Bonfiglioli



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C-A-F Series

Helical gear units C
Helical bevel gear units A
Shaft mounted gear units F

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Revisions

Refer to page 746 for the catalogue revision index. Visit www.bonfiglioli.com to search for catalogues with up-to-date revisions.

GENERAL INFORMATION

1 SYMBOLS AND UNITS OF MEASURE

Symbols	Units of Measure	Description
$A_{N\ 1,2}$	[lbs]	Permissible axial force
f_s	–	Service factor
f_T	–	Thermal factor
f_{TP}	–	Temperature factor
i	–	Gear ratio
I	–	Cyclic duration factor
J_C	[lb•ft^2]	Mass moment of inertia to be driven
J_M	[lb•ft^2]	Motor mass moment of inertia
J_R	[lb•ft^2]	Mass moment of inertia for the gear unit
K	–	Mass acceleration factor
K_r	–	Transmission element factor
$T_{1,2}$ $M_{1,2}$	[lb•in] [Nm]	Torque
$T_{c\ 1,2}$ $M_{c\ 1,2}$	[lb•in] [Nm]	Calculated torque
$T_{n\ 1,2}$ $M_{n\ 1,2}$	[lb•in] [Nm]	Rated torque
$T_{r\ 1,2}$ $M_{r\ 1,2}$	[lb•in] [Nm]	Torque demand
$n_{1,2}$	[rpm]	Speed

Symbols	Units of Measure	Description
$P_{1,2}$	[hp]	Power
$P_{N\ 1,2}$	[hp]	Rated power
$P_{R\ 1,2}$	[hp]	Power demand
$R_{C\ 1,2}$	[lbs]	Calculated radial force
$R_{N\ 1,2}$	[lbs]	Permissible overhung load
S	–	Safety factor
t_a	[°C/°F]	Ambient temperature
t_s	[°C/°F]	Surface temperature
t_o	[°C/°F]	Oil temperature
t_f	[min]	Work time under constant load
t_r	[min]	Rest time
η_d	–	Dynamic efficiency
η_s	–	Static efficiency
φ	[']	Output shaft angular backlash (with locked input shaft)

$_1$ value applies to input shaft

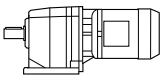
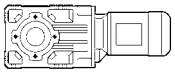
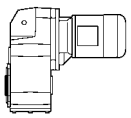
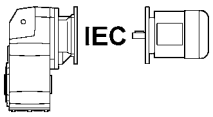
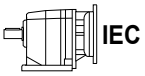
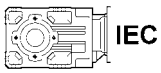
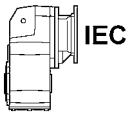
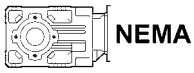
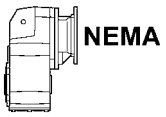
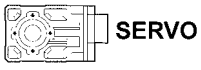
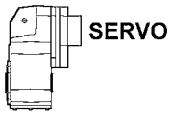
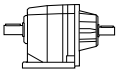
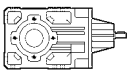
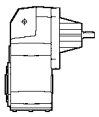
$_2$ value applies to output shaft

The symbol shows the page the information can be sorted from.

This symbol refers to the angle the overhung load applies (viewing from drive end).

IMPORTANT
This symbol indicates important technical information.

Symbol refers to weight of gearmotors and speed reducers.
Figure for gearmotors incorporates the weight of the 4-pole motor and for life lubricated units, where applicable, the weight of the oil.

Series C	Series A	Series F	
			Gearmotor with compact motor.
			Gearmotor with IEC motor.
			Gear unit with IEC motor interface.
			Gear unit with NEMA motor interface.
			Gear unit with servomotor input adapter.
			Speed reducer with solid input shaft.

2 ALLOWED TEMPERATURE LIMITS

Symbols	Description / Condition	Value (*)	
		Synthetic Oil	Mineral Oil
t_a	Ambient temperature		
$t_{au\ min}$	Minimum operating ambient temperature	**- 30°C [-22°F]**	**-10°C [+14°F]**
$t_{au\ Max}$	Maximum operating ambient temperature	**+50°C [+122°F]**	**+40°C [+104°F]**
$t_{as\ min}$	Minimum storage ambient temperature	**-40°C [-40°F]**	**-10°C [+14°F]**
$t_{as\ Max}$	Maximum storage ambient temperature	**+50°C [+122°F]**	**+50°C [+122°F]**
t_s	Surface temperature		
$t_{s\ min}$	Minimum gearbox surface temperature starting with partial load (#)	**-25°C [-13°F]**	**-10°C [+14°F]**
$t_{sc\ min}$	Minimum gearbox surface temperature starting with full load	**-10°C [+14°F]**	**-5°C [+23°F]**
$t_{s\ Max}$	Maximum casing surface temperature during continuous operation (measured next to the gearbox input)	**+100°C [+212°F]**	**+100°C** (@) **[+212°F]**
t_o	Oil temperature		
$t_{o\ Max}$	Maximum oil temperature during continuous operation	**+95°C [+203°F]**	**+95°C** (@) **[+203°F]**

(*) = Refer to the table “Selection of the optimal oil viscosity” for further information about minimum and maximum values of different oil viscosity. For values of t_a < -20°C [+70°F] and t_s, t_o > 80 °C [+176°F], choose (as permitted in the product configuration stage) the sealing type of the most suitable material to the type of application. If needed contact Bonfiglioli Technical Service.

(@) = Continuous operation it is not advised if t_s and t_o range is 80°C [+176°F] to 95 °C [+203°F].

(#) = For full load start-up it is recommended to ramp-up and provide for greater absorption of the motor. If needed, contact Bonfiglioli Technical Service.

3 TORQUE

3.1 Rated torque T_{n2} [lb•in]

The torque that can be transmitted continuously through the output shaft, with the gear unit operated under a service factor $f_s = 1$.
Rating is speed sensitive.

3.2 Required torque T_{r2} [lb•in]

The torque demand based on application requirement.
It must always be equal to or less than torque T_{n2} the gearbox under study is rated for.

3.3 Calculated torque T_{c2} [lb•in]

Computational torque value to be used when selecting the gearbox. It is calculated considering the required torque T_{r2} and service factor fs , as per the equation here after:

$$T_{c2} = T_{r2} \cdot f_s < T_{n2} \quad (1)$$

4 POWER

4.1 Rated power P_{n1} [hp]

In the gearbox selection charts this is the power applicable to input shaft, based on input speed n_1 and corresponding to service factor $f_s = 1$.

5 THERMAL CAPACITY P_t [hp]

P_t is the power that can be transmitted through the gear unit, under a continuous duty and an ambient temperature of 20 °C [70 °F], without resulting into damage of the inner parts or degradation of the lubricant properties. Refer to chart (A1) for specific hp ratings. In case of intermittent duty, or an operating ambient temperature other than the rated 20°C [70 °F], the P_t value should be adjusted through the factor f_t , obtained from chart (A2), as per the following equation: $P_t' = P_t \times f_t$

Gear units featuring more than 2 reductions and/or a gear ratio greater than i = 45 do not normally require the thermal limit to be checked as in these cases the thermal rating usually exceeds the mechanical rating.

(A 1)

P_t [hp] 20 °C [70 °F]		
	n_1 = 1200 rpm	n_1 = 1800 rpm
C 05 2	—	—
C 12 2	—	—
C 22 2	—	—
C 32 2	—	6.9
C 36 2	8.7	8.1
C 41 2	10.7	9.9
C 51 2	14.8	13.6
C 61 2	18.8	17.3
C 70 2	28	26
C 80 2	43	40
C 90 2	58	54
C 100 2	79	72

P_t [hp] 20 °C [70 °F]		
	n_1 = 1200 rpm	n_1 = 1800 rpm
A 05 2	2.7	2.5
A 10 2	2.8	2.6
A 20 2	8.0	7.8
A 30 2	10.7	10.2
A 35 2	12.7	12.2
A 41 2	15.4	14.7
A 50 2	27	26
A 55 2	28	27
A 60 2	36	35
A 70 3	42	39
A 80 3	59	55
A 90 3	86	80

P_t [hp] 20 °C [70 °F]		
	n_1 = 1200 rpm	n_1 = 1800 rpm
F 10 2	5.1	4.7
F 20 2	12.2	11.2
F 25 2	13.7	12.6
F 31 2	15.7	14.5
F 41 2	19.2	17.7
F 51 2	29	26
F 60 3	35	32
F 70 3	49	45
F 80 3	70	64
F 90 3	101	92

(A 2)

f_t					
t_a °C [°F]	Continuous duty	Intermittent duty			
		Degree of intermittence [I]			
		80%	**60%**	**40%**	**20%**
40 [105]	0.80	1.1	1.3	1.5	1.6
30 [85]	0.85	1.3	1.5	1.6	1.8
20 [70]	1.0	1.5	1.6	1.8	2.0
10 [50]	1.15	1.6	1.8	2.0	2.3

Where cyclic duration factor (I)% is the relationship of operating time under load t_f to total time ($t_f + t_r$) expressed as a percentage.

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \qquad (2)$$

The condition to be verified is:

$$P_{r1} \leq P_t \times f_t \qquad (3)$$

6 EFFICIENCY

6.1 Dynamic efficiency η_d

Obtained from the relationship of delivered power P_2 to input power P_1 , according to the following equation:

$$\eta_d = \frac{P_2}{P_1} \cdot 100 \qquad [\%] \qquad (4)$$

(A 3)

	2 x	**3 x**	**4 x**
η_d	95%	93%	90%

	2 x	**3 x**	**4 x**
η_d	94%	91%	89%

	2 x	**3 x**	**4 x**
η_d	95%	93%	90%

7 GEAR RATIO i

The value for the gear ratio is referred to with the letter [i] and calculated through the relationship of the input speed n_1 to the output speed n_2:

$$i = \frac{n_1}{n_2} \quad (5)$$

The gear ratio is usually a decimal number which in this catalogue is truncated at one digit after the comma (no decimals for i > 1000).
If interested in knowing the exact value see also chapters “EXACT RATIOS”.

8 ANGULAR VELOCITY

8.1 Input speed n_1 [rpm]

The speed is related to the prime mover selected. Catalogue values refer to speed of single speed motors that are common in the industry.
If the gearbox is driven by an external transmission it is recommended to operate it with a speed of 1800 rpm, or lower, in order to optimise operating conditions and lifetime.
Higher input speeds are permitted, however in this case consider that torque rating T_{n2} is affected adversely.
Please consult a Bonfiglioli representative.

8.2 Output speed n_2 [rpm]

The output speed value n_2 is calculated from the relationship of input speed n_1 to the gear ratio i, as per the following equation:

$$n_2 = \frac{n_1}{i} \quad (6)$$

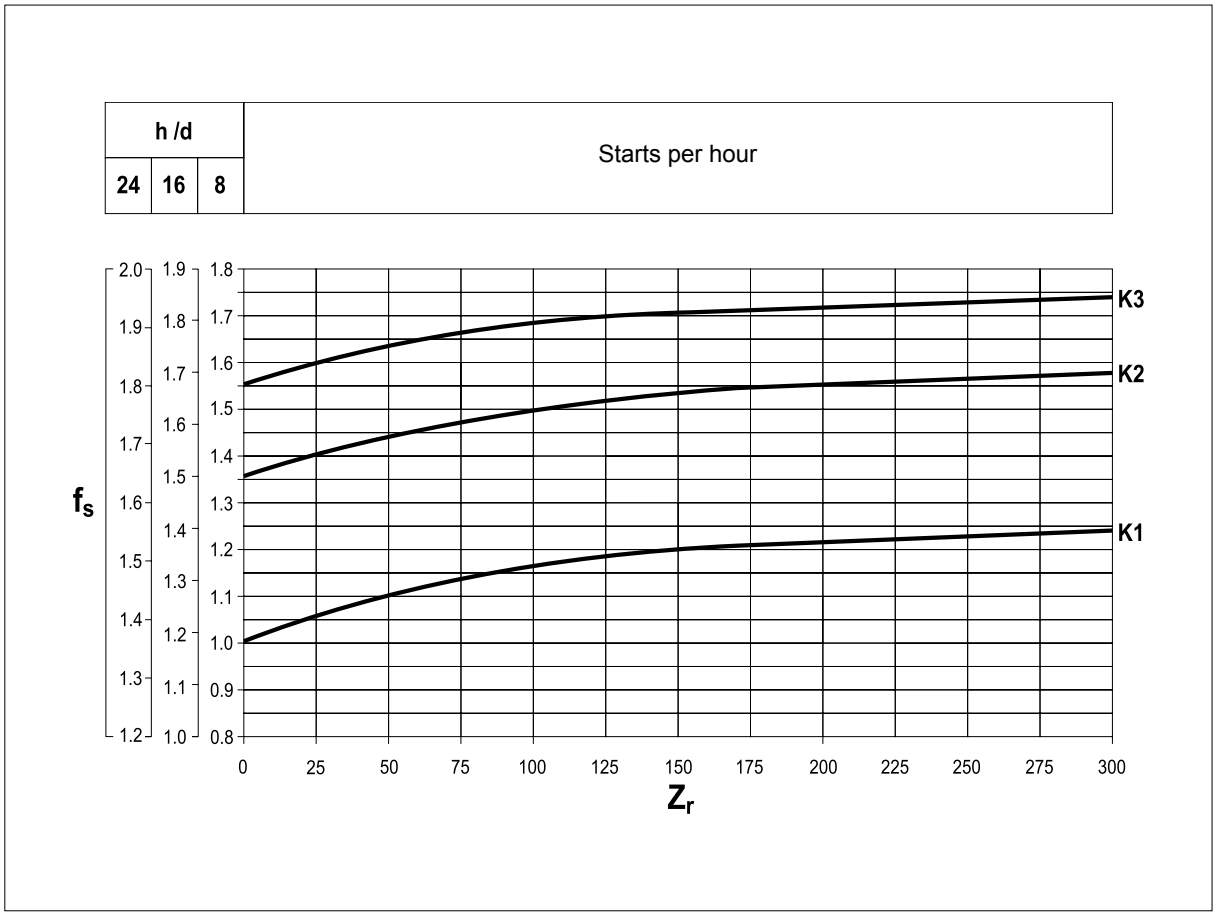
9 MOMENT OF INERTIA J_r [lb•ft^2]

Moments of inertia specified in the catalogue refer to the gear unit input axis.
They are therefore related to motor speed, in the case of direct motor mounting.

10 SERVICE FACTOR f_s

This factor is the numeric value describing reducer service duty. It takes into consideration, with unavoidable approximation, daily operating conditions, load variations and overloads connected with reducer application.
In the graph (A4) below, after selecting proper “daily working hours” column, the service factor is given by intersecting the number of starts per hour and one of the K1, K2 or K3 curves.
K_ curves are linked with the service nature (approximately: uniform, medium and heavy) through the acceleration factor of masses K, connected to the ratio between driven masses and motor inertia values.
Regardless of the value given for the service factor, we would like to remind that in some applications, which for example involve lifting of parts, failure of the reducer may expose the operators to the risk of injuries. If in doubt, please contact our Technical Service Department.

(A 4)



Service factors listed here under are empirical values based on AGMA and ISO specifications as well as our experience for use in common applications. They apply for state of the art-designed driven machines and normal operating conditions.

Application	≤ 10 hours/day	> 10 hours/day
AGITATORS, MIXERS		
Pure liquids	1.25	1.50
Liquids and solids	1.25	1.50
Liquids - variable density	1.50	1.75
BLOWERS		
Centrifugal	1.00	1.25
Lobe	1.25	1.50
Vane	1.25	1.50
CLARIFIERS	1.00	1.25
CLAY WORKING MACHINERY		
Brick press	1.75	2.00
Briquette machine	1.75	2.00
Pug mill	1.25	1.50
COMPACTORS	2.00	2.00
COMPRESSORS		
Centrifugal	1.25	1.50
Lobe	1.25	1.50
Reciprocating, multi-cylinder	1.50	1.75
Reciprocating, single-cylinder	1.75	2.00
CONVEYORS - GENERAL PURPOSE		
Uniformly loaded or fed	1.15	1.25
- Heavy duty		
Not uniformly fed	1.25	1.50
- Reciprocating or shaker	1.75	2.00
CRANES (*)		
Dry dock		
Main hoist	2.50	2.50
Auxiliary hoist	2.50	3.00
Boom hoist	2.50	3.00
Slewing Drive	2.50	3.00
Traction Drive	3.00	3.00

Application	≤ 10 hours/day	> 10 hours/day
Trolley Drive		
Gantry Drive	3.00	3.00
Traction Drive	2.00	2.00
Industrial duty		
Main hoist	2.50	3.00
Auxiliary hoist	2.50	3.00
Bridge and	3.00	3.00
Trolley travel	3.00	3.00
CRUSHER		
Stone or ore	2.00	2.00
DREDGES		
Conveyors	1.25	1.50
Cutter head drives	2.00	2.00
Screen drives	1.75	2.00
Stackers	1.25	1.50
Winches	1.25	1.50
ELEVATORS		
Bucket	1.25	1.50
Centrifugal discharge	1.15	1.25
Escalators	1.15	1.25
Freight	1.25	1.50
Gravity discharge	1.15	1.25
EXTRUDERS		
General	1.50	1.50
Plastics		
Variable speed drive	1.50	1.50
Fixed speed drive	1.75	1.75
Rubber		
Continuous screw operation	1.75	1.75
Intermittent screw operation	1.75	1.75
FANS		
Centrifugal	1.00	1.25
Cooling towers	2.00	2.00

(*) - Indication of service factor based on FEM 1.001 classification available upon request. Consult factory.

- Hoists for passengers lift: charted **values not applicable**. Consult factory.
- Application with service factor < 1.5, it is recommended the use of oil ISO VG 320

Application	≤ 10 hours/day	> 10 hours/day
Forced draft	1.25	1.25
Induced draft	1.50	1.50
Industrial and mine	1.50	1.50
FEEDERS		
Apron	1.25	1.50
Belt	1.15	1.50
Disc	1.00	1.25
Reciprocating	1.75	2.00
Screw	1.25	1.50
FOOD INDUSTRY		
Dough mixer	1.25	1.50
Meat grinders	1.25	1.50
Slicers	1.25	1.50
GENERATORS AND EXCITERS	1.00	1.25
HAMMER MILLS	1.75	2.00
HOISTS (*)		
Heavy duty	1.75	2.00
Medium duty	1.25	1.50
Skip hoist	1.25	1.50
LUMBER INDUSTRY		
Barkers - spindle feed	1.25	1.50
Main drive	1.75	1.75
Conveyors - burner	1.25	1.50
Main or heavy duty	1.50	1.50
Main log	1.75	2.00
Re-saw, merry-go-round	1.25	1.50
Conveyors		
Slab	1.75	2.00
Transfer	1.25	1.50
Chains		
Floor	1.50	1.50
Green	1.50	1.75
Cut-off saws		
Chain	1.50	1.75
Drag	1.50	1.75
Debarking drums	1.75	2.00
Feeds		
Edger	1.25	1.50
Gang	1.75	1.75
Trimmer	1.25	1.50
Log deck	1.75	1.75

Application	≤ 10 hours/day	> 10 hours/day
Log hauls - incline - weel type	1.75	1.75
Log turning devices	1.75	1.75
Planer feed	1.25	1.50
Planer tilting hoists	1.50	1.50
Rolls - live-off brg. - roll cases	1.75	1.75
Sorting table	1.25	1.50
Tipple hoist	1.25	1.50
Transfers		
Chain	1.50	1.75
Craneways	1.50	1.75
Tray drives	1.25	1.50
Veneer lathe drives	1.25	1.50
METAL MILLS		
Slab pushers	1.50	1.50
Shears	2.00	2.00
Wire drawing	1.25	1.50
Wire winding machine	1.50	1.50
MILLS, ROTARY TYPE		
Ball and rod	2.00	2.00
Spur ring gear	2.00	2.00
Helical ring gear	1.50	1.50
Direct connected	2.00	2.00
Cement kilns	1.50	1.50
Dryers and coolers	1.50	1.50
MIXERS		
Concrete	1.50	1.75
PAPER MILLS		
Agitator (mixer)	1.50	1.50
Agitator for pure liquors	1.25	1.25
Barking drums	2.00	2.00
Barkers - mechanical	2.00	2.00
Beater	1.50	1.50
Breaker stack	1.25	1.25
Calendar	1.25	1.25
Chipper	2.00	2.00
Chip feeder	1.50	1.50
Coating rolls	1.25	1.25
Conveyors		
Chip, bark, chemical	1.25	1.25
Log (including slab)	2.00	2.00

(*) - Indication of service factor based on FEM 1.001 classification available upon request. Consult factory.

- Hoists for passengers lift: charted **values not applicable**. Consult factory.
- Application with service factor < 1.5, it is recommended the use of oil ISO VG 320

Application	≤ 10 hours/day	> 10 hours/day
Couch rolls	1.25	1.25
Cutter	2.00	2.00
Cylinder molds	1.25	1.25
Dryers		
Paper machine	1.25	1.25
Conveyors type	1.25	1.25
Embosser	1.25	1.25
Extruder	1.50	1.50
Jordan	1.50	1.50
Kiln drive	1.50	1.50
Paper rolls	1.25	1.25
Platter	1.50	1.50
Presses - felt and suction	1.25	1.25
Pulper	2.00	2.00
Pumps - vacuum	1.50	1.50
Reel (surface type)	1.25	1.25
Screens		
Chip	1.50	1.50
Rotary	1.50	1.50
Vibrating	2.00	2.00
Size press	1.25	1.25
Super calendar	1.25	1.25
Thickener (AC motor)	1.50	1.50
Thickener (DC motor)	1.25	1.25
Washer (AC motor)	1.50	1.50
Washer (DC motor)	1.25	1.25
Wind and unwind stand	1.25	1.50
Winders (surface type)	1.25	1.25
Yankee dryers	1.25	1.25
PLASTICS INDUSTRY		
Batch mixers	1.75	1.75
Continuous mixers	1.50	1.50
Compounding mill	1.25	1.25
Calendars	1.50	1.50
Secondary processing		
Blow molders	1.50	1.50
Coating	1.25	1.25
Film	1.25	1.25
Pre-plasticizers	1.50	1.50
Rods	1.25	1.25

Application	≤ 10 hours/day	> 10 hours/day
Sheet	1.25	1.25
Tubing	1.25	1.50
PUMPS		
Centrifugal	1.15	1.25
Reciprocating		
Single acting, three or more cylinders	1.25	1.50
Double acting, two or more cylinders	1.25	1.50
Rotary		
Gear type	1.15	1.25
Lobe	1.15	1.25
Vane	1.15	1.25
RUBBER INDUSTRY		
Intensive internal mixer		
Batch mixers	1.75	1.75
Continuous mixers	1.50	1.50
Refiner - two rolls	1.50	1.50
Calendars	1.50	1.50
SAND MULLER	1.25	1.50
SEWAGE DISPOSAL EQUIPMENT		
Aerators	2.00	2.00
Chemical feeders	1.25	1.25
Dewatering screens	1.50	1.50
Scum breakers	1.50	1.50
Slow or rapid mixers	1.50	1.50
Sludge collectors	1.25	1.25
Thickeners	1.50	1.50
Vacuum filters	1.50	1.50
SCREENS		
Air washing	1.00	1.25
Rotary - stone or gravel	1.25	1.50
Travelling water intake	1.00	1.25
SUGAR INDUSTRY		
Beet slicer	2.00	2.00
Cane knives	1.50	1.50
Crushers	1.50	1.50
Mills (low speed end)	1.75	1.75
TEXTILE MACHINERY	1.25	1.50

(*) - Indication of service factor based on FEM 1.001 classification available upon request. Consult factory.

- Hoists for passengers lift: charted **values not applicable**. Consult factory.
- Application with service factor < 1.5, it is recommended the use of oil ISO VG 320

10.1 Acceleration factor of masses K

This parameter serves for selecting the right curve for the type of load.
The value is given by the following ratio:

(A 5)

$$K = \frac{J_c}{J_m} \rightarrow$$

J_c = Moment of inertia of driven masses referred to motor drive shaft

J_m = Motor moment of inertia

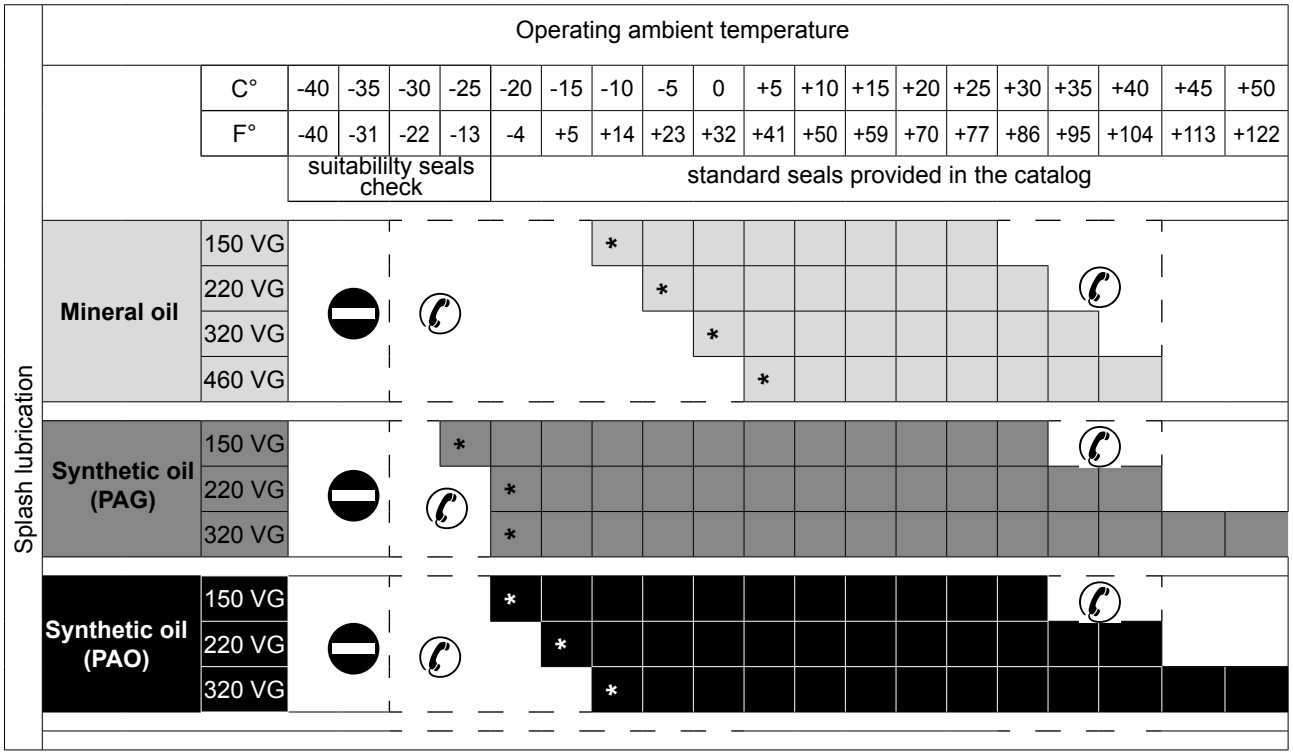
K ≤ 0.25	→ **K1**	Uniform load
0.25 < K ≤ 3	→ **K2**	Moderate shock load
3 < K ≤ 10	→ **K3**	Heavy shock load
K > 10	→	Please consult Bonfiglioli Technical Service

11 LUBRICATION

Life lubricated gearboxes do not require any periodical oil changes.
Refer to the User's Manual available at www.bonfiglioli.com for indications about checking the oil level and its replacement for other types of gearboxes. Do not mix mineral oils with synthetic oils and/or different brands. However, oil level should be checked at regular intervals and topped up as required. Check monthly if unit operates under intermittent duty, more frequently if duty is continuous.

11.1 Selection of the optimal oil viscosity (data relating to Shell Oils)

(A 6)



Recommended operating limits

Allowed operating limits.

Forbidden operating limits.

* = It is recommended to ramp-up and to provide for greater absorption of the motor.
If needed and in the event of impulse loads, contact Bonfiglioli Technical Service.

11.2 Lubrication for C, A, F, S series gearboxes

The inner parts of Bonfiglioli gear units are oil-bath and splash lubricated.
Frame sizes C 05...C 41, A 05...A 41, F 10...F 41, S 10...S 40 are supplied by the factory, or by the authorized dealers, already filled with oil.
Unless otherwise specified, units size C 51, A 50, F 51, S 50 and larger are usually supplied unlubricated at it will be the customer care to fill them with oil prior to putting them into operation.
In both cases, depending on the version, prior to putting the gear unit into operation may need to replace the closed plug used for transportation purposes with breather plug supplied with.
For the reference charts of oil plugs placement and quantity of lubricant, refer to the Installation, Operation and Maintenance Manual (available on www.bonfiglioli.com).
The “long life” poliglycol-based lubricant supplied by the factory (SHELL OMALA S4 WE 320), in the absence of contamination, does not require periodical oil changes throughout the lifetime of the gear unit.

12 SELECTION

Some fundamental data are necessary to assist the correct selection of a gearbox or gearmotor. The table below (A8) briefly sums up this information.
To simplify selection, fill in the table and send a copy to our Technical Service which will select the most suitable drive unit for your application.

(A 7)

	Type of application	
P_{r2}	Output power at n_2 max	.....hp
P_{r2}'	Output power at n_2 min	.....hp
T_{r2}	Output torque at n_2 max	.....lb•in
n_2	Max.output speed	.....rpm
n_2'	Min.output speed	.....rpm
n_1	Max.input speed	.....rpm
n_1'	Min.input speed	.....rpm
R_{c2}	Radial load on output shaft	.....lbs
x_2	Load application distance (*)	.....in
	Load orientation at output	..... 
	Output shaft rotation direction (CW-CCW) (**)	.....
R_{c1}	Radial load on input shaft	.....lbs
x_1	Load application distance (*)	.....in
	Load orientation at input	..... 
	Input shaft rotation direction (CW-CCW) (**)	.....
A_{c2}	Thrust load on output shaft (+/–)(***)	.....lbs

A_{c1}	Thrust load on input shaft (+/–)(***)	.....lbs
J_c	Moment of inertia of the load	.....lb•ft^2
t_a	Ambient temperature	.....C° [°F]
	Altitude above sea level	.....m
	Duty type to IEC norms	S...../.....%
Z	Starting frequency	.....1/h
	Motor voltage	V
	Brake voltage	V
	Frequency	.....Hz
T_b	Brake torque	.....lb•in
	Motor protection degree	IP.....
	Insulation class	.....

(*) Distance x1-2 is between force application point and shaft shoulder (if not indicated the force acting at mid-point of the shaft extension will be considered).

(**) CW = clockwise;
CCW = counterclockwise

(***) + = push
– = pull

12.1 Selection of a gearmotor

a) Determine service factor f_s according to type of duty (factor K), number of starts per hour Z_r and hours of operation.

b) From values of torque T_{r2}, speed n_2 and efficiency η_d the required input power can be calculated from the equation:

$$P_{r1} = \frac{T_{r2} \cdot n_2}{63{,}025 \cdot \eta_d} \text{ [hp]} \quad (7)$$

Value of η_d for the captioned gear unit can be sorted out from paragraph 6.

c) Consult the gearmotor selection charts and locate the table corresponding to normalised power P_n:

$$P_n \geq P_{r1} \quad (8)$$

Unless otherwise specified, power P_n of motors indicated in the catalogue refers to continuous duty S1. For motors used in conditions other than S1, the type of duty required by reference to CEI 2-3/IEC 34-1 Standards must be mentioned.
For duties from S2 to S8 in particular and for motor frame 132 or smaller, extra power output can be obtained with respect to continuous duty.
Accordingly the following condition must be satisfied:

$$P_n \geq \frac{P_{r1}}{f_m} \quad (9)$$

The adjusting factor f_m can be obtained from table (A9).

12.2 Intermittence ratio

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (10)$$

t_f = work time at constant load
t_r = rest time

(A 8)

	DUTY						
	S2			**S3***			**S4 - S8**
	Cycle duration [min]			Cyclic duration factor (I)			Please contact us
	10	**30**	**60**	**25%**	**40%**	**60%**	
f_m	1.35	1.15	1.05	1.25	1.15	1.1	

* Cycle duration, in any event, must be 10 minutes or less. If it is longer, please contact our Technical Service.

Next, refer to the appropriate $\mathbf{P_n}$ section within the gearmotor selection charts and locate the unit that features the desired output speed $\mathbf{n_2}$, or closest to, along with a safety factor **S** that meets or exceeds the applicable service factor $\mathbf{f_s}$.

The safety factor is so defined:

$$S = \frac{T_{n2}}{T_2} = \frac{P_{n1}}{P_1} \quad (11)$$

As standard, gear and motor combinations are implemented with 2, 4 and 6 pole motors, 60 Hz supplied.
Should the drive speed be different from 3600, 1800 or 1200 rpm, base the selection on the gear unit nominal rating.

12.3 Selection of speed reducer and gearbox with a motor adapter

a) Determine service factor f_s.

b) Assuming the required output torque for the application T_{r2} is known, the calculation torque can be then defined as:

$$T_{c2} = T_{r2} \cdot f_s \quad (12)$$

c) The gear ratio is calculated according to requested output speed n_2 and drive speed n_1:

$$i = \frac{n_1}{n_2} \quad (13)$$

Once values for T_{c2} and i are known consult the rating charts under the appropriate input speed n_1 and locate the gear unit that features the gear ratio closest to [i] and at same time offers a rated torque value T_{n2} so that:

$$T_{n2} \geq T_{c2} \quad (14)$$

If a NEMA or IEC normalized motor flange must be fitted check geometrical compatibility with the gear unit at paragraph “MOTOR AVAILABILITY”.

13 VERIFICATION

After the selection of the speed reducer, or gearmotor, is complete it is recommended that the following verifications are conducted:

a) Thermal capacity
Make sure that the thermal capacity of the gearbox is equal to or greater than the power required by the application according to equation (3) on page 7.
If this condition is not verified, select a larger gearbox or apply a forced cooling system.

b) Maximum torque
The maximum torque (intended as instantaneous peak load) applicable to the gearbox must not, in general, exceed 200% of rated torque T_{n2}. Therefore, check that this limit is not exceeded, using suitable torque limiting devices, if necessary.
For three-phase double speed motors, it is important to pay attention to the switching torque which is generated when switching from high to low speed, because it could be significantly higher than maximum torque.
A simple, economical way to minimize overloading is to power only two phases of the motor during switch-over (power-up time on two phases can be controlled with a time-relay):

$T_{g2} = 0.5 \cdot T_{g3}$
T_{g2} = Switching torque with two-phase power-up
T_{g3} = Switching torque with three-phase power-up

We recommend, in any event, to contact our Technical Service.

c) Radial loads
Make sure that radial forces applying on input and/or output shaft are within permittend catalogue values.
If they were higher consider designing a different bearing arrangement before switching to a larger gear unit.
Catalogue values for rated overhung loads refer to mid-point of shaft under study.
Should application point of the overhung load be localised further out the revised loading capability must be adjusted as per instructions given in this manual.
Please refer to the paragraphs relating to radial loads.

d) Thrust loads
Actual thrust load must be found within 20% of the equivalent overhung load capacity.
Should an extremely high, or a combination of radial and axial load apply, consult Bonfiglioli Technical Service.

e) Starts per hour
For duties featuring a high number of switches the actual starting capability in loaded condition [Z] must be calculated.
Actual number of starts per hour must be lower than value so calculated.

14 INSTALLATION

The following installation instructions must be observed:

a) Make sure that the gearbox is correctly secured to avoid vibrations.
If shocks or overloads are expected, install hydraulic couplings, clutches, torque limiters, etc.

b) Before being paint coated, the machined surfaces and the outer face of the oil seals must be protected to prevent paint drying out the rubber and jeopardising the sealing function.

c) Parts fitted on the gearbox output shaft must be machined to ISO H7 tolerance to prevent interference fits that could damage the gearbox itself.
Further, to mount or remove such parts, use suitable pullers or extraction devices using the tapped hole located at the top of the shaft extension.

d) Mating surfaces must be cleaned and treated with suitable protective products before mounting to avoid oxidation and, as a result, seizure of parts.

e) Prior to putting the gear unit into operation make sure that the equipment that incorporates the same complies with the current revision of the Machines Directive 2006/42/EC.

f) Before starting up the machine, make sure that oil level conforms to the mounting position specified for the gear unit and the viscosity is adequate (refer to the User's Manual available at www.bonfiglioli.com).

g) For outdoor installation provide adequate guards in order to protect the drive from rainfalls as well as direct sun radiation.

14.1 Fitting servomotors to gear heads featuring a clamping device (adapter type SC)

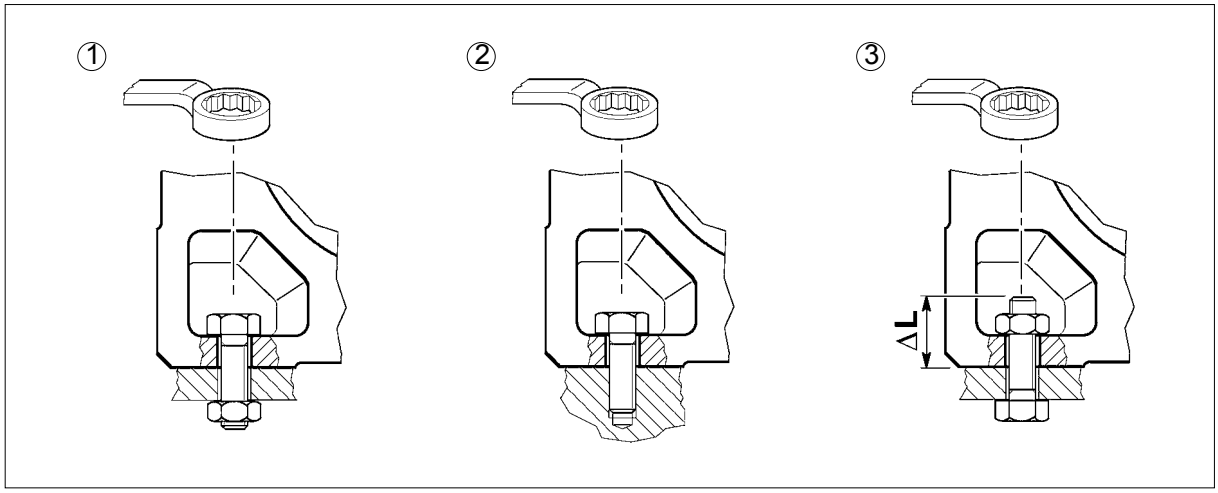
Turn the clamping device until its slot is aligned to those that are milled on the reducer input shaft. If the motor shaft features a key, this must be removed and the relevant keyway must also be aligned with the slots of clamping device and gear head input shaft, prior to inserting the servomotor into site. The keyway must be sitting on the same side as the locking screw. Tighten the bolts that hold the servomotor to the gear head, insert a torque wrench through the hole on the side of the flange and tighten the locking screw of the clamping device to the torque that is specified in the drawing section for the given adapter.

15 INSTALLATION INSTRUCTIONS

Schemes in table (A10) show the 3 possible installation patterns for A gear units to the machine frame. For each of these circumstances, table (A11) indicates exagonal head screw sizes to be used. Besides, to facilitate the installation, we suggest to use a wrench of the type shown in table (A10).

16 STORAGE

(A 9)



(A 10)

	Bolt type			
	①	②	③	**ΔL** [*mm* / in]
A 05	*M8x22*	*M8x20*	*M8x ...*	*22* / 0.866
A 10	*M8x25*	*M8x20*	*M8x …*	*20* / 0.787
A 20	*M8x25*	*M8x20*	*M8x …*	*20* / 0.787
A 30	*M10x30*	*M10x25*	*M10x …*	*25* / 0.984
A 35	*M10x30*	*M10x25*	*M10x ...*	*25* / 0.984
A 41	*M12x35*	*M12x30*	*M12x …*	*30* / 1.181

	Bolt type			
	①	②	③	**ΔL** [*mm* / in]
A 50	*M14x45*	*M14x40*	*M14x …*	*35* / 1.378
A 55	*M14x40*	*M14x40*	*M14x ...*	*35* / 1.378
A 60	*M16x50*	*M16x45*	*M16x …*	*40* / 1.575
A 70	*M20x60*	*M20x55*	*M20x …*	*45* / 1.772
A 80	*M24x70*	*M24x65*	*M24x …*	*55* / 2.165
A 90	*M24x90*	*M24x80*	*M24x …*	*65* / 2.559

Observe the following instructions to ensure correct storage of the products:

a) Do not store outdoors, in areas exposed to weather or with excessive humidity.

b) Always place boards, wood or other material between the products and the floor.
The gearboxes should not have direct contact with the floor.

c) In case of long-term storage all machined surfaces such as flanges, shafts and couplings must be coated with a suitable rust inhibiting product (Mobilarma 248 or equivalent).

Furthermore gear units must be placed with the fill plug in the highest position and filled up with oil. Before putting the units into operation the appropriate quantity, and type, of oil must be restored (refer to the User's Manual available at www.bonfiglioli.com)..

17 CONDITIONS OF SUPPLY

Gear units are supplied as follows:

a) configured for installation in the mounting position specified when ordering;

b) tested to manufacturer specifications;

c) mating machined surfaces come unpainted;

d) nuts and bolts for mounting motors are provided;

e) shafts are protected during transportation by plastic caps;

f) supplied with lifting lug (where applicable).

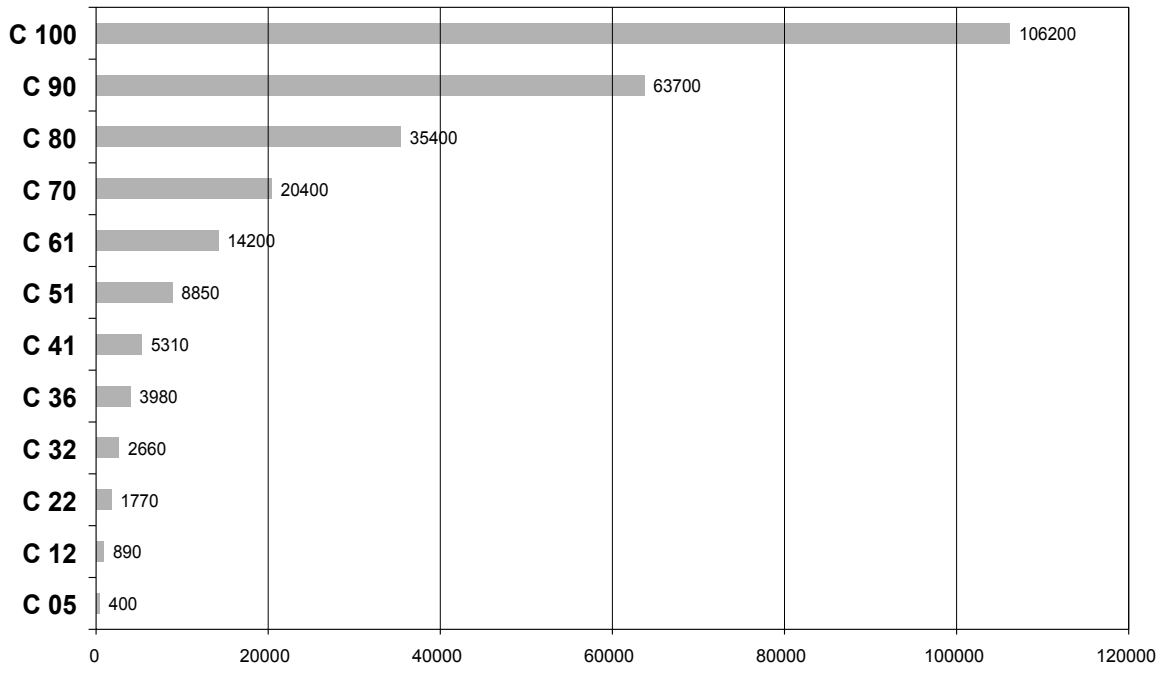
18 PAINT SPECIFICATIONS

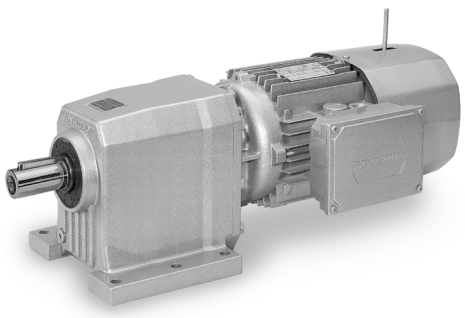
Specifications for paint applied to gearboxes (where applicable) may be obtained from the branches or dealers that supplied the units.

19 DESIGN FEATURES

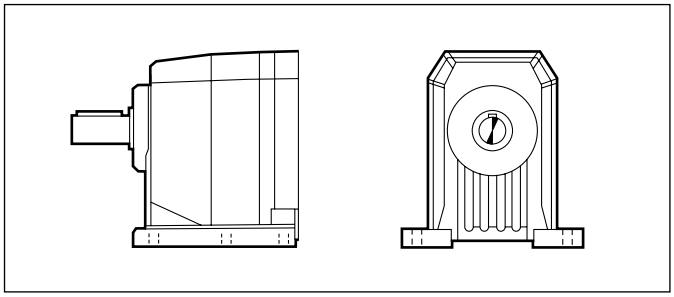
The main design characteristics are:
- modularity
- space effective
- universal mounting
- high efficiency
- quite operation
- gears in hardened and case-hardened steel
- bare aluminium housing for sizes 05. 12. 22 and 32. Larger frame sizes come in sturdy cast iron housings
- input and output shafts from high grade steel.

(B 11)





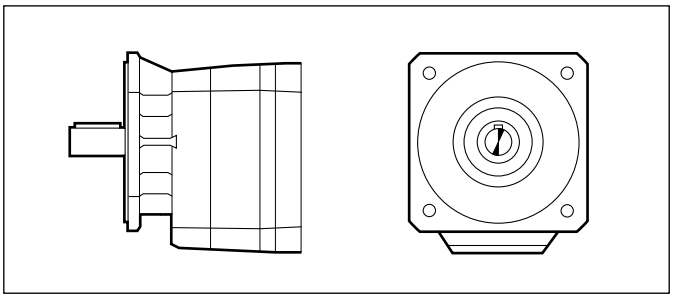
20 VERSIONS



P - NP

Foot mount

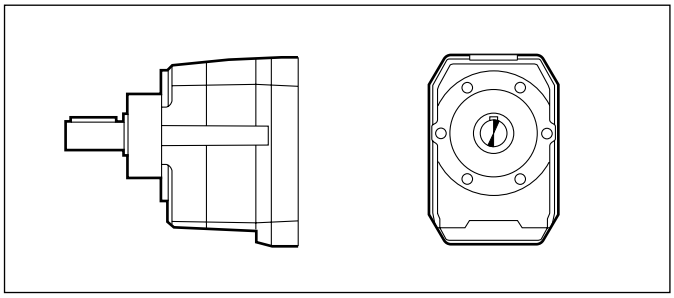
C 05 ... C 100



F - NF

Flange mount

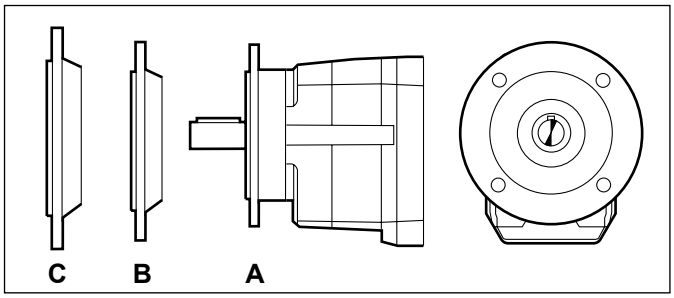
C 05 ... C 32
C 70 ... C 100



U - NU

UNIBOX- universal housing

C 12 ... C 61



UF - NUF

UNIBOX bolt-on flange

C 12 ... C 61

21 DESIGNATION

GEAR UNIT

C 32 2 NF 52.4 S1 B5 .....

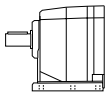
OPTIONS

MOUNTING POSITION

C...P: **B3** (Standard), B6, B7, B8, V5, V6

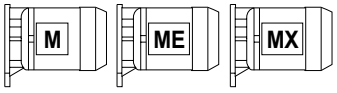
C...F/U/UF: **B5** (Standard), B51, B53, B52, V1, V3

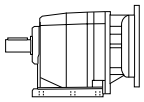
INPUT CONFIGURATION



(C05...C100)

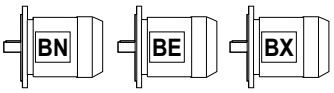
S05 ... S5

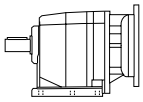




(C12...C100)

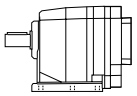
IEC_ **P63 ... P180**





(C12...C100)

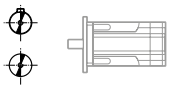
NEMA_ **N56C ... N320TC**

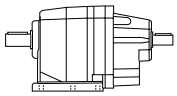


(C12...C61)

SK_

SC_



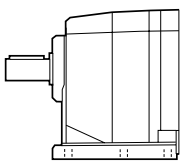


(C12...C100)

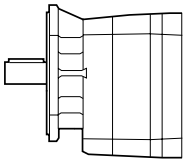
HS **NHS**

GEAR RATIO

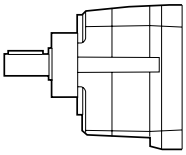
VERSION



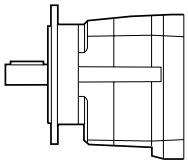
P - NP
(C05...C100)



F - NF
(C05...C32)
(C70...C100)



U - NU
(C12...C61)

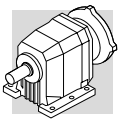


UFA - NUFA
UFB - NUFB
UFC - NUFC
(C12...C61)

REDUCTIONS
2, **3**, **4**

GEAR FRAME SIZE
05, **12**, **22**, **32**, **36**, **41**, **51**, **61**, **70**, **80**, **90**, **100**

TYPE: **C** = helical in-line gear units



MOTOR | BRAKE

M 1LA 4 230/400-60 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPTIONS

BRAKE SUPPLY

RECTIFIER TYPE
AC/DC
NB, **SB**, **NBR**, **SBR**

BRAKE HAND RELEASE
R, **RM**

BRAKE TORQUE (specify Nm!)
[**1 ft•lb = 1.356 Nm**]

BRAKE TYPE
FD (d.c. brake)
FA (a.c. brake)

TERMINAL BOX POSITION
W (default), **N**, **E**, **S**

MOTOR MOUNTING
— (compact motor)
B5 (IEC - motor)

INSULATION CLASS
CL F standard
CL H option

DEGREE OF PROTECTION
IP55 standard (**IP56** option)
IP54, **IP55** brake motor

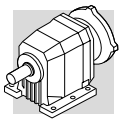
VOLTAGE - FREQUENCY

POLE NUMBER
2, **4**, **6**

MOTOR SIZE
0B ... 5LA (compact motor)
63A ... 280M (IEC motor)

MOTOR TYPE
MX= compact 3-phase, class IE3 **ME**= compact 3-phase, class IE2 **M** = compact 3-phase
BX = IEC 3-phase, class IE3 **BE** = IEC 3-phase, class IE2 **BN** = IEC 3-phase

NEMA motors to be specified thru their ordering numbers



21.1 Gearbox options

SO
Gear units C05. C12. C22. C32. C36. C41. usually factory filled with oil. to be supplied unlubricated.

DL
The output shaft features a dual oil seal.

DV
Dual oil seals on input shaft. (Only available for integral gearmotors).

VV
Fluoro elastomer oil seal on input shaft.

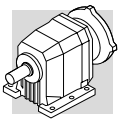
PV
Both input and output shafts feature Fluoro elastomer oil seals.

RB
Gear units C12. C22. C32. C36. C41. C51 and C61. usually supplied with standard values of angular backlash. are. in this case. supplied with reduced angular backlash values.
The following table specifies the corresponding figures of angular backlash.

(B 12)

		standard			RB	
C 05	i =	5.5 ; 9.3 ; 15.6 ; 27.1	6.7 ; 7.4 ; 11.2 ; 12.5 ; 18.9 ; 21.0 ; 32.8_44.7		—	
	φ [']	**34**	**29**			
C 12	i =	2.8_6.2	7.6_66.2		2.8_6.2	7.6_66.2
	φ [']	**55**	**29**		**—**	**13**
C 22	i =	2.7_6.1	7.1_261.0		2.7_6.1	7.1_261.0
	φ [']	**47**	**25**		**—**	**12**
C 32	i =	2.9_6.3	7.2_274.7		2.9_6.3	7.2_274.7
	φ [']	**39**	**21**		**—**	**11**
C 36	i =	2.7_5.8	6.8_19.0	22.1_848.5	2.7_5.8	6.8_848.5
	φ [']	**37**	**20**	**17**	**—**	**10**
C 41 2	i =	2.7_6.0	6.4_44.8	—	2.7_6.0	6.4_44.8
	φ [']	**34**	**17**		**—**	**9**
C 41 3/4	i =	**—**	**—**	28.5_855.5	**—**	28.5_855.5
	φ [']			**15**		**9**
C 51 2	i =	2.6_5.6	7.0_57.0	—	2.6_5.6	7.0_57.0
	φ [']	**32**	**15**		**—**	**8**
C 51 3/4	i =	**—**	**—**	21.8_884.9	**—**	21.8_884.9
	φ [']			**13**		**8**
C 61 2	i =	2.8_6.0	6.7_38.0	—	2.8_6.0	6.7_38.0
	φ [']	**27**	**13**		**12**	**7**
C 61 3/4	i =	**—**	**—**	26.8_796.1	**—**	26.8_796.1
	φ [']			**11**		**7**
C 70	i =	4.6_34.7	41.3_1476		—	
	φ [']	**18**	**20**			
C 80	i =	5.6_39.1	43.5_1481		—	
	φ [']	**16**	**18**			
C 90	i =	5.2_35.1	39.4_1240		—	
	φ [']	**16**	**18**			
C 100	i =	4.9_29.6	34.3_1081		—	
	φ [']	**14**	**16**			

For the delivery timeframe contact the Bonfiglioli's sales network



SURFACE PROTECTION

When no specific protection class is requested. the painted (ferrous) surfaces of gearboxes are protected to at least corrosivity class C2 (UNI EN ISO 12944-2). For improved resistance to atmospheric corrosion. gearboxes can be delivered with **C3** and **C4** surface protection. obtained by painting the complete gearbox.

(B 13)

SURFACE PROTECTION	Typical environments	Maximum surface temperature	Corrosivity class according to UNI EN ISO 12944-2
C3	Urban and industrial environments with up to 100% relative humidity (medium air pollution)	120°C [248 F°]	C3
C4	Industrial areas, coastal areas, chemical plant, with up to 100% relative humidity (high air pollution)	120°C [248 F°]	C4

Gearboxes with optional protection to class **C3** or **C4** are available in a choice of colours.
If no specific colour is requested (see the “PAINTING” option) gearboxes are finished in RAL 7042.
Gearboxes can also be supplied with surface protection for corrosivity class **C5** according to UNI EN ISO 12944-2. Contact our Technical Service for further details.

PAINTING

Gearboxes with optional protection to class C3 or C4 are available in the colours listed in the following table.

NOTE – “PAINTING” options can only be specified in conjunction with “SURFACE PROTECTION” options.

(B 14)

PAINTING	Colour	RAL number
RAL7042*	Traffik Grey A	7042
RAL5010	Gentian Blue	5010
RAL9005	Jet Black	9005
RAL9006	White Aluminium	9006
RAL9010	Pure White	9010
RAL7035	Light Grey	7035
RAL7001	Silver Grey	7001
RAL5015	Sky Blue	5015
RAL7037	Dusty Grey	7037
RAL5024	Pastel Blue	5024

* Gearboxes are supplied in this standard colour if no other colour is specified.

CERTIFICATES

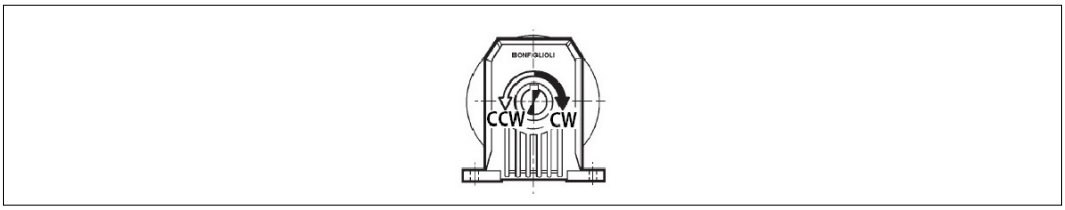
AC - Certificate of compliance
The document certifies the compliance of the product with the purchase order and the construction in conformity with the applicable procedures of the Bonfiglioli Quality System.

CC - Inspection certificate
The document entails checking on order compliance. the visual inspection of external conditions and of mating dimensions. Checking on main functional parameters in unloaded conditions is also performed along with oil seal proofing. both in static and in running conditions. Units inspected are sampled within the shipping batch and marked individually.

21.2 Motor options

AL, AR
The backstop device is available as gearmotor option for M, ME and MX motors.
When ordering the gearmotor unit, the direction of free rotation must be specified through either the AR or the AL option. The following table (B16) supports the selection of AR or AL option, based on the desired direction of free rotation at the gearbox output shaft (clockwise or counter-clockwise).

(B 15)



Option to select based on the required direction of free rotation at gearbox output shaft Valid for all Sizes. The table refers to the gearbox in mounting position B3. (CW: clockwise, CCW: counterclockwise)					
CW			**CCW**		
2x	**3x**	**4x**	**2x**	**3x**	**4x**
AR	AL	AR	AL	AR	AL

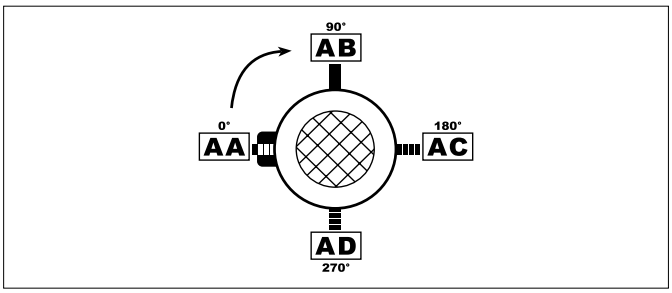
For further information on options. consult the electric motors section.

22 MOUNTING POSITION AND TERMINAL BOX ORIENTATION

Location of motor terminal box can be specified by viewing the motor from the fan side; standard location is shown in black (W).

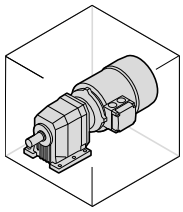
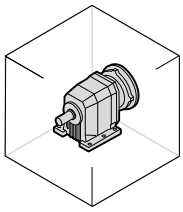
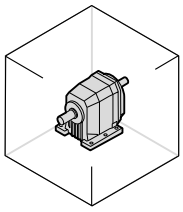
Angular position of the brake release lever.
Unless otherwise specified. brake motors have the manual device side located. 90° apart from terminal box. Different angles can be specified through the relevant options available.

(B 16)

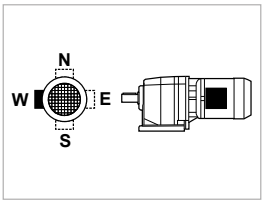


C ... P - NP

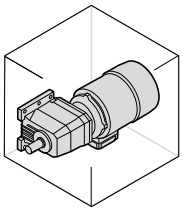
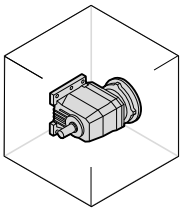
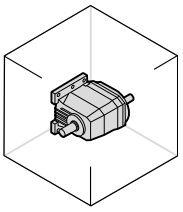
B3

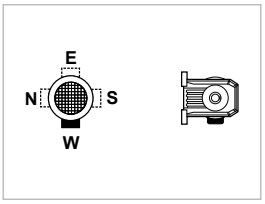
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



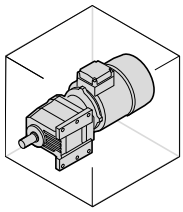
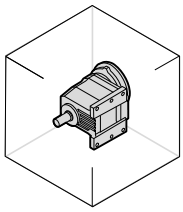
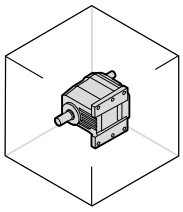
B6

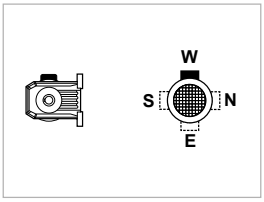
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



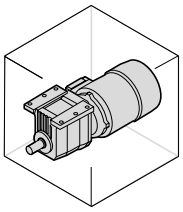
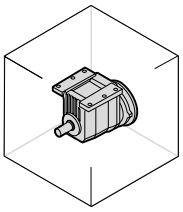
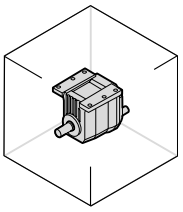
B7

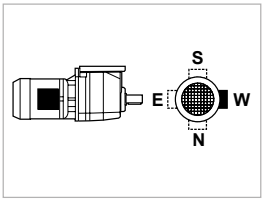
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



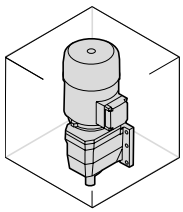
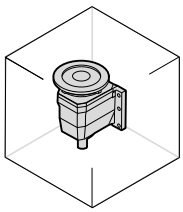
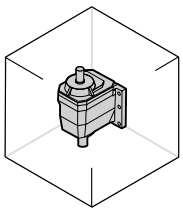
B8

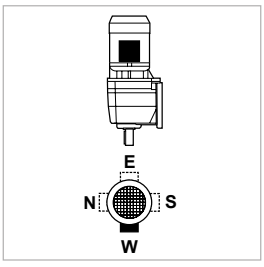
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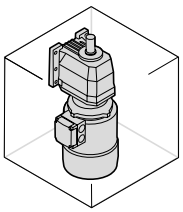
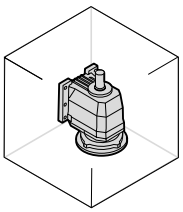
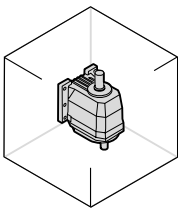
V5

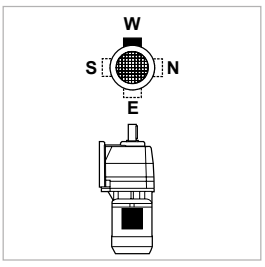
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



V6

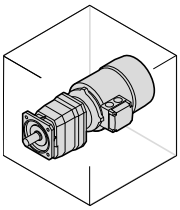
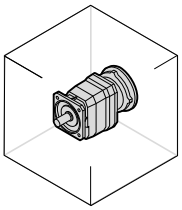
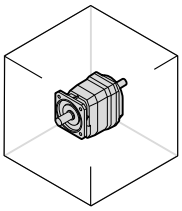
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



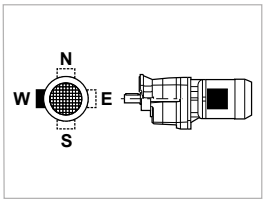
W = Default

C ... F - NF C ... U - NU C ... UF - NUF

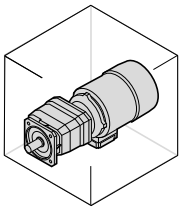
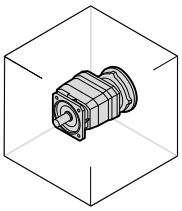
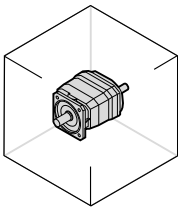
B5

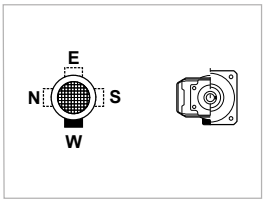
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



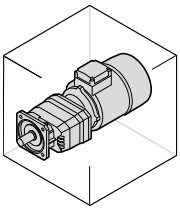
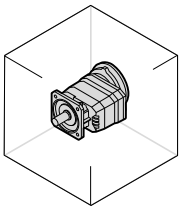
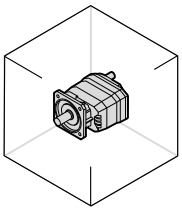
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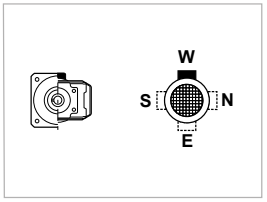
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



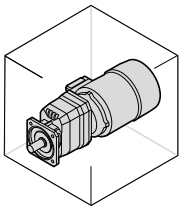
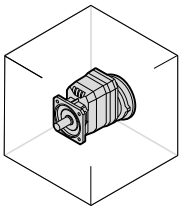
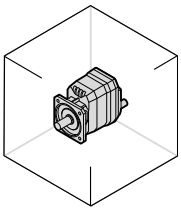
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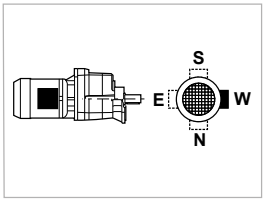
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



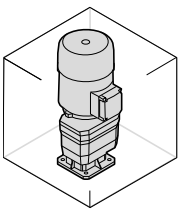
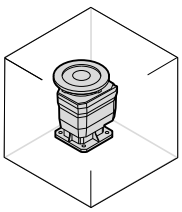
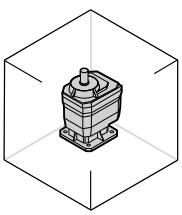
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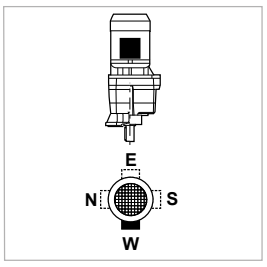
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



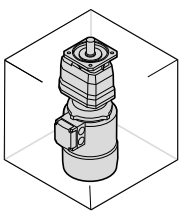
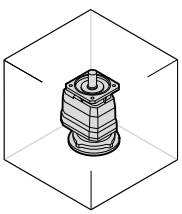
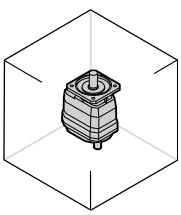
V1

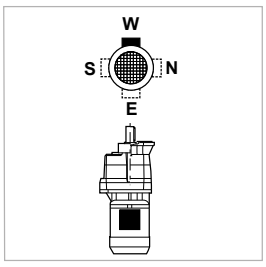
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



V3

_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



W = Default

23 OVERHUNG LOADS

External transmissions keyed onto input and/or output shaft generate loads that act radially onto same shaft.
Resulting shaft loading must be compatible with both the bearing and the shaft capacity. Namely shaft loading (R_{c1} for input shaft. R_{c2} for output shaft). must be equal or lower than admissible overhung load capacity for shaft under study (R_{n1} for input shaft. R_{n2} for output shaft). OHL capability listed in the rating chart section.
In the formulas given below. index (1) applies to parameters relating to input shaft. whereas index (2) refers to output shaft.
The load generated by an external transmission can be calculated with close approximation by the following equations:

$$R_{c1}\,[\text{lbs}] = \frac{2 \cdot T_1\,[\text{lb·in}] \cdot K_r}{d\,[\text{in}]} \quad ; \quad R_{c2}\,[\text{lbs}] = \frac{2 \cdot T_2\,[\text{lb·in}] \cdot K_r}{d\,[\text{in}]} \qquad (15)$$

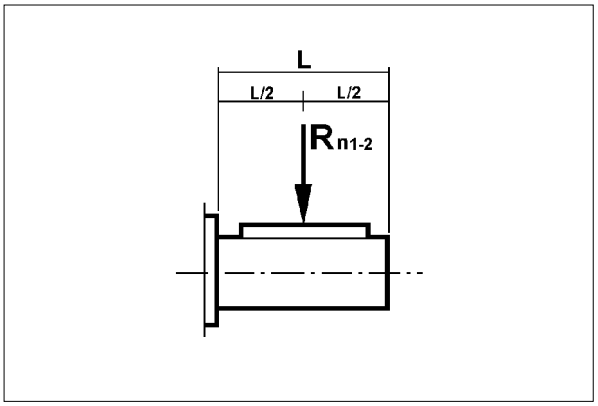
(B 17)

T_1 [lb•in]	Torque applied to input shaft
T_2 [lb•in]	Torque drawn at output shaft
d [in]	Pitch diameter of element keyed onto shaft
K_r = 1	Chain transmission

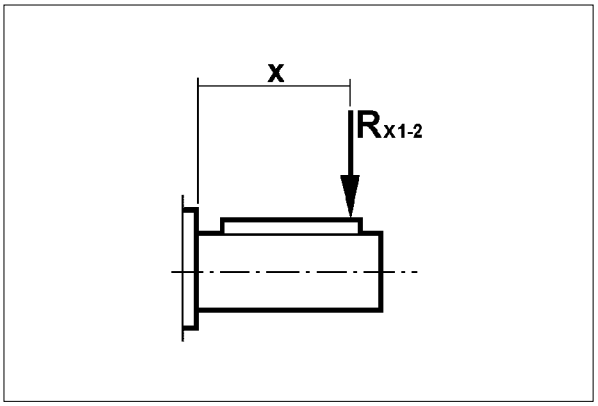
K_r = 1.25	Gear transmission
K_r = 1.5	V-belt transmission
K_r = 2.0	Flat belt transmission

Verification of OHL capability varies depending on whether load applies at midpoint of shaft or it is shifted further out:

(B 18)



(B 19)



a) Load applied at midpoint of shaft. tab. (B18)

A comparison of shaft loading with catalogue OHL ratings should verify the following condition:

$R_{c1} \leq R_{n1}$ [input shaft]

or

$R_{c2} \leq R_{n2}$ [output shaft]

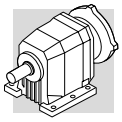
b) Load off the midpoint tab. (B19)

When load is shifted at an “x” distance from shaft shoulder. permissible load must be calculated for that distance.
Revised permissible overhung loads R_{x1} (input) and R_{x2} (output) are calculated respectively from original rated values R_{n1} and R_{n2} through factor:

$$\frac{a}{b+x} \qquad (16)$$

(B 20)

	Load location factors [in]					
	Output shaft			Input shaft		
	a	**b**	**c**	**a**	**b**	**c**
C 05 2	1.5	0.7	9.8	—	—	—
C 12 2	1.8	1.0	17.7	0.8	0	11.8
C 22 2	2.1	1.1	21.7	1.6	0.8	13.8
C 22 3	2.1	1.1	21.7	0.8	0	11.8
C 32 2	2.4	1.2	29.5	1.6	0.8	13.8
C 32 3	2.4	1.2	29.5	0.8	0	11.8
C 36 2 - C 36 3	2.7	1.4	31.5	2.0	1.0	17.7
C 36 4	2.7	1.4	31.5	0.8	0	11.8
C 41 2 - C 41 3	2.7	1.4	33.5	2.0	1.0	17.7
C 41 4	2.7	1.4	33.5	1.6	0.8	13.8
C 51 2 - C 51 3	3.0	1.4	35.4	2.0	1.0	17.7
C 51 4	3.0	1.4	35.4	1.6	0.8	13.8
C 61 2 - C 61 3	3.8	1.8	39.4	2.3	1.1	17.7
C 61 4	3.8	1.8	39.4	2.0	1.0	17.7
C 70 2 - C 70 3	4.5	2.1	47.2	3.4	1.2	39.4
C 70 4	4.5	2.1	47.2	1.9	1.0	17.7
C 80 2 - C 80 3	5.2	2.4	59.1	3.4	1.2	39.4
C 80 4	5.2	2.4	59.1	1.9	1.0	17.7
C 90 2 - C 90 3	6.3	3.0	78.7	4.6	1.8	55.1
C 90 4	6.3	3.0	78.7	1.9	1.0	17.7
C 100 2 - C 100 3	6.4	2.3	98.4	4.6	1.8	55.1
C 100 4	6.4	2.3	98.4	1.9	1.0	17.7



Verification procedure is described here after.

INPUT SHAFT

1. Calculate:

$$R_{x1} = R_{n1} \cdot \frac{a}{b + x} \qquad (17)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \qquad (18)$$

Finally. the following condition must be verified:

$$R_{c1} \leq R_{x1} \qquad (19)$$

OUTPUT SHAFT

1. Calculate:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \qquad (20)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \qquad (21)$$

Finally. the following condition must be verified:

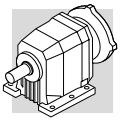
$$R_{c2} \leq R_{x2} \qquad (22)$$

24 THRUST LOADS. A_{n1}. A_{n2}

Permissible thrust loads on input [A_{n1}] and output [A_{n2}] shafts are obtained from the radial loading for the shaft under consideration [R_{n1}] and [R_{n2}] through the following equation:

$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \qquad (23)$$

The thrust loads calculated through these formulas apply to thrust forces occurring at the same time as rated radial loads. In the only case that no overhung load acts on the shaft the value of the admissible thrust load [A_n] amounts to 50% of rated OHL [R_n] on same shaft.
Where thrust loads exceed permissible value or largely prevail over radial loads. contact Bonfiglioli Riduttori for an in-depth analysis of the application.



25 GEARMOTOR RATING CHARTS

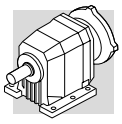
The selection of motors without brake takes into account the requirements of Regulation EC 640/2009 (see section **M** of this catalogue). When the motor rated power is below 0.75kW (1 HP). **BN/M** motors can be provided.
Considering that the Regulation EC 640/2009 shall not apply to the motors equipped with brake. the brakemotor selection takes into account **BN/M** motors only. without taking into account the rated power. **BX. BE. MX** and **ME** brakemotors are available on request.

0.12 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
37	192	2.1	44.7	240	**C052_44.7**	**S0+M0B4**			120, 121
41	173	2.3	40.3	203	**C052_40.3**	**S0+M0B4**			120, 121
46	156	2.6	36.4	201	**C052_36.4**	**S0+M0B4**			120, 121
51	141	2.8	32.8	197	**C052_32.8**	**S0+M0B4**			120, 121

0.16 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.1	7994	2.5	1475.8	5210	**C704_1476**		**P63+BN63A4**	**N56C**	178...181
1.2	7379	2.8	1362.3	5210	**C704_1362**		**P63+BN63A4**	**N56C**	178...181
1.9	4793	1.8	884.9	2050	**C514_884.9**		**P63+BN63A4**	**N56C**	162...165
2.0	4634	1.1	855.5	1432	**C414_855.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
2.1	4377	2.0	796.1	3288	**C614_796.1**		**P63+BN63A4**	**N56C**	170...173
2.2	4227	1.3	780.4	1432	**C414_780.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
2.2	4086	1.0	754.2	1336	**C364_754.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
2.3	3986	1.3	735.9	1432	**C414_735.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
2.4	3888	2.3	717.7	2050	**C514_717.7**		**P63+BN63A4**	**N56C**	162...165
2.5	3637	1.5	671.3	1432	**C414_671.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
2.5	3607	1.1	665.9	1336	**C364_665.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
2.6	3550	2.5	655.4	2050	**C514_655.4**		**P63+BN63A4**	**N56C**	162...165
2.8	3261	2.7	602.0	2050	**C514_602.0**		**P63+BN63A4**	**N56C**	162...165
2.8	3227	1.6	595.8	1432	**C414_595.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
2.9	3113	1.3	574.7	1336	**C364_574.7**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
3.1	2978	3.0	549.7	2050	**C514_549.7**		**P63+BN63A4**	**N56C**	162...165
3.1	2944	1.8	543.5	1432	**C414_543.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
3.3	2802	1.4	517.2	1336	**C364_517.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
3.4	2673	2.0	493.5	1432	**C414_493.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
3.7	2483	1.6	458.4	1336	**C364_458.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
3.8	2439	2.2	450.2	1432	**C414_450.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
4.0	2276	1.7	420.2	1336	**C364_420.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
4.0	2267	2.3	418.5	1432	**C414_418.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
4.4	2068	2.6	381.8	1432	**C414_381.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
4.5	2047	1.9	377.9	1336	**C364_377.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
4.9	1851	2.2	341.7	1336	**C364_341.7**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
5.1	1806	2.9	333.4	1432	**C414_333.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	154...157
5.3	1728	2.3	318.9	1336	**C364_318.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
5.8	1576	2.5	290.9	1336	**C364_290.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149

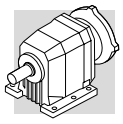


0.16 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
6.2	1538	1.4	274.7	1134	**C323_274.7**	**S05+M05A4**	**P63+BN63A4**	**N56C**	138...141
6.6	1381	2.9	255.0	1336	**C364_255.0**	**S05+M05A4**	**P63+BN63A4**	**N56C**	146...149
6.9	1367	1.6	244.2	1134	**C323_244.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	138...141
7.5	1264	1.2	225.8	1027	**C223_225.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
7.8	1207	2.2	215.6	1134	**C323_215.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	138...141
8.4	1123	1.4	200.7	1027	**C223_200.7**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
9.1	1041	2.5	186.0	1134	**C323_186.0**	**S05+M05A4**	**P63+BN63A4**	**N56C**	138...141
9.5	999	1.8	178.5	1027	**C223_178.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
10.1	937	2.8	167.4	1134	**C323_167.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	138...141
11.1	849	2.1	151.7	1027	**C223_151.7**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
12.4	764	2.3	136.5	1027	**C223_136.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
13.8	684	2.6	122.2	1027	**C223_122.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
15.1	627	2.8	112.0	1027	**C223_112.0**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
25.5	378	2.0	66.2	410	**C122_66.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	122...125
26.7	362	2.9	63.3	1027	**C222_63.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	130...133
31	315	2.5	55.2	410	**C122_55.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	122...125
36	272	2.8	47.6	410	**C122_47.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	122...125
38	256	1.6	44.7	207	**C052_44.7**	**S05+M05A4**			120, 121
42	231	1.7	40.3	203	**C052_40.3**	**S05+M05A4**			120, 121
46	208	1.9	36.4	201	**C052_36.4**	**S05+M05A4**			120, 121
52	187	2.1	32.8	197	**C052_32.8**	**S05+M05A4**			120, 121
62	155	2.6	27.1	190	**C052_27.1**	**S05+M05A4**			120, 121

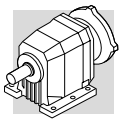
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n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.1	12508	2.8	1481.3	7286	**C804_1481**		**P63+BN63B4**	**N56C**	184...187
1.1	12461	1.6	1475.8	5210	**C704_1476**		**P63+BN63B4**	**N56C**	178...181
1.2	11503	1.8	1362.3	5210	**C704_1362**		**P63+BN63B4**	**N56C**	178...181
1.4	9779	2.1	1158.1	5210	**C704_1158**		**P63+BN63B4**	**N56C**	178...181
1.6	9027	2.3	1069.1	5210	**C704_1069**		**P63+BN63B4**	**N56C**	178...181
1.7	8440	2.4	999.5	5210	**C704_999.5**		**P63+BN63B4**	**N56C**	178...181
1.8	7790	2.6	922.6	5210	**C704_922.6**		**P63+BN63B4**	**N56C**	178...181
1.9	7472	1.2	884.9	2050	**C514_884.9**		**P63+BN63B4**	**N56C**	162...165
2.1	6822	1.3	808.0	2050	**C514_808.0**		**P63+BN63B4**	**N56C**	162...165
2.1	6722	2.1	796.1	3288	**C614_796.1**		**P63+BN63B4**	**N56C**	170...173
2.3	6133	2.3	726.3	3288	**C614_726.3**		**P63+BN63B4**	**N56C**	170...173
2.3	6061	1.5	717.7	2050	**C514_717.7**		**P63+BN63B4**	**N56C**	162...165
2.5	5669	0.9	671.3	1432	**C414_671.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
2.5	5647	2.5	668.8	3288	**C614_668.8**		**P63+BN63B4**	**N56C**	170...173
2.5	5534	1.6	655.4	2050	**C514_655.4**		**P63+BN63B4**	**N56C**	162...165
2.7	5152	2.7	610.1	3288	**C614_610.1**		**P63+BN63B4**	**N56C**	170...173
2.8	5084	1.7	602.0	2050	**C514_602.0**		**P63+BN63B4**	**N56C**	162...165
2.8	5031	1.1	595.8	1432	**C414_595.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
2.9	4823	2.9	571.2	3288	**C614_571.2**		**P63+BN63B4**	**N56C**	170...173
3.0	4642	1.9	549.7	2050	**C514_549.7**		**P63+BN63B4**	**N56C**	162...165
3.1	4590	1.2	543.5	1432	**C414_543.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
3.2	4367	0.9	517.2	1336	**C364_517.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
3.3	4290	2.1	508.0	2050	**C514_508.0**		**P63+BN63B4**	**N56C**	162...165
3.4	4167	1.3	493.5	1432	**C414_493.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
3.6	3917	2.3	463.9	2050	**C514_463.9**		**P63+BN63B4**	**N56C**	162...165
3.6	3871	1.0	458.4	1336	**C364_458.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
3.7	3802	1.4	450.2	1432	**C414_450.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
4.0	3548	1.1	420.2	1336	**C364_420.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
4.0	3534	1.5	418.5	1432	**C414_418.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157



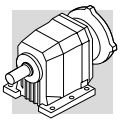
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n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
4.0	3510	2.5	415.7	2050	**C514_415.7**		**P63+BN63B4**	**N56C**	162...165
4.4	3224	1.6	381.8	1432	**C414_381.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
4.4	3205	2.8	379.6	2050	**C514_379.6**		**P63+BN63B4**	**N56C**	162...165
4.4	3191	1.2	377.9	1336	**C364_377.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
4.9	2885	1.4	341.7	1336	**C364_341.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
5.0	2816	1.9	333.4	1432	**C414_333.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
5.2	2693	1.5	318.9	1336	**C364_318.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
5.5	2569	2.1	304.2	1432	**C414_304.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
5.7	2456	1.6	290.9	1336	**C364_290.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
6.3	2221	2.4	263.0	1432	**C414_263.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
6.5	2153	1.8	255.0	1336	**C364_255.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
6.8	2131	1.0	244.2	1134	**C323_244.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
7.0	2026	2.6	239.9	1432	**C414_239.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	154...157
7.2	1950	2.0	230.9	1336	**C364_230.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
7.7	1881	1.4	215.6	1134	**C323_215.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
8.0	1825	2.9	209.1	1432	**C413_209.1**		**P63+BN63B4**	**N56C**	154...157
8.1	1801	2.2	206.4	1336	**C363_206.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
9.0	1623	1.6	186.0	1134	**C323_186.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
9.1	1601	2.5	183.5	1336	**C363_183.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
9.4	1557	1.1	178.5	1027	**C223_178.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
10.0	1461	1.8	167.4	1134	**C323_167.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
10.3	1413	2.8	162.0	1336	**C363_162.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	146...149
11.0	1323	1.3	151.7	1027	**C223_151.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
11.3	1295	2.1	148.4	1134	**C323_148.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
12.2	1191	1.5	136.5	1027	**C223_136.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
12.3	1187	2.2	136.0	1134	**C323_136.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
13.6	1068	2.5	122.4	1134	**C323_122.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
13.7	1066	1.7	122.2	1027	**C223_122.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
14.9	977	1.8	112.0	1027	**C223_112.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
15.1	965	2.8	110.6	1134	**C323_110.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
16.2	901	2.9	103.3	1134	**C323_103.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	138...141
16.7	874	2.0	100.2	1027	**C223_100.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
18.9	772	2.3	88.5	1027	**C223_88.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
20.2	721	2.5	82.6	1027	**C223_82.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
22.3	653	2.7	74.8	1027	**C223_74.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
25.2	590	1.3	66.2	410	**C122_66.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	122...125
26.4	564	1.9	63.3	1027	**C222_63.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
30	492	1.6	55.2	410	**C122_55.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	122...125
31	488	2.6	54.7	1027	**C222_54.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
34	434	2.9	48.6	1027	**C222_48.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	130...133
35	424	1.8	47.6	410	**C122_47.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	122...125
37	399	1.0	44.7	174	**C052_44.7**	**S05+M05B4**			120, 121
39	377	1.9	42.3	410	**C122_42.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	122...125
41	359	1.1	40.3	174	**C052_40.3**	**S05+M05B4**			120, 121
45	330	2.2	37.0	410	**C122_37.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	122...125
46	324	1.2	36.4	174	**C052_36.4**	**S05+M05B4**			120, 121
51	292	1.4	32.8	172	**C052_32.8**	**S05+M05B4**			120, 121
51	292	2.5	32.8	410	**C122_32.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	122...125
57	263	2.8	29.5	410	**C122_29.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	122...125
62	242	1.6	27.1	168	**C052_27.1**	**S05+M05B4**			120, 121
80	187	2.1	21.0	166	**C052_21.0**	**S05+M05B4**			120, 121
88	168	1.9	18.9	162	**C052_18.9**	**S05+M05B4**			120, 121
107	139	2.3	15.6	156	**C052_15.6**	**S05+M05B4**			120, 121
134	111	2.9	12.5	152	**C052_12.5**	**S05+M05B4**			120, 121
179	83	2.9	9.3	141	**C052_9.3**	**S05+M05B4**			120, 121



0.33 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.1	16520	2.1	1481.3	7286	**C804_1481**		**P71+BN71A4**	**N56C**	184...187
1.1	16459	1.2	1475.8	5210	**C704_1476**		**P71+BN71A4**	**N56C**	178...181
1.2	15193	1.3	1362.3	5210	**C704_1362**		**P71+BN71A4**	**N56C**	178...181
1.2	15143	2.3	1357.8	7286	**C804_1358**		**P71+BN71A4**	**N56C**	184...187
1.3	14211	2.5	1274.2	7286	**C804_1274**		**P71+BN71A4**	**N56C**	184...187
1.4	13026	2.7	1168.0	7286	**C804_1168**		**P71+BN71A4**	**N56C**	184...187
1.4	12916	1.6	1158.1	5210	**C704_1158**		**P71+BN71A4**	**N56C**	178...181
1.6	11923	1.7	1069.1	5210	**C704_1069**		**P71+BN71A4**	**N56C**	178...181
1.7	11147	1.8	999.5	5210	**C704_999.5**		**P71+BN71A4**	**N56C**	178...181
1.8	10289	2.0	922.6	5210	**C704_922.6**		**P71+BN71A4**	**N56C**	178...181
2.1	9011	1.0	808.0	2050	**C514_808.0**		**P71+BN71A4**	**N56C**	162...165
2.1	8892	2.3	797.3	5210	**C704_797.3**		**P71+BN71A4**	**N56C**	178...181
2.1	8879	1.6	796.1	3288	**C614_796.1**		**P71+BN71A4**	**N56C**	170...173
2.3	8208	2.5	736.0	5210	**C704_736.0**		**P71+BN71A4**	**N56C**	178...181
2.3	8100	1.7	726.3	3288	**C614_726.3**		**P71+BN71A4**	**N56C**	170...173
2.3	8005	1.1	717.7	2050	**C514_717.7**		**P71+BN71A4**	**N56C**	162...165
2.5	7459	1.9	668.8	3288	**C614_668.8**		**P71+BN71A4**	**N56C**	170...173
2.5	7331	2.8	657.3	5210	**C704_657.3**		**P71+BN71A4**	**N56C**	178...181
2.5	7309	1.2	655.4	2050	**C514_655.4**		**P71+BN71A4**	**N56C**	162...165
2.7	6804	2.1	610.1	3288	**C614_610.1**		**P71+BN71A4**	**N56C**	170...173
2.8	6714	1.3	602.0	2050	**C514_602.0**		**P71+BN71A4**	**N56C**	162...165
2.9	6370	2.2	571.2	3288	**C614_571.2**		**P71+BN71A4**	**N56C**	170...173
3.0	6131	1.4	549.7	2050	**C514_549.7**		**P71+BN71A4**	**N56C**	162...165
3.2	5812	2.4	521.1	3288	**C614_521.1**		**P71+BN71A4**	**N56C**	170...173
3.3	5666	1.6	508.0	2050	**C514_508.0**		**P71+BN71A4**	**N56C**	162...165
3.4	5504	1.0	493.5	1432	**C414_493.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
3.6	5173	1.7	463.9	2050	**C514_463.9**		**P71+BN71A4**	**N56C**	162...165
3.6	5153	2.7	462.0	3288	**C614_462.0**		**P71+BN71A4**	**N56C**	170...173
3.7	5021	1.1	450.2	1432	**C414_450.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
4.0	4668	1.1	418.5	1432	**C414_418.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
4.0	4636	1.9	415.7	2050	**C514_415.7**		**P71+BN71A4**	**N56C**	162...165
4.4	4258	1.2	381.8	1432	**C414_381.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
4.4	4234	2.1	379.6	2050	**C514_379.6**		**P71+BN71A4**	**N56C**	162...165
4.4	4215	0.9	377.9	1336	**C364_377.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	146...149
4.9	3811	1.0	341.7	1336	**C364_341.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	146...149
5.0	3719	1.4	333.4	1432	**C414_333.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
5.1	3637	2.4	326.1	2050	**C514_326.1**		**P71+BN71A4**	**N56C**	162...165
5.2	3557	1.1	318.9	1336	**C364_318.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	146...149
5.5	3393	1.6	304.2	1432	**C414_304.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
5.6	3321	2.7	297.8	2050	**C514_297.8**		**P71+BN71A4**	**N56C**	162...165
5.7	3244	1.2	290.9	1336	**C364_290.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	146...149
6.3	2933	1.8	263.0	1432	**C414_263.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
6.5	2844	1.4	255.0	1336	**C364_255.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	146...149
7.0	2676	2.0	239.9	1432	**C414_239.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	154...157
7.2	2575	1.5	230.9	1336	**C364_230.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	146...149
7.7	2484	1.1	215.6	1134	**C323_215.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
8.0	2410	2.2	209.1	1432	**C413_209.1**		**P71+BN71A4**	**N56C**	154...157
8.1	2379	1.7	206.4	1336	**C363_206.4**		**P71+BN71A4**	**N56C**	146...149
8.8	2198	2.4	190.8	1432	**C413_190.8**		**P71+BN71A4**	**N56C**	154...157
9.0	2144	1.2	186.0	1134	**C323_186.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
9.1	2114	1.9	183.5	1336	**C363_183.5**		**P71+BN71A4**	**N56C**	146...149
9.3	2073	2.6	179.9	1432	**C413_179.9**		**P71+BN71A4**	**N56C**	154...157
10.0	1930	1.4	167.4	1134	**C323_167.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
10.2	1891	2.8	164.1	1432	**C413_164.1**		**P71+BN71A4**	**N56C**	154...157
10.3	1867	2.1	162.0	1336	**C363_162.0**		**P71+BN71A4**	**N56C**	146...149
11.0	1748	1.0	151.7	1027	**C223_151.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
11.3	1710	1.6	148.4	1134	**C323_148.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
11.9	1611	2.5	139.8	1336	**C363_139.8**		**P71+BN71A4**	**N56C**	146...149
12.2	1573	1.1	136.5	1027	**C223_136.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133

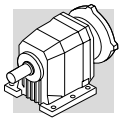


0.33 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
12.3	1568	1.7	136.0	1134	**C323_136.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
13.3	1450	2.7	125.8	1336	**C363_125.8**		**P71+BN71A4**	**N56C**	146...149
13.6	1410	1.9	122.4	1134	**C323_122.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
13.7	1408	1.3	122.2	1027	**C223_122.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
14.9	1291	1.4	112.0	1027	**C223_112.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
15.1	1275	2.1	110.6	1134	**C323_110.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
16.2	1190	2.2	103.3	1134	**C323_103.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
16.7	1154	1.5	100.2	1027	**C223_100.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
17.7	1085	2.4	94.2	1134	**C323_94.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
18.9	1020	1.7	88.5	1027	**C223_88.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
20.2	952	1.9	82.6	1027	**C223_82.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
20.2	951	2.8	82.6	1134	**C323_82.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
22.3	862	2.1	74.8	1027	**C223_74.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
22.3	861	2.9	74.7	1134	**C323_74.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	138...141
25.0	787	2.3	66.8	1134	**C322_66.8**		**P71+BN71A4**	**N56C**	138...141
25.2	779	1.0	66.2	410	**C122_66.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
25.6	753	2.4	65.3	1027	**C223_65.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
26.4	745	1.4	63.3	1027	**C222_63.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
27.8	691	2.3	60.0	1027	**C223_60.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
28.1	699	2.6	59.4	1134	**C322_59.4**		**P71+BN71A4**	**N56C**	138...141
30	649	1.2	55.2	410	**C122_55.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
31	644	2.0	54.7	1027	**C222_54.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
34	573	2.2	48.6	1027	**C222_48.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	130...133
35	560	1.3	47.6	410	**C122_47.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
39	498	1.5	42.3	410	**C122_42.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
45	436	1.7	37.0	410	**C122_37.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
46	428	0.9	36.4	133	**C052_36.4**	**S05+M05C4**			120, 121
51	386	1.0	32.8	139	**C052_32.8**	**S05+M05C4**			120, 121
51	386	1.9	32.8	410	**C122_32.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
57	347	2.1	29.5	410	**C122_29.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
62	320	1.2	27.1	143	**C052_27.1**	**S05+M05C4**			120, 121
66	298	2.4	25.4	410	**C122_25.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
72	274	2.5	23.2	410	**C122_23.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
80	247	1.6	21.0	147	**C052_21.0**	**S05+M05C4**			120, 121
81	243	2.7	20.6	410	**C122_20.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
88	222	1.5	18.9	145	**C052_18.9**	**S05+M05C4**			120, 121
91	216	2.9	18.4	410	**C122_18.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	122...125
107	184	1.8	15.6	143	**C052_15.6**	**S05+M05C4**			120, 121
134	147	2.2	12.5	141	**C052_12.5**	**S05+M05C4**			120, 121
149	132	2.5	11.2	137	**C052_11.2**	**S05+M05C4**			120, 121
179	110	2.2	9.3	133	**C052_9.3**	**S05+M05C4**			120, 121
225	87	2.8	7.4	127	**C052_7.4**	**S05+M05C4**			120, 121

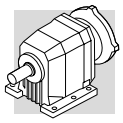
0.50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.1	24662	1.4	1481.3	7286	**C804_1481**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
1.3	22607	1.6	1357.8	7286	**C804_1358**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
1.3	21214	1.7	1274.2	7286	**C804_1274**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
1.5	19447	1.8	1168.0	7286	**C804_1168**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
1.5	19282	1.1	1158.1	5210	**C704_1158**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
1.6	17799	1.1	1069.1	5210	**C704_1069**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
1.6	17176	2.1	1031.7	7286	**C804_1032**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
1.7	16640	1.2	999.5	5210	**C704_999.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
1.8	15745	2.2	945.7	7286	**C804_945.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
1.8	15360	1.3	922.6	5210	**C704_922.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
2.0	14228	2.5	854.6	7286	**C804_854.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187



0.50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
2.1	13274	1.5	797.3	5210	**C704_797.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
2.1	13255	1.1	796.1	3288	**C614_796.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
2.2	13042	2.7	783.4	7286	**C804_783.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
2.3	12253	1.7	736.0	5210	**C704_736.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
2.3	12092	1.2	726.3	3288	**C614_726.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
2.3	12066	2.9	724.7	7286	**C804_724.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	184...187
2.5	11135	1.3	668.8	3288	**C614_668.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
2.6	10944	1.9	657.3	5210	**C704_657.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
2.8	10158	1.4	610.1	3288	**C614_610.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
2.8	10102	2.0	606.8	5210	**C704_606.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
3.0	9510	1.5	571.2	3288	**C614_571.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
3.1	9235	2.2	554.7	5210	**C704_554.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
3.1	9152	1.0	549.7	2050	**C514_549.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
3.3	8676	1.6	521.1	3288	**C614_521.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
3.3	8525	2.4	512.0	5210	**C704_512.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
3.3	8458	1.0	508.0	2050	**C514_508.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
3.7	7723	1.1	463.9	2050	**C514_463.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
3.7	7692	1.8	462.0	3288	**C614_462.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
3.8	7384	2.8	443.5	5210	**C704_443.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
4.0	7017	2.0	421.5	3288	**C614_421.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
4.1	6922	1.3	415.7	2050	**C514_415.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
4.2	6816	3.0	409.4	5210	**C704_409.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	178...181
4.5	6320	1.4	379.6	2050	**C514_379.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
4.6	6162	2.3	370.1	3288	**C614_370.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
5.0	5622	2.5	337.7	3288	**C614_337.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
5.1	5552	1.0	333.4	1432	**C414_333.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
5.2	5429	1.6	326.1	2050	**C514_326.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
5.6	5065	1.0	304.2	1432	**C414_304.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
5.6	5024	2.8	301.7	3288	**C614_301.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	170...173
5.7	4957	1.8	297.8	2050	**C514_297.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
6.4	4392	2.0	263.8	2050	**C514_263.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
6.5	4379	1.2	263.0	1432	**C414_263.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
6.7	4246	0.9	255.0	1253	**C364_255.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
7.1	4010	2.2	240.9	2050	**C514_240.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
7.1	3995	1.3	239.9	1432	**C414_239.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
7.4	3844	1.0	230.9	1295	**C364_230.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
7.8	3728	2.4	216.7	2050	**C513_216.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
8.1	3598	1.5	209.1	1432	**C413_209.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
8.2	3551	1.1	206.4	1336	**C363_206.4**		**P71+BN71B4**	**N56C**	146...149
8.6	3404	2.6	197.9	2050	**C513_197.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
8.9	3282	1.6	190.8	1432	**C413_190.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
9.3	3156	1.3	183.5	1336	**C363_183.5**		**P71+BN71B4**	**N56C**	146...149
9.5	3095	1.7	179.9	1432	**C413_179.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
9.7	3024	2.9	175.8	2050	**C513_175.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	162...165
10.2	2881	0.9	167.4	1093	**C323_167.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
10.4	2823	1.9	164.1	1432	**C413_164.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
10.5	2787	1.4	162.0	1336	**C363_162.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
11.5	2553	1.0	148.4	1134	**C323_148.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
11.7	2506	2.1	145.6	1432	**C413_145.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
12.2	2405	1.7	139.8	1336	**C363_139.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
12.5	2340	1.1	136.0	1134	**C323_136.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
12.8	2286	2.3	132.9	1432	**C413_132.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
13.5	2164	1.8	125.8	1336	**C363_125.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
13.9	2105	1.3	122.4	1134	**C323_122.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
14.1	2076	2.6	120.6	1432	**C413_120.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157
15.2	1927	0.9	112.0	914	**C223_112.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
15.2	1918	2.1	111.5	1336	**C363_111.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
15.4	1903	1.4	110.6	1134	**C323_110.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
15.4	1893	2.8	110.1	1432	**C413_110.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	154...157

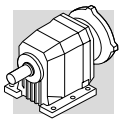


0.50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
16.5	1776	1.5	103.3	1134	**C323_103.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
16.6	1758	2.3	102.2	1336	**C363_102.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
17.0	1723	1.0	100.2	955	**C223_100.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
18.1	1620	1.6	94.2	1134	**C323_94.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
18.5	1582	2.5	91.9	1336	**C363_91.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
19.2	1523	1.2	88.5	997	**C223_88.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
20.5	1430	2.8	83.1	1336	**C363_83.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
20.6	1421	1.2	82.6	1027	**C223_82.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
20.6	1420	1.9	82.6	1134	**C323_82.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
21.9	1335	3.0	77.6	1336	**C363_77.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	146...149
22.7	1287	1.4	74.8	1027	**C223_74.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
22.7	1286	1.9	74.7	1134	**C323_74.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
25.4	1174	1.5	66.8	1134	**C322_66.8**		**P71+BN71B4**	**N56C**	138...141
26.0	1124	1.6	65.3	1027	**C223_65.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
26.9	1112	1.0	63.3	997	**C222_63.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
28.3	1032	1.5	60.0	1027	**C223_60.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
28.6	1044	1.7	59.4	1134	**C322_59.4**		**P71+BN71B4**	**N56C**	138...141
31	962	1.3	54.7	1027	**C222_54.7**		**P71+BN71B4**	**N56C**	130...133
32	922	2.9	52.4	1134	**C322_52.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	138...141
35	855	1.5	48.6	997	**C222_48.6**		**P71+BN71B4**	**N56C**	130...133
39	760	2.0	43.3	931	**C222_43.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
40	744	1.0	42.3	410	**C122_42.3**		**P71+BN71B4**	**N56C**	122...125
46	650	1.1	37.0	410	**C122_37.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
46	646	2.5	36.8	896	**C222_36.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
51	582	2.8	33.1	871	**C222_33.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	130...133
52	576	1.3	32.8	410	**C122_32.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
58	518	1.4	29.5	410	**C122_29.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
67	446	1.6	25.4	410	**C122_25.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
73	408	1.7	23.2	410	**C122_23.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
81	368	1.1	21.0	115	**C052_21.0**	**S1+M1SD4**			120, 121
82	363	1.8	20.6	410	**C122_20.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
90	332	1.0	18.9	115	**C052_18.9**	**S1+M1SD4**			120, 121
92	323	2.0	18.4	410	**C122_18.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
99	302	2.0	17.2	410	**C122_17.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
109	275	1.2	15.6	119	**C052_15.6**	**S1+M1SD4**			120, 121
110	271	2.2	15.4	410	**C122_15.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
127	236	2.4	13.4	410	**C122_13.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
136	219	1.5	12.5	123	**C052_12.5**	**S1+M1SD4**			120, 121
143	209	2.6	11.9	410	**C122_11.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
151	197	1.6	11.2	121	**C052_11.2**	**S1+M1SD4**			120, 121
169	177	2.9	10.1	395	**C122_10.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	122...125
183	164	1.5	9.3	119	**C052_9.3**	**S1+M1SD4**			120, 121
229	130	1.9	7.4	117	**C052_7.4**	**S1+M1SD4**			120, 121
254	117	2.1	6.7	115	**C052_6.7**	**S1+M1SD4**			120, 121
307	97	2.5	5.5	111	**C052_5.5**	**S1+M1SD4**			120, 121

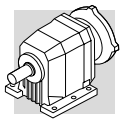
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n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.2	36816	1.0	1481.3	7286	**C804_1481**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
1.3	33748	1.0	1357.8	7286	**C804_1358**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
1.3	31669	1.1	1274.2	7286	**C804_1274**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
1.4	30830	2.1	1240.4	12504	**C904_1240**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	190...193
1.5	29030	1.2	1168.0	7286	**C804_1168**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
1.5	28260	2.3	1137.1	12504	**C904_1137**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	190...193
1.7	25641	1.4	1031.7	7286	**C804_1032**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187

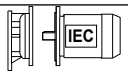


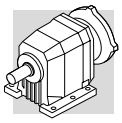
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n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.7	25007	2.5	1006.1	12504	**C904_1006**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	190...193
1.8	23505	1.5	945.7	7286	**C804_945.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
1.9	22923	2.8	922.3	12504	**C904_922.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	190...193
2.0	21240	1.7	854.6	7286	**C804_854.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
2.1	19816	1.0	797.3	5210	**C704_797.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
2.2	19470	1.8	783.4	7286	**C804_783.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
2.3	18292	1.1	736.0	5210	**C704_736.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
2.4	18012	2.0	724.7	7286	**C804_724.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
2.6	16511	2.1	664.3	7286	**C804_664.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
2.6	16338	1.2	657.3	5210	**C704_657.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
2.8	15164	0.9	610.1	3288	**C614_610.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
2.8	15081	1.3	606.8	5210	**C704_606.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
3.0	14350	2.5	577.4	7286	**C804_577.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
3.0	14197	1.0	571.2	3288	**C614_571.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
3.1	13787	1.5	554.7	5210	**C704_554.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
3.2	13154	2.7	529.3	7286	**C804_529.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	184...187
3.3	12952	1.1	521.1	3288	**C614_521.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
3.3	12726	1.6	512.0	5210	**C704_512.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
3.7	11483	1.2	462.0	3288	**C614_462.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
3.9	11023	1.8	443.5	5210	**C704_443.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
4.1	10476	1.4	421.5	3288	**C614_421.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
4.2	10175	2.0	409.4	5210	**C704_409.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
4.5	9435	0.9	379.6	2050	**C514_379.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
4.6	9199	1.5	370.1	3288	**C614_370.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
5.0	8558	2.4	344.3	5210	**C704_344.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
5.1	8392	1.7	337.7	3288	**C614_337.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
5.2	8105	1.1	326.1	2050	**C514_326.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
5.4	7900	2.6	317.9	5210	**C704_317.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	178...181
5.7	7500	1.9	301.7	3288	**C614_301.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
5.7	7401	1.2	297.8	2050	**C514_297.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
6.2	6842	2.1	275.3	3288	**C614_275.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
6.5	6556	1.4	263.8	2050	**C514_263.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
7.1	5986	1.5	240.9	2050	**C514_240.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
7.2	5923	2.4	238.3	3288	**C614_238.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
7.9	5403	2.6	217.4	3288	**C614_217.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
7.9	5565	1.6	216.7	2050	**C513_216.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
8.2	5371	1.0	209.1	1432	**C413_209.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
8.6	5082	1.7	197.9	2050	**C513_197.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
8.7	4866	2.9	195.8	3288	**C613_195.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	170...173
9.0	4899	1.1	190.8	1432	**C413_190.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
9.5	4620	1.1	179.9	1432	**C413_179.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
9.7	4514	2.0	175.8	2050	**C513_175.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
10.4	4215	1.3	164.1	1432	**C413_164.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
10.6	4160	1.0	162.0	1336	**C363_162.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
10.7	4122	2.1	160.5	2050	**C513_160.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
11.6	3787	2.3	147.4	2050	**C513_147.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
11.7	3740	1.4	145.6	1432	**C413_145.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
12.2	3590	1.1	139.8	1336	**C363_139.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
12.7	3458	2.6	134.6	2050	**C513_134.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
12.9	3412	1.6	132.9	1432	**C413_132.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
13.6	3231	1.2	125.8	1336	**C363_125.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
13.7	3195	2.8	124.4	2050	**C513_124.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	162...165
14.2	3098	1.7	120.6	1432	**C413_120.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
15.3	2864	1.4	111.5	1336	**C363_111.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
15.5	2841	0.9	110.6	1134	**C323_110.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
15.5	2827	1.9	110.1	1432	**C413_110.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157



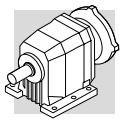
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n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IEC IE1	 NEMA	
16.6	2652	1.0	103.3	1134	**C323_103.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
16.7	2628	2.0	102.3	1432	**C413_102.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
16.7	2625	1.5	102.2	1336	**C363_102.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
18.2	2419	1.1	94.2	1134	**C323_94.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
18.3	2397	2.2	93.3	1432	**C413_93.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
18.6	2361	1.7	91.9	1336	**C363_91.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
20.6	2135	1.9	83.1	1336	**C363_83.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
20.7	2120	1.3	82.6	1134	**C323_82.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
21.0	2093	2.5	81.5	1432	**C413_81.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
22.0	1992	2.0	77.6	1336	**C363_77.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
22.9	1921	0.9	74.8	896	**C223_74.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
22.9	1920	1.3	74.7	1134	**C323_74.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
23.0	1910	2.7	74.4	1432	**C413_74.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	154...157
24.2	1817	2.2	70.8	1336	**C363_70.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
25.6	1753	1.0	66.8	1134	**C322_66.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
26.2	1678	1.1	65.3	888	**C223_65.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
27.6	1593	2.5	62.0	1336	**C363_62.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
28.5	1541	1.0	60.0	879	**C223_60.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
28.8	1558	1.2	59.4	1134	**C322_59.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
30	1442	2.8	56.2	1336	**C363_56.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	146...149
33	1376	1.9	52.4	1134	**C322_52.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
35	1276	1.0	48.6	822	**C222_48.6**		**P80+BN80A4**	**N56C**	130...133
38	1187	2.2	45.3	1134	**C322_45.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
40	1135	1.4	43.3	861	**C222_43.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
42	1068	2.4	40.7	1134	**C322_40.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
47	965	1.7	36.8	836	**C222_36.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
47	947	2.6	36.1	1134	**C322_36.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
52	868	1.9	33.1	816	**C222_33.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
52	868	2.8	33.1	1134	**C322_33.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	138...141
58	777	2.1	29.6	799	**C222_29.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
58	774	0.9	29.5	410	**C122_29.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
63	712	2.3	27.2	793	**C222_27.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
67	665	1.1	25.4	410	**C122_25.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
70	637	2.6	24.3	764	**C222_24.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
74	610	1.1	23.2	410	**C122_23.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
80	563	2.8	21.5	760	**C222_21.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
83	541	1.2	20.6	410	**C122_20.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
85	525	2.9	20.0	731	**C222_20.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	130...133
93	482	1.3	18.4	410	**C122_18.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
100	450	1.4	17.2	410	**C122_17.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
111	405	1.5	15.4	410	**C122_15.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
128	352	1.6	13.4	408	**C122_13.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
137	327	1.0	12.5	92	**C052_12.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	120, 121
144	312	1.7	11.9	393	**C122_11.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
152	295	1.1	11.2	98	**C052_11.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	120, 121
170	264	1.9	10.1	379	**C122_10.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
184	244	1.0	9.3	92	**C052_9.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	120, 121
194	232	2.1	8.8	365	**C122_8.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
224	200	2.3	7.6	352	**C122_7.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
231	194	1.3	7.4	94	**C052_7.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	120, 121
256	175	1.4	6.7	92	**C052_6.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	120, 121
274	163	2.6	6.2	326	**C122_6.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
305	147	2.8	5.6	315	**C122_5.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	122...125
309	145	1.7	5.5	88	**C052_5.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	120, 121



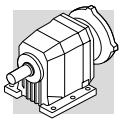
1 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
1.4	40513	1.6	1240.4	12504	**C904_1240**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
1.5	38149	0.9	1168.0	7286	**C804_1168**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
1.5	37137	1.7	1137.1	12504	**C904_1137**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
1.7	33696	1.1	1031.7	7286	**C804_1032**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
1.7	32861	1.9	1006.1	12504	**C904_1006**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
1.8	30888	1.1	945.7	7286	**C804_945.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
1.9	30123	2.1	922.3	12504	**C904_922.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
2.0	27911	1.3	854.6	7286	**C804_854.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
2.1	27564	2.3	844.0	12504	**C904_844.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
2.2	25585	1.4	783.4	7286	**C804_783.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
2.3	25267	2.5	773.6	12504	**C904_773.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
2.4	23670	1.5	724.7	7286	**C804_724.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
2.5	23260	2.7	712.2	12504	**C904_712.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
2.6	21697	1.6	664.3	7286	**C804_664.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
2.7	21469	0.9	657.3	5210	**C704_657.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
2.7	21322	3.0	652.8	12504	**C904_652.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	190...193
2.9	19818	1.0	606.8	5210	**C704_606.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
3.0	18858	1.9	577.4	7286	**C804_577.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
3.1	18117	1.1	554.7	5210	**C704_554.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
3.3	17286	2.0	529.3	7286	**C804_529.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
3.4	16723	1.2	512.0	5210	**C704_512.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
3.8	15090	0.9	462.0	3288	**C614_462.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
3.8	14875	2.4	455.4	7286	**C804_455.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
3.9	14486	1.4	443.5	5210	**C704_443.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
4.1	13766	1.0	421.5	3288	**C614_421.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
4.2	13635	2.6	417.5	7286	**C804_417.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
4.3	13371	1.5	409.4	5210	**C704_409.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
4.7	12089	1.2	370.1	3288	**C614_370.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
4.8	11910	3.0	364.7	7286	**C804_364.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	184...187
5.1	11247	1.8	344.3	5210	**C704_344.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
5.2	11028	1.3	337.7	3288	**C614_337.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
5.5	10382	2.0	317.9	5210	**C704_317.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
5.8	9855	1.4	301.7	3288	**C614_301.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
5.9	9725	0.9	297.8	2050	**C514_297.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
6.3	8991	1.6	275.3	3288	**C614_275.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
6.4	8891	2.3	272.2	5210	**C704_272.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
6.6	8615	1.0	263.8	2050	**C514_263.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
6.9	8207	2.5	251.3	5210	**C704_251.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
7.2	7866	1.1	240.9	2050	**C514_240.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
7.3	8077	2.5	239.3	5210	**C703_239.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
7.3	7783	1.8	238.3	3288	**C614_238.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
7.9	7456	2.7	220.9	5210	**C703_220.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	178...181
8.0	7101	2.0	217.4	3288	**C614_217.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
8.1	7314	1.2	216.7	2050	**C513_216.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
8.8	6678	1.3	197.9	2050	**C513_197.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
8.9	6394	2.2	195.8	3288	**C613_195.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
9.8	5833	2.4	178.6	3288	**C613_178.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
9.9	5932	1.5	175.8	2050	**C513_175.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
10.6	5371	2.6	164.5	3288	**C613_164.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
10.6	5538	1.0	164.1	1432	**C413_164.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
10.9	5417	1.6	160.5	2050	**C513_160.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
11.6	4900	2.9	150.0	3288	**C613_150.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	170...173
11.8	4976	1.8	147.4	2050	**C513_147.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
12.0	4915	1.1	145.6	1432	**C413_145.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
13.0	4544	1.9	134.6	2050	**C513_134.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
13.1	4484	1.2	132.9	1432	**C413_132.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157



1 hp

n_2	T_2	S	i	R_{n2}							
rpm	lb·in			lbs		IE2	IE3	IE2	IE3	NEMA	
13.9	4246	0.9	125.8	1336	**C363_125.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
14.0	4199	2.1	124.4	2050	**C513_124.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
14.5	4072	1.3	120.6	1432	**C413_120.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
15.4	3834	2.3	113.6	2050	**C513_113.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
15.6	3763	1.1	111.5	1336	**C363_111.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
15.9	3714	1.4	110.1	1432	**C413_110.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
17.1	3453	1.5	102.3	1432	**C413_102.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
17.1	3450	1.2	102.2	1336	**C363_102.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
17.1	3436	2.6	101.8	2050	**C513_101.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
18.7	3150	1.7	93.3	1432	**C413_93.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
18.8	3138	2.8	93.0	2050	**C513_93.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	162...165
19.0	3103	1.3	91.9	1336	**C363_91.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
21.0	2805	1.4	83.1	1336	**C363_83.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
21.1	2786	1.0	82.6	1134	**C323_82.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
21.4	2751	1.9	81.5	1432	**C413_81.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
22.5	2618	1.5	77.6	1336	**C363_77.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
23.3	2523	1.0	74.7	1134	**C323_74.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
23.5	2510	2.1	74.4	1432	**C413_74.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
24.7	2388	1.7	70.8	1336	**C363_70.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
27.1	2170	2.3	64.3	1432	**C413_64.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
28.1	2093	1.9	62.0	1336	**C363_62.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
29.8	1980	2.5	58.7	1432	**C413_58.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
31	1895	2.1	56.2	1336	**C363_56.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
33	1808	1.5	52.4	1134	**C322_52.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
34	1737	2.8	51.5	1432	**C413_51.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
36	1625	2.5	48.2	1336	**C363_48.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
39	1560	1.7	45.3	1134	**C322_45.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
39	1543	2.9	44.8	1432	**C412_44.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	154...157
40	1467	2.7	43.5	1336	**C363_43.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
40	1492	1.0	43.3	783	**C222_43.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
43	1404	1.8	40.7	1134	**C322_40.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
46	1285	3.0	38.1	1336	**C363_38.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	146...149
47	1268	1.3	36.8	771	**C222_36.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
48	1245	2.0	36.1	1134	**C322_36.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
53	1141	1.4	33.1	756	**C222_33.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
53	1141	2.1	33.1	1134	**C322_33.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
59	1026	2.4	29.8	1134	**C322_29.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
59	1021	1.6	29.6	746	**C222_29.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
64	936	1.7	27.2	740	**C222_27.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
65	928	2.6	26.9	1134	**C322_26.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
69	866	2.8	25.1	1126	**C322_25.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	138...141
72	837	1.9	24.3	721	**C222_24.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
81	740	2.1	21.5	715	**C222_21.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
85	711	0.9	20.6	371	**C122_20.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
87	690	2.2	20.0	695	**C222_20.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
95	634	1.0	18.4	358	**C122_18.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
96	625	2.4	18.1	688	**C222_18.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
102	592	1.0	17.2	358	**C122_17.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
110	546	2.6	15.8	660	**C222_15.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
113	532	1.1	15.4	393	**C122_15.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
120	501	2.7	14.5	658	**C222_14.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	130...133
130	462	1.2	13.4	383	**C122_13.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
147	409	1.3	11.9	365	**C122_11.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
174	347	1.5	10.1	360	**C122_10.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
198	305	1.6	8.8	348	**C122_8.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
229	263	1.7	7.6	338	**C122_7.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125

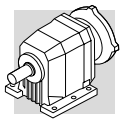


1 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IE2	IE3	NEMA	
280	215	2.0	6.2	313	**C122_6.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
312	193	2.1	5.6	301	**C122_5.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
358	168	2.3	4.9	295	**C122_4.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
405	149	2.5	4.3	281	**C122_4.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
478	126	2.7	3.7	272	**C122_3.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125
544	111	2.9	3.2	262	**C122_3.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	122...125

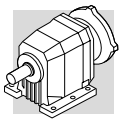
1.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IE2	IE3	NEMA	
1.4	59288	1.1	1240.4	12504	**C904_1240**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
1.5	54347	1.2	1137.1	12504	**C904_1137**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
1.6	51673	2.1	1081.1	17714	**C1004_1081**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	196...199
1.7	48090	1.3	1006.1	12504	**C904_1006**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
1.7	47982	2.2	1003.9	17714	**C1004_1004**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	196...199
1.9	44082	1.4	922.3	12504	**C904_922.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
1.9	43409	2.4	908.2	17714	**C1004_908.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	196...199
2.1	40338	1.6	844.0	12504	**C904_844.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
2.1	40308	2.6	843.3	17714	**C1004_843.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	196...199
2.2	37442	0.9	783.4	7286	**C804_783.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
2.2	37076	2.9	775.7	17714	**C1004_775.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	196...199
2.2	36976	1.7	773.6	12504	**C904_773.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
2.4	34638	1.0	724.7	7286	**C804_724.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
2.4	34039	1.9	712.2	12504	**C904_712.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
2.6	31752	1.1	664.3	7286	**C804_664.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
2.7	31203	2.0	652.8	12504	**C904_652.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
3.0	27855	2.3	582.8	12504	**C904_582.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
3.0	27597	1.3	577.4	7286	**C804_577.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
3.3	25534	2.5	534.2	12504	**C904_534.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
3.3	25297	1.4	529.3	7286	**C804_529.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
3.8	21850	2.9	457.1	12504	**C904_457.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	190...193
3.8	21768	1.6	455.4	7286	**C804_455.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
3.9	21198	1.0	443.5	5210	**C704_443.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
4.2	19954	1.8	417.5	7286	**C804_417.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
4.3	19568	1.0	409.4	5210	**C704_409.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
4.8	17429	2.0	364.7	7286	**C804_364.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
5.1	16459	1.2	344.3	5210	**C704_344.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
5.2	15977	2.2	334.3	7286	**C804_334.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
5.5	15193	1.3	317.9	5210	**C704_317.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
5.8	14422	1.0	301.7	3288	**C614_301.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
6.1	13653	2.6	285.7	7286	**C804_285.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
6.3	13157	1.1	275.3	3288	**C614_275.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
6.4	13011	1.6	272.2	5210	**C704_272.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
6.6	12516	2.8	261.9	7286	**C804_261.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	184...187
6.9	12010	1.7	251.3	5210	**C704_251.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
7.3	11820	1.7	239.3	5210	**C703_239.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
7.3	11390	1.2	238.3	3288	**C614_238.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
7.9	10911	1.8	220.9	5210	**C703_220.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
8.0	10391	1.4	217.4	3288	**C614_217.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
8.8	9773	0.9	197.9	2050	**C513_197.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
8.9	9357	1.5	195.8	3288	**C613_195.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
9.0	9588	2.1	194.1	5210	**C703_194.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
9.7	8850	2.3	179.2	5210	**C703_179.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181



1.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
9.7	8536	1.7	178.6	3288	**C613_178.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
9.9	8681	1.0	175.8	2050	**C513_175.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
10.6	7860	1.8	164.5	3288	**C613_164.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
10.7	8042	2.5	162.8	5210	**C703_162.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
10.8	7927	1.1	160.5	2050	**C513_160.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
11.6	7423	2.7	150.3	5210	**C703_150.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
11.6	7171	2.0	150.0	3288	**C613_150.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
11.8	7282	1.2	147.4	2050	**C513_147.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
12.4	6714	2.1	140.5	3288	**C613_140.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
12.7	6786	3.0	137.4	5210	**C703_137.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	178...181
12.9	6649	1.3	134.6	2050	**C513_134.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
13.6	6125	2.3	128.1	3288	**C613_128.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
14.0	6145	1.4	124.4	2050	**C513_124.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
15.3	5430	2.6	113.6	3288	**C613_113.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
15.3	5611	1.6	113.6	2050	**C513_113.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
15.8	5436	1.0	110.1	1432	**C413_110.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
16.8	4954	2.9	103.6	3288	**C613_103.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	170...173
17.0	5053	1.1	102.3	1432	**C413_102.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
17.1	5028	1.8	101.8	2050	**C513_101.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
18.6	4610	1.2	93.3	1432	**C413_93.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
18.7	4591	1.9	93.0	2050	**C513_93.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
20.9	4105	1.0	83.1	1284	**C363_83.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
21.3	4026	1.3	81.5	1432	**C413_81.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
21.8	3944	2.2	79.9	2050	**C513_79.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
22.4	3832	1.0	77.6	1336	**C363_77.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
23.4	3673	1.4	74.4	1432	**C413_74.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
23.9	3602	2.5	72.9	2050	**C513_72.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
24.6	3495	1.1	70.8	1336	**C363_70.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
26.9	3190	2.8	64.6	2050	**C513_64.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
27.1	3175	1.6	64.3	1432	**C413_64.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
28.1	3063	1.3	62.0	1336	**C363_62.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
29.5	2913	2.9	59.0	2050	**C513_59.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
29.7	2897	1.7	58.7	1432	**C413_58.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
31	2877	2.3	57.0	2050	**C512_57.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
31	2774	1.4	56.2	1336	**C363_56.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
33	2645	1.0	52.4	1134	**C322_52.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
34	2543	1.9	51.5	1432	**C413_51.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
34	2593	2.3	51.4	2050	**C512_51.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
36	2379	1.7	48.2	1336	**C363_48.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
36	2413	2.9	47.8	2050	**C512_47.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
37	2319	2.1	47.0	1432	**C413_47.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
38	2283	1.2	45.3	1134	**C322_45.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
39	2258	2.0	44.8	1432	**C412_44.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
40	2147	1.8	43.5	1336	**C363_43.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
40	2175	3.0	43.1	2050	**C512_43.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	162...165
43	2055	1.2	40.7	1134	**C322_40.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
43	1992	2.5	40.3	1432	**C413_40.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
46	1880	2.0	38.1	1336	**C363_38.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
47	1870	2.2	37.1	1432	**C412_37.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
47	1817	2.7	36.8	1432	**C413_36.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
48	1821	1.4	36.1	1134	**C322_36.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
50	1709	2.3	34.6	1295	**C363_34.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
52	1684	2.4	33.4	1432	**C412_33.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
53	1669	1.0	33.1	629	**C222_33.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
53	1669	1.5	33.1	1117	**C322_33.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
55	1586	2.6	31.4	1432	**C412_31.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157

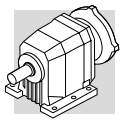


1.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
58	1502	1.6	29.8	1105	**C322_29.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
59	1494	1.1	29.6	655	**C222_29.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
61	1418	2.8	28.7	1272	**C363_28.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	146...149
61	1428	2.9	28.3	1432	**C412_28.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	154...157
64	1370	1.2	27.2	649	**C222_27.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
65	1358	1.8	26.9	1076	**C322_26.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
69	1267	1.9	25.1	1068	**C322_25.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
72	1225	1.3	24.3	647	**C222_24.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
76	1156	2.1	22.9	1041	**C322_22.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
81	1082	1.5	21.5	641	**C222_21.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
87	1013	2.4	20.1	1014	**C322_20.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
87	1010	1.5	20.0	633	**C222_20.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
96	917	2.4	18.2	981	**C322_18.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
96	915	1.6	18.1	621	**C222_18.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
110	799	1.8	15.8	610	**C222_15.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
112	787	2.8	15.6	954	**C322_15.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
120	734	1.9	14.5	604	**C222_14.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
124	710	2.9	14.1	924	**C322_14.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	138...141
140	626	2.1	12.4	584	**C222_12.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
147	599	0.9	11.9	328	**C122_11.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
157	559	2.2	11.1	575	**C222_11.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
173	507	1.0	10.1	287	**C122_10.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
180	487	2.4	9.6	555	**C222_9.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
197	446	1.1	8.8	319	**C122_8.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
201	437	2.6	8.7	540	**C222_8.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
228	385	1.2	7.6	317	**C122_7.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
246	357	3.0	7.1	516	**C222_7.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
279	314	1.4	6.2	250	**C122_6.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
286	307	2.8	6.1	489	**C222_6.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
311	282	1.5	5.6	260	**C122_5.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
311	282	2.9	5.6	483	**C222_5.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	130...133
357	246	1.6	4.9	281	**C122_4.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
404	218	1.7	4.3	270	**C122_4.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
477	184	1.9	3.7	262	**C122_3.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
542	162	2.0	3.2	252	**C122_3.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125
629	140	2.2	2.8	244	**C122_2.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	122...125

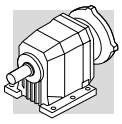
2 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
1.6	70620	1.5	1081.1	17714	**C1004_1081**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
1.7	65723	1.0	1006.1	12504	**C904_1006**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
1.7	65575	1.6	1003.9	17714	**C1004_1004**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
1.9	60246	1.1	922.3	12504	**C904_922.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
1.9	59325	1.8	908.2	17714	**C1004_908.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
2.1	55128	1.2	844.0	12504	**C904_844.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
2.1	55088	1.9	843.3	17714	**C1004_843.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
2.2	50670	2.1	775.7	17714	**C1004_775.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
2.2	50534	1.3	773.6	12504	**C904_773.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
2.4	47051	2.3	720.3	17714	**C1004_720.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
2.4	46520	1.4	712.2	12504	**C904_712.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
2.7	42644	1.5	652.8	12504	**C904_652.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193



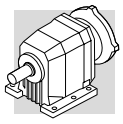
2 hp

n_2	T_2	S	i	R_{n2}							
rpm	lb·in			lbs		IE2	IE3	IE2	IE3	NEMA	
2.8	40983	2.6	627.4	17714	**C1004_627.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
3.0	38068	1.7	582.8	12504	**C904_582.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
3.0	38056	2.8	582.6	17714	**C1004_582.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	196...199
3.0	37715	0.9	577.4	7286	**C804_577.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
3.3	34896	1.8	534.2	12504	**C904_534.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
3.3	34572	1.0	529.3	7286	**C804_529.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
3.8	29861	2.1	457.1	12504	**C904_457.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
3.8	29750	1.2	455.4	7286	**C804_455.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
4.2	27373	2.3	419.0	12504	**C904_419.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
4.2	27270	1.3	417.5	7286	**C804_417.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
4.7	24154	2.6	369.8	12504	**C904_369.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
4.8	23820	1.5	364.7	7286	**C804_364.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
5.1	22493	0.9	344.3	5210	**C704_344.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
5.1	22141	2.9	339.0	12504	**C904_339.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	190...193
5.2	21835	1.6	334.3	7286	**C804_334.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
5.5	20763	1.0	317.9	5210	**C704_317.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
6.1	18660	1.9	285.7	7286	**C804_285.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
6.4	17782	1.1	272.2	5210	**C704_272.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
6.6	17105	2.1	261.9	7286	**C804_261.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
6.9	16414	1.2	251.3	5210	**C704_251.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
7.3	16154	1.3	239.3	5210	**C703_239.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
7.3	15567	0.9	238.3	3288	**C614_238.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
7.9	14911	1.3	220.9	5210	**C703_220.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
8.0	14201	1.0	217.4	3288	**C614_217.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
8.1	14569	2.4	215.8	7286	**C803_215.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
8.8	13355	2.7	197.9	7286	**C803_197.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
8.9	12788	1.1	195.8	3288	**C613_195.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
9.0	13103	1.6	194.1	5210	**C703_194.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
9.4	12444	2.8	184.4	7286	**C803_184.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	184...187
9.7	12095	1.7	179.2	5210	**C703_179.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
9.7	11666	1.2	178.6	3288	**C613_178.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
10.6	10743	1.3	164.5	3288	**C613_164.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
10.7	10991	1.9	162.8	5210	**C703_162.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
11.6	10145	2.0	150.3	5210	**C703_150.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
11.6	9800	1.4	150.0	3288	**C613_150.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
12.4	9175	1.5	140.5	3288	**C613_140.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
12.7	9275	2.2	137.4	5210	**C703_137.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
12.9	9087	1.0	134.6	2050	**C513_134.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
13.6	8370	1.7	128.1	3288	**C613_128.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
13.7	8561	2.4	126.8	5210	**C703_126.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
14.0	8398	1.1	124.4	2050	**C513_124.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
15.3	7421	1.9	113.6	3288	**C613_113.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
15.3	7668	1.2	113.6	2050	**C513_113.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
15.5	7590	2.7	112.4	5210	**C703_112.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
16.8	7006	2.9	103.8	5210	**C703_103.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	178...181
16.8	6770	2.1	103.6	3288	**C613_103.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
17.1	6872	1.3	101.8	2050	**C513_101.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
18.7	6275	1.4	93.0	2050	**C513_93.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
19.1	5945	2.4	91.0	3288	**C613_91.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
21.0	5424	2.6	83.0	3288	**C613_83.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
21.3	5502	1.0	81.5	1432	**C413_81.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
21.8	5391	1.6	79.9	2050	**C513_79.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
23.4	5019	1.0	74.4	1432	**C413_74.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
23.5	4847	2.8	74.2	3288	**C613_74.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173
23.9	4922	1.8	72.9	2050	**C513_72.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
25.7	4422	3.0	67.7	3288	**C613_67.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	170...173



2 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
26.9	4360	2.0	64.6	2050	**C513_64.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
27.1	4340	1.1	64.3	1432	**C413_64.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
28.1	4187	1.0	62.0	1233	**C363_62.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
29.5	3981	2.2	59.0	2050	**C513_59.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
29.7	3959	1.2	58.7	1432	**C413_58.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
31	3932	1.7	57.0	2050	**C512_57.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
31	3791	1.1	56.2	1305	**C363_56.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
34	3475	1.4	51.5	1432	**C413_51.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
34	3544	1.7	51.4	2050	**C512_51.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
34	3454	2.4	51.2	2050	**C513_51.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
36	3251	1.2	48.2	1292	**C363_48.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
36	3298	2.1	47.8	2050	**C512_47.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
37	3170	1.6	47.0	1432	**C413_47.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
37	3154	2.6	46.7	2050	**C513_46.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
39	3086	1.4	44.8	1432	**C412_44.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
40	2935	1.3	43.5	1255	**C363_43.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
40	2973	2.2	43.1	2050	**C512_43.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
43	2808	0.9	40.7	1041	**C322_40.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
43	2732	3.0	40.5	2050	**C513_40.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
43	2783	2.5	40.4	2050	**C512_40.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
43	2722	1.8	40.3	1432	**C413_40.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
46	2570	1.5	38.1	1255	**C363_38.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
47	2556	1.6	37.1	1432	**C412_37.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
47	2483	2.0	36.8	1432	**C413_36.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
48	2509	2.6	36.4	2050	**C512_36.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	162...165
48	2489	1.0	36.1	1051	**C322_36.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
50	2335	1.7	34.6	1223	**C363_34.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
52	2302	1.8	33.4	1432	**C412_33.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
53	2282	1.1	33.1	1041	**C322_33.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
55	2168	1.9	31.4	1430	**C412_31.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
56	2108	2.2	31.2	1391	**C413_31.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
58	2052	1.2	29.8	1025	**C322_29.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
61	1938	2.1	28.7	1198	**C363_28.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
61	1923	2.4	28.5	1328	**C413_28.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
61	1952	2.1	28.3	1397	**C412_28.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
65	1855	1.3	26.9	1008	**C322_26.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
66	1769	2.2	26.2	1173	**C363_26.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
69	1732	1.4	25.1	998	**C322_25.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
69	1727	2.4	25.0	1367	**C412_25.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
72	1674	1.0	24.3	545	**C222_24.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
76	1580	1.5	22.9	979	**C322_22.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
77	1555	2.6	22.6	1332	**C412_22.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
79	1494	2.5	22.1	1136	**C363_22.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
81	1479	1.1	21.5	534	**C222_21.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
87	1385	1.7	20.1	959	**C322_20.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
87	1381	1.1	20.0	563	**C222_20.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
88	1362	2.9	19.8	1295	**C412_19.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	154...157
92	1310	2.6	19.0	1095	**C362_19.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
96	1254	1.8	18.2	932	**C322_18.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
96	1251	1.2	18.1	555	**C222_18.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
101	1186	2.8	17.2	1056	**C362_17.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	146...149
110	1092	1.3	15.8	555	**C222_15.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
112	1075	2.0	15.6	909	**C322_15.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
120	1003	1.4	14.5	555	**C222_14.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
124	970	2.1	14.1	882	**C322_14.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
140	856	1.5	12.4	540	**C222_12.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133

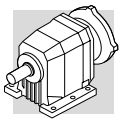


2 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
141	850	2.3	12.3	862	**C322_12.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
155	772	2.4	11.2	835	**C322_11.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
157	764	1.6	11.1	534	**C222_11.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
180	665	1.8	9.6	520	**C222_9.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
187	641	2.8	9.3	804	**C322_9.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
201	597	1.9	8.7	508	**C222_8.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
205	585	2.9	8.5	781	**C322_8.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	138...141
246	488	2.2	7.1	489	**C222_7.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
279	430	1.0	6.2	123	**C122_6.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	122...125
286	420	2.0	6.1	462	**C222_6.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
311	386	1.1	5.6	147	**C122_5.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	122...125
311	385	2.2	5.6	452	**C222_5.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
357	336	1.2	4.9	172	**C122_4.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	122...125
365	329	2.5	4.8	440	**C222_4.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
404	297	1.2	4.3	190	**C122_4.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	122...125
409	294	2.6	4.3	432	**C222_4.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
469	256	2.9	3.7	415	**C222_3.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	130...133
477	252	1.4	3.7	225	**C122_3.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	122...125
542	221	1.5	3.2	229	**C122_3.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	122...125
629	191	1.6	2.8	233	**C122_2.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	122...125

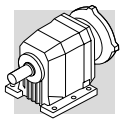
3 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
1.6	103346	1.0	1081.1	17714	**C1004_1081**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
1.7	95964	1.1	1003.9	17714	**C1004_1004**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
1.9	86817	1.2	908.2	17714	**C1004_908.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
2.1	80616	1.3	843.3	17714	**C1004_843.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
2.2	74151	1.4	775.7	17714	**C1004_775.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
2.4	68855	1.5	720.3	17714	**C1004_720.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
2.5	68078	0.9	712.2	12504	**C904_712.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
2.7	62405	1.0	652.8	12504	**C904_652.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
2.8	59975	1.8	627.4	17714	**C1004_627.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
3.0	55710	1.1	582.8	12504	**C904_582.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
3.0	55691	1.9	582.6	17714	**C1004_582.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
3.3	51067	1.2	534.2	12504	**C904_534.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
3.5	48048	2.2	502.6	17714	**C1004_502.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
3.7	44616	2.4	466.7	17714	**C1004_466.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
3.8	43699	1.5	457.1	12504	**C904_457.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
4.2	40057	1.6	419.0	12504	**C904_419.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
4.3	39170	2.7	409.8	17714	**C1004_409.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
4.6	36373	2.9	380.5	17714	**C1004_380.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	196...199
4.7	35347	1.8	369.8	12504	**C904_369.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
4.8	34859	1.0	364.7	7286	**C804_364.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
5.1	32401	2.0	339.0	12504	**C904_339.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
5.2	31954	1.1	334.3	7286	**C804_334.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
6.0	27999	2.3	292.9	12504	**C904_292.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
6.1	27307	1.3	285.7	7286	**C804_285.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
6.5	25666	2.5	268.5	12504	**C904_268.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
6.7	25031	1.4	261.9	7286	**C804_261.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
7.5	22148	2.9	231.7	12504	**C904_231.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	190...193
7.9	21822	0.9	220.9	5210	**C703_220.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
8.1	21321	1.7	215.8	7286	**C803_215.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187



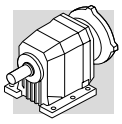
3 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
8.8	19544	1.8	197.9	7286	**C803_197.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
9.0	19175	1.1	194.1	5210	**C703_194.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
9.5	18210	1.9	184.4	7286	**C803_184.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
9.7	17700	1.2	179.2	5210	**C703_179.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
10.3	16693	2.1	169.0	7286	**C803_169.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
10.6	15721	0.9	164.5	3288	**C613_164.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
10.7	16084	1.3	162.8	5210	**C703_162.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
11.6	14847	1.4	150.3	5210	**C703_150.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
11.6	14342	1.0	150.0	3288	**C613_150.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
11.7	14729	2.4	149.1	7286	**C803_149.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
12.4	13427	1.1	140.5	3288	**C613_140.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
12.7	13573	1.5	137.4	5210	**C703_137.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
12.8	13502	2.6	136.7	7286	**C803_136.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	184...187
13.6	12249	1.2	128.1	3288	**C613_128.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
13.8	12529	1.6	126.8	5210	**C703_126.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
15.4	10860	1.3	113.6	3288	**C613_113.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
15.5	11107	1.8	112.4	5210	**C703_112.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
16.8	10252	2.0	103.8	5210	**C703_103.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
16.8	9908	1.4	103.6	3288	**C613_103.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
18.8	9183	1.0	93.0	2050	**C513_93.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
19.2	8701	1.6	91.0	3288	**C613_91.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
19.8	8712	2.3	88.2	5210	**C703_88.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
21.0	7937	1.8	83.0	3288	**C613_83.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
21.4	8042	2.5	81.4	5210	**C703_81.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
21.9	7889	1.1	79.9	2050	**C513_79.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
23.5	7093	1.9	74.2	3288	**C613_74.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
23.9	7203	1.2	72.9	2050	**C513_72.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
24.5	7047	2.8	71.3	5210	**C703_71.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
25.8	6471	2.0	67.7	3288	**C613_67.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
26.5	6505	3.0	65.9	5210	**C703_65.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	178...181
27.0	6381	1.4	64.6	2050	**C513_64.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
29.6	5826	1.5	59.0	2050	**C513_59.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
29.8	5602	2.3	58.6	3288	**C613_58.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
31	5754	1.1	57.0	2050	**C512_57.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
33	5110	2.6	53.5	3288	**C613_53.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
34	5085	1.0	51.5	1346	**C413_51.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
34	5187	1.1	51.4	2050	**C512_51.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
34	5055	1.6	51.2	2050	**C513_51.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
36	4826	1.5	47.8	2050	**C512_47.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
37	4553	2.9	47.6	3288	**C613_47.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
37	4639	1.1	47.0	1317	**C413_47.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
37	4615	1.8	46.7	2050	**C513_46.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
39	4516	1.0	44.8	1330	**C412_44.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
40	4294	0.9	43.5	1142	**C363_43.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
40	4350	1.5	43.1	2050	**C512_43.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
43	3998	2.0	40.5	2050	**C513_40.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
43	4073	1.7	40.4	2050	**C512_40.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
43	3983	1.2	40.3	1322	**C413_40.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
46	3761	1.0	38.1	1130	**C363_38.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
46	3834	3.0	38.0	3288	**C612_38.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
47	3740	1.1	37.1	1303	**C412_37.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
47	3651	2.2	37.0	2050	**C513_37.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
47	3634	1.4	36.8	1307	**C413_36.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
48	3671	1.8	36.4	2050	**C512_36.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
50	3417	1.2	34.6	1099	**C363_34.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
51	3453	3.0	34.2	3288	**C612_34.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	170...173
52	3369	1.2	33.4	1287	**C412_33.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
53	3333	2.1	33.0	2050	**C512_33.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165



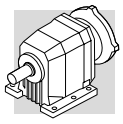
3 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
56	3172	1.3	31.4	1287	**C412_31.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
56	3085	1.5	31.2	1258	**C413_31.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
58	2969	2.7	30.1	2050	**C513_30.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
59	3004	2.3	29.8	2050	**C512_29.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
61	2836	1.4	28.7	1073	**C363_28.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
61	2814	1.6	28.5	1203	**C413_28.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
62	2857	1.4	28.3	1266	**C412_28.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
64	2711	2.9	27.4	2050	**C513_27.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
67	2589	1.5	26.2	1056	**C363_26.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
67	2614	2.5	25.9	2050	**C512_25.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
69	2534	1.0	25.1	880	**C322_25.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
70	2527	1.6	25.0	1252	**C412_25.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
75	2357	2.8	23.4	2050	**C512_23.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	162...165
76	2312	1.0	22.9	874	**C322_22.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
77	2276	1.8	22.6	1227	**C412_22.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
79	2186	1.7	22.1	1040	**C363_22.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
87	2026	1.2	20.1	866	**C322_20.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
88	1993	2.0	19.8	1205	**C412_19.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
92	1918	1.8	19.0	1011	**C362_19.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
96	1835	1.2	18.2	849	**C322_18.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
98	1795	2.2	17.8	1178	**C412_17.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
101	1736	1.9	17.2	986	**C362_17.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
110	1596	2.3	15.8	1156	**C412_15.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
112	1573	1.4	15.6	837	**C322_15.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
118	1489	2.1	14.8	968	**C362_14.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
120	1468	0.9	14.5	458	**C222_14.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
122	1437	2.5	14.2	1127	**C412_14.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
124	1420	1.4	14.1	820	**C322_14.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
131	1344	2.3	13.3	943	**C362_13.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
141	1252	1.0	12.4	466	**C222_12.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
141	1250	2.8	12.4	1097	**C412_12.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	154...157
142	1244	1.6	12.3	804	**C322_12.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
150	1177	2.6	11.7	923	**C362_11.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
156	1130	1.7	11.2	783	**C322_11.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
157	1118	1.1	11.1	462	**C222_11.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
165	1070	2.9	10.6	888	**C362_10.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
181	973	1.2	9.6	462	**C222_9.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
188	938	1.9	9.3	761	**C322_9.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
202	873	1.3	8.7	456	**C222_8.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
206	856	2.0	8.5	742	**C322_8.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
244	723	2.3	7.2	717	**C322_7.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
246	715	1.5	7.1	448	**C222_7.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
279	632	2.1	6.3	670	**C322_6.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
287	614	1.4	6.1	419	**C222_6.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
298	590	2.8	5.8	762	**C362_5.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	146...149
309	571	2.2	5.7	656	**C322_5.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
312	564	1.5	5.6	421	**C222_5.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
352	500	2.5	5.0	639	**C322_5.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
366	481	1.7	4.8	405	**C222_4.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
388	454	2.7	4.5	618	**C322_4.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	138...141
410	430	1.8	4.3	405	**C222_4.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
471	374	2.0	3.7	388	**C222_3.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
478	368	0.9	3.7	145	**C122_3.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	122...125
525	336	2.1	3.3	388	**C222_3.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133
544	324	1.0	3.2	119	**C122_3.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	122...125
631	279	1.1	2.8	141	**C122_2.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	122...125
641	275	2.4	2.7	364	**C222_2.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	130...133



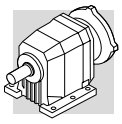
4 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
2.1	110847	1.0	843.3	17714	**C1004_843.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
2.2	101958	1.0	775.7	17714	**C1004_775.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
2.4	94675	1.1	720.3	17714	**C1004_720.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
2.8	82466	1.3	627.4	17714	**C1004_627.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
3.0	76575	1.4	582.6	17714	**C1004_582.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
3.2	70218	0.9	534.2	12504	**C904_534.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
3.5	66066	1.6	502.6	17714	**C1004_502.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
3.7	61347	1.7	466.7	17714	**C1004_466.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
3.8	60086	1.1	457.1	12504	**C904_457.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
4.1	55079	1.2	419.0	12504	**C904_419.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
4.2	53859	2.0	409.8	17714	**C1004_409.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
4.6	50012	2.1	380.5	17714	**C1004_380.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
4.7	48602	1.3	369.8	12504	**C904_369.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
5.1	44551	1.4	339.0	12504	**C904_339.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
5.4	42537	2.5	323.6	17714	**C1004_323.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
5.8	39498	2.7	300.5	17714	**C1004_300.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	196...199
5.9	38499	1.7	292.9	12504	**C904_292.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
6.1	37547	0.9	285.7	7286	**C804_285.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
6.5	35291	1.8	268.5	12504	**C904_268.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
6.6	34418	1.0	261.9	7286	**C804_261.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
7.5	30453	2.1	231.7	12504	**C904_231.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
8.0	29316	1.2	215.8	7286	**C803_215.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
8.2	27915	2.3	212.4	12504	**C904_212.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
8.8	26873	1.3	197.9	7286	**C803_197.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
9.4	25039	1.4	184.4	7286	**C803_184.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
10.1	23375	2.7	172.1	12504	**C903_172.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
10.3	22953	1.5	169.0	7286	**C803_169.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
10.7	22115	0.9	162.8	5210	**C703_162.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
11.0	21427	2.9	157.8	12504	**C903_157.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	190...193
11.5	20414	1.0	150.3	5210	**C703_150.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
11.6	20252	1.7	149.1	7286	**C803_149.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
12.6	18662	1.1	137.4	5210	**C703_137.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
12.7	18565	1.9	136.7	7286	**C803_136.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
13.7	17227	1.2	126.8	5210	**C703_126.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
14.5	16225	2.2	119.5	7286	**C803_119.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
15.3	14933	0.9	113.6	3288	**C613_113.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
15.4	15272	1.3	112.4	5210	**C703_112.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
15.8	14873	2.4	109.5	7286	**C803_109.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
16.7	14097	1.4	103.8	5210	**C703_103.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
16.7	13623	1.0	103.6	3288	**C613_103.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
17.8	13227	2.6	97.4	7286	**C803_97.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
19.1	11963	1.2	91.0	3288	**C613_91.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
19.4	12125	2.8	89.3	7286	**C803_89.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	184...187
19.7	11979	1.7	88.2	5210	**C703_88.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
20.9	10914	1.3	83.0	3288	**C613_83.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
21.3	11058	1.8	81.4	5210	**C703_81.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
23.4	9753	1.4	74.2	3288	**C613_74.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
24.3	9690	2.0	71.3	5210	**C703_71.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
25.6	8897	1.5	67.7	3288	**C613_67.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
26.3	8944	2.2	65.9	5210	**C703_65.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
26.9	8774	1.0	64.6	2050	**C513_64.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
29.4	8011	1.1	59.0	2050	**C513_59.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
29.6	7703	1.7	58.6	3288	**C613_58.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
31	7675	2.5	56.5	5210	**C703_56.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181
32	7027	1.9	53.5	3288	**C613_53.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
33	7085	2.7	52.2	5210	**C703_52.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	178...181



4 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
34	6950	1.2	51.2	2050	**C513_51.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
36	6636	1.1	47.8	2050	**C512_47.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
36	6260	2.1	47.6	3288	**C613_47.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
37	6346	1.3	46.7	2050	**C513_46.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
40	5711	2.3	43.4	3288	**C613_43.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
40	5982	1.1	43.1	2050	**C512_43.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
43	5497	1.5	40.5	2050	**C513_40.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
43	5600	1.3	40.4	2050	**C512_40.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
46	5272	2.1	38.0	3288	**C612_38.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
47	5020	1.6	37.0	2050	**C513_37.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
47	4997	1.0	36.8	1133	**C413_36.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
48	5048	1.3	36.4	2050	**C512_36.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
48	4751	2.7	36.1	3288	**C613_36.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
51	4748	2.2	34.2	3288	**C612_34.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
53	4583	1.5	33.0	2050	**C512_33.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
53	4335	2.9	33.0	3288	**C613_33.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
55	4362	0.9	31.4	1123	**C412_31.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
56	4242	1.1	31.2	1135	**C413_31.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
57	4224	2.8	30.4	3267	**C612_30.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	170...173
58	4083	2.0	30.1	2050	**C513_30.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
58	4131	1.7	29.8	2050	**C512_29.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
60	3900	1.0	28.7	945	**C363_28.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
61	3870	1.2	28.5	1084	**C413_28.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
61	3928	1.0	28.3	1117	**C412_28.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
63	3728	2.1	27.4	2050	**C513_27.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
66	3560	1.1	26.2	925	**C363_26.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
67	3595	1.8	25.9	2050	**C512_25.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
69	3475	1.2	25.0	1121	**C412_25.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
73	3245	2.3	23.9	1974	**C513_23.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
74	3240	2.0	23.4	2050	**C512_23.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
77	3129	1.3	22.6	1109	**C412_22.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
78	3006	1.3	22.1	931	**C363_22.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
80	2963	2.5	21.8	1989	**C513_21.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
83	2908	2.2	21.0	2050	**C512_21.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
88	2741	1.5	19.8	1103	**C412_19.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
91	2637	1.3	19.0	914	**C362_19.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
92	2621	2.5	18.9	2050	**C512_18.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
98	2468	1.6	17.8	1084	**C412_17.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
101	2387	1.4	17.2	904	**C362_17.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
105	2303	2.8	16.6	2007	**C512_16.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	162...165
110	2195	1.7	15.8	1072	**C412_15.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
111	2163	1.0	15.6	759	**C322_15.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
118	2047	1.6	14.8	892	**C362_14.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
122	1976	1.8	14.2	1052	**C412_14.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
123	1953	1.0	14.1	752	**C322_14.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
130	1848	1.7	13.3	875	**C362_13.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
140	1719	2.0	12.4	1031	**C412_12.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
141	1710	1.2	12.3	738	**C322_12.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
149	1618	1.9	11.7	863	**C362_11.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
155	1554	1.2	11.2	726	**C322_11.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
155	1548	2.2	11.2	1009	**C412_11.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
164	1471	2.1	10.6	842	**C362_10.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
181	1331	2.4	9.6	982	**C412_9.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
187	1290	1.4	9.3	711	**C322_9.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
197	1221	2.6	8.8	820	**C362_8.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
200	1201	0.9	8.7	390	**C222_8.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
201	1199	2.6	8.6	941	**C412_8.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157

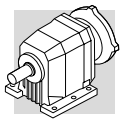


4 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
204	1177	1.4	8.5	701	**C322_8.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
216	1114	2.7	8.0	789	**C362_8.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
242	994	1.6	7.2	680	**C322_7.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
245	983	1.1	7.1	399	**C222_7.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
246	980	3.0	7.1	919	**C412_7.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
277	869	1.5	6.3	639	**C322_6.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
285	845	1.0	6.1	329	**C222_6.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
291	826	2.8	6.0	837	**C412_6.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	154...157
297	811	2.0	5.8	725	**C362_5.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
307	785	1.6	5.7	627	**C322_5.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
310	776	1.1	5.6	360	**C222_5.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
329	732	2.2	5.3	695	**C362_5.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
350	687	1.8	5.0	608	**C322_5.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
364	662	1.2	4.8	366	**C222_4.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
375	641	2.6	4.6	672	**C362_4.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
386	624	2.0	4.5	594	**C322_4.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
407	591	1.3	4.3	370	**C222_4.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
413	583	2.8	4.2	655	**C362_4.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	146...149
465	518	2.4	3.7	573	**C322_3.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
468	514	1.4	3.7	358	**C222_3.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
509	473	2.4	3.4	555	**C322_3.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
522	461	1.5	3.3	358	**C222_3.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133
603	399	2.6	2.9	538	**C322_2.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	138...141
637	378	1.7	2.7	341	**C222_2.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	130...133

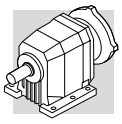
5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
2.4	114758	0.9	720.3	17714	**C1004_720.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
2.8	99959	1.1	627.4	17714	**C1004_627.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
3.0	92819	1.1	582.6	17714	**C1004_582.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
3.5	80081	1.3	502.6	17714	**C1004_502.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
3.7	74361	1.4	466.7	17714	**C1004_466.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
4.2	66762	1.0	419.0	12504	**C904_419.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
4.2	65284	1.6	409.8	17714	**C1004_409.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
4.6	60621	1.8	380.5	17714	**C1004_380.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
4.7	58911	1.1	369.8	12504	**C904_369.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
5.1	54002	1.2	339.0	12504	**C904_339.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
5.4	51560	2.1	323.6	17714	**C1004_323.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
5.8	47877	2.2	300.5	17714	**C1004_300.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
5.9	46666	1.4	292.9	12504	**C904_292.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
6.5	42777	1.5	268.5	12504	**C904_268.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
6.6	41902	2.5	263.0	17714	**C1004_263.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
7.1	38909	2.7	244.2	17714	**C1004_244.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	196...199
7.5	36913	1.7	231.7	12504	**C904_231.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
8.1	35535	1.0	215.8	7286	**C803_215.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
8.2	33837	1.9	212.4	12504	**C904_212.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
8.8	32574	1.1	197.9	7286	**C803_197.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
9.4	30351	1.2	184.4	7286	**C803_184.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
10.1	28334	2.2	172.1	12504	**C903_172.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
10.3	27821	1.3	169.0	7286	**C803_169.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
11.0	25973	2.4	157.8	12504	**C903_157.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
11.7	24548	1.4	149.1	7286	**C803_149.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
11.9	24090	2.6	146.3	12504	**C903_146.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193
12.7	22503	1.6	136.7	7286	**C803_136.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
13.0	22083	2.8	134.1	12504	**C903_134.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	190...193



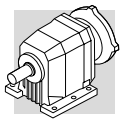
5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
13.7	20881	1.0	126.8	5210	**C703_126.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
14.6	19667	1.8	119.5	7286	**C803_119.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
15.5	18511	1.1	112.4	5210	**C703_112.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
15.9	18028	2.0	109.5	7286	**C803_109.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
16.8	17087	1.2	103.8	5210	**C703_103.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
17.9	16033	2.2	97.4	7286	**C803_97.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
19.1	14501	1.0	91.0	3288	**C613_91.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
19.5	14697	2.3	89.3	7286	**C803_89.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
19.7	14520	1.4	88.2	5210	**C703_88.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
21.0	13229	1.1	83.0	3288	**C613_83.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
21.4	13403	1.5	81.4	5210	**C703_81.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
22.6	12662	2.6	76.9	7286	**C803_76.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
23.5	11822	1.1	74.2	3288	**C613_74.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
24.4	11745	1.7	71.3	5210	**C703_71.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
24.7	11607	2.8	70.5	7286	**C803_70.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	184...187
25.7	10785	1.2	67.7	3288	**C613_67.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
26.4	10841	1.8	65.9	5210	**C703_65.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
29.7	9336	1.4	58.6	3288	**C613_58.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
31	9304	2.0	56.5	5210	**C703_56.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
33	8517	1.5	53.5	3288	**C613_53.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
33	8588	2.2	52.2	5210	**C703_52.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
34	8424	1.0	51.2	2050	**C513_51.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
37	7588	1.7	47.6	3288	**C613_47.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
37	7692	1.1	46.7	2050	**C513_46.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
39	7359	2.6	44.7	5210	**C703_44.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
40	6922	1.9	43.4	3288	**C613_43.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
42	6793	2.8	41.3	5210	**C703_41.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	178...181
43	6664	1.2	40.5	2050	**C513_40.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
43	6788	1.0	40.4	2050	**C512_40.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
46	6391	1.8	38.0	3288	**C612_38.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
47	6085	1.3	37.0	2050	**C513_37.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
48	6119	1.1	36.4	2050	**C512_36.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
48	5759	2.2	36.1	3226	**C613_36.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
51	5755	1.8	34.2	3226	**C612_34.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
53	5555	1.2	33.0	2050	**C512_33.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
53	5254	2.4	33.0	3185	**C613_33.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
56	5141	0.9	31.2	1054	**C413_31.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
57	5120	2.3	30.4	3144	**C612_30.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
58	4949	1.6	30.1	2026	**C513_30.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
58	5007	1.4	29.8	2050	**C512_29.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
59	4677	2.6	29.4	3082	**C613_29.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
61	4690	1.0	28.5	1031	**C413_28.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
63	4519	1.7	27.4	1958	**C513_27.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
63	4611	2.5	27.4	3062	**C612_27.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
65	4266	2.8	26.8	3021	**C613_26.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
66	4315	0.9	26.2	898	**C363_26.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
67	4357	1.5	25.9	2050	**C512_25.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
69	4212	1.0	25.0	1031	**C412_25.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
70	4174	2.9	24.8	3000	**C612_24.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
73	3933	1.9	23.9	1896	**C513_23.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
75	3928	1.7	23.4	2050	**C512_23.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
77	3793	1.1	22.6	1002	**C412_22.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
78	3759	2.9	22.4	2918	**C612_22.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	170...173
79	3644	1.0	22.1	884	**C363_22.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
80	3592	2.0	21.8	1974	**C513_21.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
83	3524	1.8	21.0	2034	**C512_21.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165



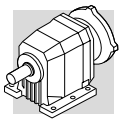
5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
88	3322	1.2	19.8	974	**C412_19.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
92	3196	1.1	19.0	867	**C362_19.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
92	3177	2.0	18.9	1995	**C512_18.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
98	2992	1.3	17.8	966	**C412_17.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
101	2894	1.1	17.2	861	**C362_17.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
105	2792	2.3	16.6	1935	**C512_16.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
110	2660	1.4	15.8	970	**C412_15.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
116	2516	2.6	15.0	1892	**C512_15.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
118	2481	1.3	14.8	797	**C362_14.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
122	2396	1.5	14.2	959	**C412_14.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
131	2240	1.4	13.3	789	**C362_13.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
133	2208	2.8	13.1	1831	**C512_13.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	162...165
140	2084	1.7	12.4	953	**C412_12.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
141	2073	1.0	12.3	680	**C322_12.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
149	1962	1.6	11.7	789	**C362_11.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
155	1884	1.0	11.2	666	**C322_11.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
156	1877	1.8	11.2	937	**C412_11.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
164	1783	1.7	10.6	777	**C362_10.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
181	1614	2.0	9.6	923	**C412_9.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
187	1563	1.1	9.3	649	**C322_9.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
198	1480	2.1	8.8	764	**C362_8.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
201	1453	2.2	8.6	904	**C412_8.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
205	1427	1.2	8.5	641	**C322_8.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
217	1350	2.2	8.0	750	**C362_8.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
243	1205	1.4	7.2	633	**C322_7.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
246	1188	2.4	7.1	876	**C412_7.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
257	1140	2.6	6.8	736	**C362_6.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
273	1070	2.6	6.4	855	**C412_6.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
278	1053	1.3	6.3	585	**C322_6.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
292	1001	2.3	6.0	786	**C412_6.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
298	983	1.7	5.8	680	**C362_5.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
308	951	1.3	5.7	573	**C322_5.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
330	888	1.8	5.3	658	**C362_5.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
351	833	1.5	5.0	569	**C322_5.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
365	802	1.0	4.8	277	**C222_4.8**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	130...133
373	784	2.9	4.7	716	**C412_4.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	154...157
376	777	2.1	4.6	653	**C362_4.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
387	757	1.6	4.5	555	**C322_4.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
409	716	1.1	4.3	267	**C222_4.3**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	130...133
414	706	2.3	4.2	629	**C362_4.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
466	628	1.9	3.7	544	**C322_3.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
469	623	1.2	3.7	321	**C222_3.7**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	130...133
499	586	2.8	3.5	618	**C362_3.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	146...149
510	573	2.0	3.4	532	**C322_3.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
523	559	1.2	3.3	316	**C222_3.3**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	130...133
604	484	2.2	2.9	515	**C322_2.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	138...141
639	458	1.4	2.7	314	**C222_2.7**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	130...133



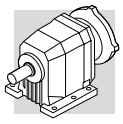
7.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
3.8	111541	1.0	466.7	17714	**C1004_466.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
4.3	97926	1.1	409.8	17714	**C1004_409.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
4.6	90931	1.2	380.5	17714	**C1004_380.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
5.4	77340	1.4	323.6	17714	**C1004_323.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
5.9	71815	1.5	300.5	17714	**C1004_300.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
6.0	69998	0.9	292.9	12504	**C904_292.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
6.6	64165	1.0	268.5	12504	**C904_268.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
6.7	62853	1.7	263.0	17714	**C1004_263.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
7.2	58363	1.8	244.2	17714	**C1004_244.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
7.6	55369	1.2	231.7	12504	**C904_231.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
8.3	50755	1.3	212.4	12504	**C904_212.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
8.8	47708	2.2	199.6	17714	**C1004_199.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
9.5	44300	2.4	185.4	17714	**C1004_185.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
10.2	42500	1.5	172.1	12504	**C903_172.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
10.9	38740	2.7	162.1	17714	**C1004_162.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
11.2	38959	1.6	157.8	12504	**C903_157.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
11.7	37147	2.9	150.4	17714	**C1003_150.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
11.8	36822	1.0	149.1	7182	**C803_149.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
12.0	36136	1.8	146.3	12504	**C903_146.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
12.6	34494	2.8	139.7	17714	**C1003_139.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	196...199
12.9	33754	1.0	136.7	7182	**C803_136.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
13.1	33124	1.9	134.1	12504	**C903_134.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
14.7	29500	1.2	119.5	7286	**C803_119.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
15.1	28826	2.2	116.7	12504	**C903_116.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
16.1	27041	1.3	109.5	7286	**C803_109.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
16.4	26424	2.4	107.0	12504	**C903_107.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
18.1	24049	1.4	97.4	7286	**C803_97.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
18.3	23766	2.7	96.2	12504	**C903_96.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
19.7	22045	1.6	89.3	7286	**C803_89.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
20.0	21786	2.9	88.2	12504	**C903_88.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	190...193
20.0	21780	0.9	88.2	4793	**C703_88.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
21.6	20105	1.0	81.4	4793	**C703_81.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
22.9	18993	1.7	76.9	7286	**C803_76.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
24.7	17617	1.1	71.3	5210	**C703_71.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
25.0	17411	1.9	70.5	7286	**C803_70.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
26.7	16262	1.2	65.9	5210	**C703_65.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
28.2	15436	2.1	62.5	7286	**C803_62.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
30	14005	0.9	58.6	3000	**C613_58.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
31	14149	2.3	57.3	7286	**C803_57.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
31	13955	1.4	56.5	5210	**C703_56.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
33	12776	1.0	53.5	3082	**C613_53.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
34	12882	1.5	52.2	5147	**C703_52.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
37	11381	1.2	47.6	3144	**C613_47.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
37	11716	2.7	47.4	7286	**C803_47.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
39	11039	1.7	44.7	5022	**C703_44.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
40	10740	2.9	43.5	7286	**C803_43.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
41	10383	1.3	43.4	3082	**C613_43.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
43	10190	1.9	41.3	4960	**C703_41.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
45	9866	2.7	39.1	7286	**C802_39.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	184...187
46	9586	1.2	38.0	3041	**C612_38.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
49	8639	1.5	36.1	3041	**C613_36.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
51	8765	2.1	34.7	4606	**C702_34.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
51	8633	1.2	34.2	2979	**C612_34.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
53	7881	1.6	33.0	2979	**C613_33.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
58	7680	1.6	30.4	2938	**C612_30.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
59	7423	1.1	30.1	1970	**C513_30.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165



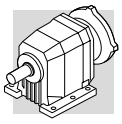
7.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
59	7510	0.9	29.8	1866	**C512_29.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
60	7015	1.7	29.4	2877	**C613_29.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
63	6992	2.7	27.7	4418	**C702_27.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	178...181
64	6778	1.2	27.4	1946	**C513_27.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
64	6916	1.7	27.4	2856	**C612_27.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
66	6400	1.8	26.8	2836	**C613_26.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
68	6536	1.0	25.9	1917	**C512_25.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
71	6261	1.9	24.8	2815	**C612_24.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
74	5900	1.3	23.9	1956	**C513_23.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
75	5891	1.1	23.4	1909	**C512_23.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
79	5638	2.0	22.4	2753	**C612_22.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
81	5387	1.4	21.8	1817	**C513_21.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
84	5287	1.2	21.0	1876	**C512_21.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
90	4944	2.3	19.6	2692	**C612_19.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
93	4765	1.4	18.9	1851	**C512_18.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
100	4453	2.5	17.7	2610	**C612_17.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
106	4188	1.5	16.6	1806	**C512_16.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
110	4018	2.8	15.9	2568	**C612_15.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	170...173
111	3990	0.9	15.8	839	**C412_15.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
118	3775	1.7	15.0	1776	**C512_15.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
124	3594	1.0	14.2	818	**C412_14.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
132	3360	0.9	13.3	686	**C362_13.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
134	3312	1.8	13.1	1726	**C512_13.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
142	3126	1.1	12.4	831	**C412_12.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
149	2986	2.1	11.8	1691	**C512_11.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
151	2943	1.1	11.7	695	**C362_11.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
158	2815	1.2	11.2	824	**C412_11.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
166	2674	1.2	10.6	688	**C362_10.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
180	2460	2.3	9.8	1618	**C512_9.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
183	2421	1.3	9.6	824	**C412_9.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
200	2219	1.4	8.8	688	**C362_8.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
200	2217	2.5	8.8	1579	**C512_8.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
204	2180	1.4	8.6	777	**C412_8.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
219	2026	1.5	8.0	684	**C362_8.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
227	1955	2.7	7.8	1529	**C512_7.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
246	1807	0.9	7.2	526	**C322_7.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	138...141
249	1782	1.6	7.1	802	**C412_7.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
252	1762	2.9	7.0	1493	**C512_7.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
260	1711	1.7	6.8	674	**C362_6.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
277	1605	1.8	6.4	786	**C412_6.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
296	1502	1.5	6.0	702	**C412_6.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
301	1475	1.1	5.8	621	**C362_5.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
313	1420	2.5	5.6	1378	**C512_5.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	162...165
333	1331	1.2	5.3	602	**C362_5.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
355	1249	1.0	5.0	511	**C322_5.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	138...141
377	1176	2.0	4.7	687	**C412_4.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
381	1166	1.4	4.6	588	**C362_4.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
391	1135	1.1	4.5	515	**C322_4.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	138...141
419	1059	1.5	4.2	581	**C362_4.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
471	942	1.3	3.7	497	**C322_3.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	138...141
487	911	2.5	3.6	663	**C412_3.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	154...157
505	879	1.9	3.5	565	**C362_3.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
516	860	1.3	3.4	489	**C322_3.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	138...141
553	803	2.0	3.2	555	**C362_3.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149
611	726	1.5	2.9	476	**C322_2.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	138...141
655	678	2.4	2.7	538	**C362_2.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	146...149



10 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
5.4	105697	1.0	323.6	17714	**C1004_323.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
5.9	98148	1.1	300.5	17714	**C1004_300.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
6.7	85899	1.2	263.0	17714	**C1004_263.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
7.2	79763	1.3	244.2	17714	**C1004_244.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
8.3	69365	0.9	212.4	12504	**C904_212.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
8.8	65200	1.6	199.6	17714	**C1004_199.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
9.5	60543	1.8	185.4	17714	**C1004_185.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
10.2	58084	1.1	172.1	12504	**C903_172.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
10.9	52945	2.0	162.1	17714	**C1004_162.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
11.2	53244	1.2	157.8	12504	**C903_157.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
11.7	50768	2.1	150.4	17714	**C1003_150.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
12.0	49385	1.3	146.3	12421	**C903_146.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
12.6	47142	2.1	139.7	17714	**C1003_139.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
13.1	45270	1.4	134.1	12379	**C903_134.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
14.6	40672	2.6	120.5	17714	**C1003_120.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
15.1	39396	1.6	116.7	12212	**C903_116.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
15.7	37767	2.8	111.9	17714	**C1003_111.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	196...199
16.1	36957	1.0	109.5	7182	**C803_109.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
16.4	36113	1.7	107.0	12129	**C903_107.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
18.1	32867	1.1	97.4	7182	**C803_97.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
18.3	32480	2.0	96.2	11983	**C903_96.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
19.7	30128	1.1	89.3	7286	**C803_89.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
20.0	29774	2.1	88.2	11795	**C903_88.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
21.7	27409	2.3	81.2	11691	**C903_81.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
22.9	25958	1.3	76.9	7286	**C803_76.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
23.6	25125	2.5	74.4	11504	**C903_74.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
25.0	23795	1.4	70.5	7286	**C803_70.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
27.3	21796	2.9	64.6	11254	**C903_64.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	190...193
28.2	21095	1.6	62.5	7286	**C803_62.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
31	19337	1.7	57.3	7286	**C803_57.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
31	19072	1.0	56.5	4689	**C703_56.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
34	17605	1.1	52.2	4772	**C703_52.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
37	16012	1.9	47.4	7286	**C803_47.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
39	15086	1.2	44.7	4689	**C703_44.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
40	14678	2.1	43.5	7286	**C803_43.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
41	14190	0.9	43.4	2733	**C613_43.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
43	13926	1.4	41.3	4647	**C703_41.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
45	13484	1.9	39.1	6995	**C802_39.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
49	11806	1.1	36.1	2733	**C613_36.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
51	11979	1.6	34.7	4272	**C702_34.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
53	10771	1.2	33.0	2692	**C613_33.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
56	10802	2.8	31.3	6703	**C802_31.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	184...187
58	10495	1.1	30.4	2671	**C612_30.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
60	9587	1.3	29.4	2692	**C613_29.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
63	9556	1.9	27.7	4168	**C702_27.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
64	9452	1.2	27.4	2630	**C612_27.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
66	8746	1.3	26.8	2630	**C613_26.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
71	8556	1.4	24.8	2610	**C612_24.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
74	8064	0.9	23.9	1681	**C513_23.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
77	7879	2.4	22.9	4043	**C702_22.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
79	7705	1.4	22.4	2568	**C612_22.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
81	7363	1.0	21.8	1476	**C513_21.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
90	6757	1.7	19.6	2527	**C612_19.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
91	6648	2.8	19.3	3939	**C702_19.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
93	6512	1.0	18.9	1456	**C512_18.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
100	6086	1.8	17.7	2466	**C612_17.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173

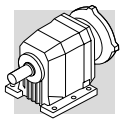


10 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
105	5758	2.9	16.7	3793	**C702_16.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	178...181
106	5723	1.1	16.6	1655	**C512_16.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
110	5492	2.0	15.9	2425	**C612_15.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
118	5159	1.3	15.0	1640	**C512_15.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
123	4946	2.2	14.3	2363	**C612_14.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
134	4527	1.3	13.1	1607	**C512_13.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
146	4168	2.7	12.1	2281	**C612_12.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
149	4081	1.5	11.8	1585	**C512_11.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
162	3754	3.0	10.9	2240	**C612_10.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
180	3362	1.7	9.8	1527	**C512_9.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
183	3308	1.0	9.6	675	**C412_9.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157
200	3033	1.0	8.8	592	**C362_8.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
200	3031	1.8	8.8	1501	**C512_8.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
204	2979	1.1	8.6	702	**C412_8.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157
219	2768	1.1	8.0	596	**C362_8.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
227	2672	1.9	7.8	1460	**C512_7.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
249	2436	1.2	7.1	710	**C412_7.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157
252	2409	2.1	7.0	1429	**C512_7.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
260	2338	1.2	6.8	596	**C362_6.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
277	2194	1.3	6.4	704	**C412_6.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157
293	2069	2.6	6.0	1886	**C612_6.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	170...173
296	2052	1.1	6.0	597	**C412_6.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157
313	1941	1.8	5.6	1314	**C512_5.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
333	1820	0.9	5.3	534	**C362_5.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
377	1608	1.4	4.7	606	**C412_4.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157
381	1593	1.0	4.6	534	**C362_4.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
395	1535	2.3	4.5	1249	**C512_4.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
419	1448	1.1	4.2	524	**C362_4.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
471	1288	0.9	3.7	437	**C322_3.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	138...141
487	1245	1.8	3.6	599	**C412_3.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157
505	1202	1.4	3.5	514	**C362_3.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
516	1175	1.0	3.4	429	**C322_3.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	138...141
532	1140	3.0	3.3	1160	**C512_3.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	162...165
553	1097	1.5	3.2	514	**C362_3.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
611	992	1.1	2.9	433	**C322_2.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	138...141
655	926	1.8	2.7	501	**C362_2.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	146...149
662	917	2.4	2.7	581	**C412_2.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	154...157

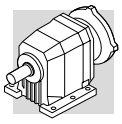
12.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
6.7	104755	1.0	263.0	17714	**C1004_263.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
7.2	97272	1.1	244.2	17714	**C1004_244.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
8.8	79513	1.3	199.6	17714	**C1004_199.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
9.5	73833	1.4	185.4	17714	**C1004_185.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
10.9	64567	1.6	162.1	17714	**C1004_162.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
11.2	64931	1.0	157.8	11629	**C903_157.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
11.7	61912	1.7	150.4	17714	**C1003_150.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
12.0	60226	1.1	146.3	11545	**C903_146.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
12.6	57490	1.7	139.7	17714	**C1003_139.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
13.1	55207	1.1	134.1	11441	**C903_134.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
14.6	49600	2.1	120.5	17714	**C1003_120.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199



12.5 hp

n_2	T_2	S	i	R_{n2}		IEC				NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
15.1	48044	1.3	116.7	11420	**C903_116.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
15.7	46057	2.3	111.9	17714	**C1003_111.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
16.4	44040	1.4	107.0	11379	**C903_107.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
17.6	41077	2.6	99.8	17714	**C1003_99.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
18.3	39610	1.6	96.2	11295	**C903_96.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
19.0	38143	2.8	92.7	17714	**C1003_92.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	196...199
19.7	36742	0.9	89.3	6662	**C803_89.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
20.0	36309	1.7	88.2	11191	**C903_88.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
21.7	33425	1.9	81.2	11108	**C903_81.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
22.9	31656	1.0	76.9	7015	**C803_76.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
23.6	30640	2.1	74.4	10983	**C903_74.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
25.0	29018	1.1	70.5	7286	**C803_70.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
27.3	26581	2.4	64.6	10795	**C903_64.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
28.2	25726	1.3	62.5	7286	**C803_62.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
29.7	24366	2.6	59.2	10649	**C903_59.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
31	23582	1.4	57.3	7286	**C803_57.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
32	22585	2.7	54.9	10524	**C903_54.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
35	20703	2.9	50.3	10357	**C903_50.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	190...193
37	19527	1.6	47.4	7265	**C803_47.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
39	18398	1.0	44.7	4397	**C703_44.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
40	17900	1.7	43.5	7161	**C803_43.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
43	16983	1.1	41.3	4376	**C703_41.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
45	16443	1.6	39.1	6724	**C802_39.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
51	14609	1.3	34.7	4001	**C702_34.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
53	13135	1.0	33.0	2486	**C613_33.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
56	13173	2.3	31.3	6474	**C802_31.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
58	12799	0.9	30.4	2527	**C612_30.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
60	11692	1.0	29.4	2158	**C613_29.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
63	11654	1.6	27.7	3939	**C702_27.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
64	11527	1.0	27.4	2137	**C612_27.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
66	10666	1.1	26.8	2342	**C613_26.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
68	10910	2.8	25.9	6308	**C802_25.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
71	10434	1.1	24.8	2425	**C612_24.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
73	10070	2.9	24.0	6245	**C802_24.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	184...187
77	9608	1.9	22.9	3855	**C702_22.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
79	9397	1.2	22.4	2404	**C612_22.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
90	8241	1.4	19.6	2384	**C612_19.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
91	8108	2.3	19.3	3772	**C702_19.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
100	7421	1.5	17.7	2342	**C612_17.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
105	7023	2.4	16.7	3647	**C702_16.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
106	6979	0.9	16.6	1517	**C512_16.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
110	6697	1.7	15.9	2301	**C612_15.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
115	6448	2.9	15.3	3647	**C702_15.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
118	6291	1.0	15.0	1523	**C512_15.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
123	6031	1.8	14.3	2260	**C612_14.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
125	5926	3.0	14.1	3543	**C702_14.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	178...181
134	5521	1.1	13.1	1505	**C512_13.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
146	5083	2.2	12.1	2199	**C612_12.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
149	4976	1.3	11.8	1493	**C512_11.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
162	4578	2.4	10.9	2158	**C612_10.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
179	4128	2.7	9.8	2116	**C612_9.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
180	4100	1.4	9.8	1452	**C512_9.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
199	3717	3.0	8.8	2055	**C612_8.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
200	3696	1.5	8.8	1433	**C512_8.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
227	3259	1.6	7.8	1398	**C512_7.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
249	2971	1.0	7.1	644	**C412_7.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	154...157
252	2937	1.7	7.0	1376	**C512_7.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165

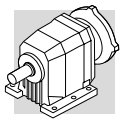


12.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
260	2851	1.0	6.8	503	**C362_6.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	146...149
277	2675	1.1	6.4	634	**C412_6.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	154...157
293	2523	2.2	6.0	1835	**C612_6.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
296	2503	0.9	6.0	583	**C412_6.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	154...157
313	2367	1.5	5.6	1261	**C512_5.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
377	1960	1.2	4.7	536	**C412_4.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	154...157
386	1915	2.8	4.6	1718	**C612_4.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	170...173
395	1872	1.9	4.5	1206	**C512_4.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
419	1766	0.9	4.2	485	**C362_4.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	146...149
487	1518	1.5	3.6	546	**C412_3.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	154...157
505	1466	1.1	3.5	473	**C362_3.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	146...149
532	1391	2.5	3.3	1130	**C512_3.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165
553	1338	1.2	3.2	473	**C362_3.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	146...149
655	1130	1.5	2.7	468	**C362_2.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	146...149
662	1118	1.9	2.7	542	**C412_2.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	154...157
669	1105	2.9	2.6	1068	**C512_2.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	162...165

15 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
7.2	116727	0.9	244.2	17714	**C1004_244.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
8.8	95415	1.1	199.6	17714	**C1004_199.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
9.5	88600	1.2	185.4	17714	**C1004_185.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
10.9	77480	1.4	162.1	17714	**C1004_162.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
11.7	74295	1.4	150.4	17714	**C1003_150.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
12.6	68988	1.4	139.7	17714	**C1003_139.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
13.2	66249	0.9	134.1	10858	**C903_134.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
14.6	59520	1.8	120.5	17714	**C1003_120.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
15.1	57653	1.1	116.7	10587	**C903_116.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
15.8	55269	1.9	111.9	17714	**C1003_111.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
16.5	52848	1.2	107.0	10628	**C903_107.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
17.7	49292	2.2	99.8	17714	**C1003_99.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
18.3	47532	1.3	96.2	10587	**C903_96.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
19.0	45771	2.3	92.7	17714	**C1003_92.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
20.0	43571	1.4	88.2	10566	**C903_88.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
20.6	42255	2.5	85.6	17714	**C1003_85.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
21.7	40111	1.6	81.2	10566	**C903_81.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
22.2	39237	2.7	79.4	17714	**C1003_79.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	196...199
23.7	36768	1.7	74.4	10462	**C903_74.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
25.0	34821	0.9	70.5	6630	**C803_70.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
27.3	31897	2.0	64.6	10420	**C903_64.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
28.2	30871	1.1	62.5	6870	**C803_62.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
29.8	29239	2.1	59.2	10212	**C903_59.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
31	28299	1.2	57.3	7120	**C803_57.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
32	27102	2.3	54.9	10170	**C903_54.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
35	24843	2.4	50.3	10003	**C903_50.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
37	23432	1.3	47.4	6974	**C803_47.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
41	21480	1.5	43.5	6891	**C803_43.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
41	21230	2.8	43.0	9795	**C903_43.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
43	20379	0.9	41.3	4314	**C703_41.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
45	19461	3.0	39.4	9607	**C903_39.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193
45	19732	1.3	39.1	6433	**C802_39.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
50	17708	2.5	35.1	9378	**C902_35.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	190...193

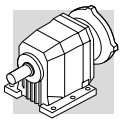


15 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
51	17531	1.1	34.7	3918	**C702_34.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
56	15808	1.9	31.3	6245	**C802_31.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
64	13985	1.3	27.7	3710	**C702_27.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
66	12799	0.9	26.8	2322	**C613_26.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
68	13091	2.3	25.9	6079	**C802_25.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
71	12521	1.0	24.8	2281	**C612_24.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
74	12084	2.4	24.0	5975	**C802_24.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
77	11530	1.6	22.9	3668	**C702_22.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
79	11276	1.0	22.4	2199	**C612_22.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
79	11223	2.7	22.2	5912	**C802_22.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
86	10359	2.8	20.5	5829	**C802_20.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	184...187
90	9889	1.2	19.6	2219	**C612_19.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
92	9729	1.9	19.3	3605	**C702_19.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
100	8906	1.2	17.7	2199	**C612_17.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
106	8427	2.0	16.7	3501	**C702_16.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
111	8037	1.4	15.9	2199	**C612_15.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
115	7737	2.4	15.3	3501	**C702_15.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
123	7238	1.5	14.3	2158	**C612_14.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
125	7111	2.5	14.1	3418	**C702_14.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
134	6625	0.9	13.1	1394	**C512_13.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
135	6574	2.8	13.0	3418	**C702_13.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	178...181
146	6100	1.8	12.1	2116	**C612_12.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
149	5972	1.0	11.8	1396	**C512_11.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
162	5494	2.0	10.9	2075	**C612_10.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
180	4953	2.2	9.8	2036	**C612_9.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
181	4920	1.1	9.8	1372	**C512_9.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
200	4461	2.5	8.8	1991	**C612_8.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
201	4435	1.3	8.8	1361	**C512_8.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
228	3911	1.3	7.8	1335	**C512_7.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
236	3776	2.9	7.5	1929	**C612_7.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
253	3525	1.5	7.0	1318	**C512_7.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
294	3028	1.8	6.0	1781	**C612_6.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
313	2841	1.2	5.6	1206	**C512_5.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
387	2298	2.4	4.6	1677	**C612_4.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
396	2247	1.6	4.5	1160	**C512_4.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
477	1866	2.9	3.7	1594	**C612_3.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	170...173
534	1669	2.0	3.3	1095	**C512_3.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165
671	1326	2.4	2.6	1042	**C512_2.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	162...165

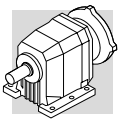
20 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
10.9	104598	1.0	162.1	16828	**C1004_162.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
11.8	100298	1.1	150.4	17360	**C1003_150.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
12.7	93134	1.1	139.7	17360	**C1003_139.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
14.7	80353	1.3	120.5	17464	**C1003_120.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
15.8	74613	1.4	111.9	17360	**C1003_111.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
17.7	66544	1.6	99.8	17235	**C1003_99.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
18.4	64169	1.0	96.2	9566	**C903_96.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
19.1	61791	1.7	92.7	17172	**C1003_92.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
20.1	58821	1.1	88.2	9482	**C903_88.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
20.7	57045	1.9	85.6	16985	**C1003_85.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
21.8	54149	1.2	81.2	9232	**C903_81.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193



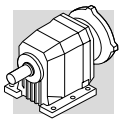
20 hp

n_2	T_2	S	i	R_{n2}							
rpm	lb·in			lbs		IE2	IE3	IE2	IE3	NEMA	
22.3	52970	2.0	79.4	16880	**C1003_79.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
23.8	49637	1.3	74.4	9336	**C903_74.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
25.5	46291	2.3	69.4	16568	**C1003_69.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
27.4	43060	1.5	64.6	9274	**C903_64.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
27.5	42985	2.5	64.5	16380	**C1003_64.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
29.9	39472	1.6	59.2	9253	**C903_59.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
31	38239	2.8	57.4	16130	**C1003_57.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
32	36587	1.7	54.9	9232	**C903_54.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
33	35507	3.0	53.3	15880	**C1003_53.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	196...199
35	33538	1.8	50.3	9190	**C903_50.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
37	31634	1.0	47.4	6183	**C803_47.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
41	28998	1.1	43.5	6308	**C803_43.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
41	28660	2.1	43.0	9190	**C903_43.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
45	26272	2.2	39.4	8961	**C903_39.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
45	26638	1.0	39.1	5683	**C802_39.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
50	23905	1.9	35.1	8794	**C902_35.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
56	21341	1.4	31.3	5725	**C802_31.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
60	20049	2.4	29.4	8565	**C902_29.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
64	18879	1.0	27.7	3418	**C702_27.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
65	18506	2.4	27.2	8482	**C902_27.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	190...193
68	17674	1.7	25.9	5642	**C802_25.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
74	16314	1.8	24.0	5600	**C802_24.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
77	15565	1.2	22.9	3209	**C702_22.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
80	15151	2.0	22.2	5537	**C802_22.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
86	13985	2.1	20.5	5454	**C802_20.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
92	13135	1.4	19.3	3251	**C702_19.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
98	12295	2.5	18.1	5371	**C802_18.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
100	12023	0.9	17.7	1942	**C612_17.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
106	11377	1.5	16.7	3209	**C702_16.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
106	11349	2.5	16.7	5308	**C802_16.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
111	10849	1.0	15.9	1921	**C612_15.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
115	10445	1.8	15.3	3209	**C702_15.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
119	10156	3.0	14.9	5204	**C802_14.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	184...187
123	9771	1.1	14.3	1907	**C612_14.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
126	9600	1.8	14.1	3189	**C702_14.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
136	8875	2.0	13.0	3168	**C702_13.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
146	8235	1.3	12.1	1905	**C612_12.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
158	7634	2.3	11.2	3063	**C702_11.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
163	7416	1.5	10.9	1878	**C612_10.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
173	6952	2.5	10.2	3043	**C702_10.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
180	6687	1.7	9.8	1868	**C612_9.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
186	6487	2.7	9.5	3001	**C702_9.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	178...181
200	6022	1.8	8.8	1835	**C612_8.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
201	5987	0.9	8.8	1204	**C512_8.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	162...165
228	5279	1.0	7.8	1199	**C512_7.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	162...165
236	5098	2.2	7.5	1800	**C612_7.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
253	4759	1.1	7.0	1189	**C512_7.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	162...165
263	4591	2.4	6.7	1761	**C612_6.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
295	4088	1.3	6.0	1671	**C612_6.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
314	3835	0.9	5.6	1074	**C512_5.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	162...165
389	3103	1.8	4.6	1580	**C612_4.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
397	3033	1.2	4.5	1076	**C512_4.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	162...165
478	2520	2.2	3.7	1514	**C612_3.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
535	2253	1.5	3.3	1042	**C512_3.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	162...165
628	1921	2.8	2.8	1426	**C612_2.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	170...173
673	1791	1.8	2.6	1013	**C512_2.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	162...165



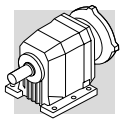
25 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
14.6	99201	1.1	120.5	16318	**C1003_120.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
15.8	92115	1.2	111.9	15963	**C1003_111.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
17.7	82153	1.3	99.8	15984	**C1003_99.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
19.0	76285	1.4	92.7	15984	**C1003_92.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
20.6	70425	1.5	85.6	15922	**C1003_85.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
21.7	66851	1.0	81.2	8899	**C903_81.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
22.2	65395	1.6	79.4	15859	**C1003_79.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
23.7	61280	1.0	74.4	8878	**C903_74.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
25.4	57150	1.9	69.4	15713	**C1003_69.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
27.3	53161	1.2	64.6	8398	**C903_64.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
27.4	53068	2.0	64.5	15588	**C1003_64.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
29.8	48731	1.3	59.2	8440	**C903_59.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
31	47208	2.2	57.4	15359	**C1003_57.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
32	45170	1.4	54.9	8482	**C903_54.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
33	43836	2.4	53.3	15234	**C1003_53.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
35	41405	1.5	50.3	8482	**C903_50.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
38	38050	2.7	46.2	14921	**C1003_46.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
41	35383	1.7	43.0	8461	**C903_43.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
41	35332	2.8	42.9	14755	**C1003_42.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	196...199
45	32434	1.8	39.4	8440	**C903_39.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
50	29513	1.5	35.1	8294	**C902_35.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
56	26347	1.2	31.3	5204	**C802_31.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
60	24751	2.0	29.4	8148	**C902_29.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
65	22847	2.0	27.2	8086	**C902_27.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
68	21819	1.4	25.9	5267	**C802_25.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
71	20877	2.6	24.8	8003	**C902_24.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
74	20141	1.4	24.0	5204	**C802_24.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
77	19271	2.6	22.9	7898	**C902_22.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	190...193
77	19216	1.0	22.9	3147	**C702_22.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
79	18704	1.6	22.2	5225	**C802_22.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
86	17266	1.7	20.5	5184	**C802_20.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
92	16216	1.1	19.3	2938	**C702_19.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
98	15179	2.0	18.1	5142	**C802_18.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
106	14045	1.2	16.7	2876	**C702_16.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
106	14011	2.0	16.7	5079	**C802_16.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
115	12895	1.4	15.3	2876	**C702_15.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
118	12538	2.4	14.9	4996	**C802_14.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
123	12063	0.9	14.3	1757	**C612_14.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
125	11852	1.5	14.1	2897	**C702_14.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
128	11574	2.5	13.8	4934	**C802_13.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	184...187
135	10957	1.7	13.0	2876	**C702_13.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
146	10167	1.1	12.1	1730	**C612_12.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
157	9425	1.9	11.2	2876	**C702_11.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
162	9156	1.2	10.9	1718	**C612_10.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
173	8583	2.0	10.2	2855	**C702_10.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
180	8256	1.3	9.8	1726	**C612_9.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
185	8008	2.2	9.5	2834	**C702_9.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
200	7435	1.5	8.8	1705	**C612_8.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
221	6730	2.6	8.0	2813	**C702_8.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
236	6294	1.8	7.5	1691	**C612_7.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
237	6273	2.7	7.5	2793	**C702_7.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	178...181
262	5668	2.0	6.7	1662	**C612_6.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
294	5047	1.1	6.0	1551	**C612_6.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
387	3831	1.4	4.6	1500	**C612_4.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
396	3745	0.9	4.5	964	**C512_4.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	162...165
477	3111	1.8	3.7	1451	**C612_3.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
534	2781	1.2	3.3	974	**C512_3.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	162...165
626	2371	2.3	2.8	1377	**C612_2.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	170...173
671	2211	1.5	2.6	943	**C512_2.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	162...165



30 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IE2	IE3	NEMA	
15.8	109617	1.0	111.9	15130	**C1003_111.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
17.7	97762	1.1	99.8	14713	**C1003_99.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
19.1	90779	1.2	92.7	14775	**C1003_92.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
20.7	83806	1.3	85.6	14817	**C1003_85.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
22.3	77820	1.4	79.4	14838	**C1003_79.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
25.5	68008	1.6	69.4	14796	**C1003_69.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
27.4	63262	1.0	64.6	7773	**C903_64.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
27.5	63151	1.7	64.5	14755	**C1003_64.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
29.9	57990	1.1	59.2	7648	**C903_59.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
31	56178	1.9	57.4	14650	**C1003_57.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
32	53752	1.2	54.9	7502	**C903_54.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
33	52165	2.0	53.3	14546	**C1003_53.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
35	49272	1.2	50.3	7794	**C903_50.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
38	45280	2.3	46.2	14338	**C1003_46.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
41	42106	1.4	43.0	7815	**C903_43.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
41	42046	2.4	42.9	14192	**C1003_42.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
45	38597	1.5	39.4	7815	**C903_39.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
48	36180	2.7	36.9	13900	**C1003_36.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
50	35120	1.3	35.1	7794	**C902_35.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
52	33596	2.9	34.3	13733	**C1003_34.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
56	31353	1.0	31.3	5184	**C802_31.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
60	28951	2.6	29.6	13358	**C1002_29.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	196...199
60	29454	1.6	29.4	7732	**C902_29.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
65	27188	1.7	27.2	7690	**C902_27.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
68	25965	1.2	25.9	4788	**C802_25.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
71	24843	2.2	24.8	7627	**C902_24.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
74	23968	1.2	24.0	4934	**C802_24.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
77	22932	2.2	22.9	7586	**C902_22.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
80	22258	1.4	22.2	4892	**C802_22.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
86	20546	1.4	20.5	4871	**C802_20.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
87	20250	2.7	20.2	7461	**C902_20.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
92	19297	1.0	19.3	2853	**C702_19.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
95	18692	2.7	18.7	7377	**C902_18.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	190...193
98	18062	1.7	18.1	4850	**C802_18.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
106	16714	1.0	16.7	2584	**C702_16.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
106	16673	1.7	16.7	4809	**C802_16.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
115	15345	1.2	15.3	2584	**C702_15.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
119	14920	2.0	14.9	4767	**C802_14.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
126	14104	1.2	14.1	2647	**C702_14.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
129	13773	2.1	13.8	4726	**C802_13.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
136	13038	1.4	13.0	2647	**C702_13.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
146	12098	0.9	12.1	1623	**C612_12.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
147	12026	2.5	12.0	4684	**C802_12.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
158	11216	1.6	11.2	2688	**C702_11.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
160	11101	2.6	11.1	4601	**C802_11.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	184...187
163	10896	1.0	10.9	1558	**C612_10.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
173	10213	1.7	10.2	2668	**C702_10.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
180	9824	1.1	9.8	1584	**C612_9.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
186	9530	1.8	9.5	2668	**C702_9.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
200	8848	1.3	8.8	1574	**C612_8.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
221	8009	2.1	8.0	2647	**C702_8.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
236	7489	1.5	7.5	1580	**C612_7.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
237	7465	2.3	7.5	2647	**C702_7.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
263	6745	1.6	6.7	1562	**C612_6.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
283	6258	2.6	6.3	2605	**C702_6.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
295	6005	0.9	6.0	1479	**C612_6.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
303	5854	2.7	5.9	2563	**C702_5.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	178...181
389	4558	1.2	4.6	1420	**C612_4.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
478	3702	1.5	3.7	1385	**C612_3.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
535	3310	1.0	3.3	892	**C512_3.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	162...165
628	2822	1.9	2.8	1325	**C612_2.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	170...173
673	2631	1.2	2.6	880	**C512_2.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	162...165



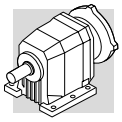
40 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
20.6	114089	0.9	85.6	13442	**C1003_85.6**		**P200+IEC200L4**	**N320TC**	196...199
22.2	105940	1.0	79.4	12858	**C1003_79.4**		**P200+IEC200L4**	**N320TC**	196...199
25.4	92583	1.1	69.4	13442	**C1003_69.4**		**P200+IEC200L4**	**N320TC**	196...199
27.3	85970	1.2	64.5	13254	**C1003_64.5**		**P200+IEC200L4**	**N320TC**	196...199
31	76477	1.4	57.4	14755	**C1003_57.4**		**P200+IEC200L4**	**N320TC**	196...199
33	71015	1.5	53.3	14234	**C1003_53.3**		**P200+IEC200L4**	**N320TC**	196...199
38	61642	1.7	46.2	14380	**C1003_46.2**		**P200+IEC200L4**	**N320TC**	196...199
41	57320	1.0	43.0	6377	**C903_43.0**		**P200+IEC200L4**	**N320TC**	190...193
41	57239	1.8	42.9	13879	**C1003_42.9**		**P200+IEC200L4**	**N320TC**	196...199
45	52543	1.1	39.4	6169	**C903_39.4**		**P200+IEC200L4**	**N320TC**	190...193
48	49254	2.0	36.9	15005	**C1003_36.9**		**P200+IEC200L4**	**N320TC**	196...199
50	47811	0.9	35.1	6877	**C902_35.1**		**P200+IEC200L4**	**N320TC**	190...193
51	45735	2.1	34.3	14505	**C1003_34.3**		**P200+IEC200L4**	**N320TC**	196...199
60	39413	1.9	29.6	15234	**C1002_29.6**		**P200+IEC200L4**	**N320TC**	196...199
60	40097	1.2	29.4	6794	**C902_29.4**		**P200+IEC200L4**	**N320TC**	190...193
65	37013	1.2	27.2	7377	**C902_27.2**		**P200+IEC200L4**	**N320TC**	190...193
71	33820	1.6	24.8	7398	**C902_24.8**		**P200+IEC200L4**	**N320TC**	190...193
73	32832	2.7	24.1	13546	**C1002_24.1**		**P200+IEC200L4**	**N320TC**	196...199
77	31219	1.6	22.9	7482	**C902_22.9**		**P200+IEC200L4**	**N320TC**	190...193
79	30307	2.7	22.2	13796	**C1002_22.2**		**P200+IEC200L4**	**N320TC**	196...199
79	30301	1.0	22.2	4517	**C802_22.2**		**P200+IEC200L4**	**N320TC**	184...187
86	27970	1.0	20.5	4497	**C802_20.5**		**P200+IEC200L4**	**N320TC**	184...187
87	27567	2.0	20.2	7044	**C902_20.2**		**P200+IEC200L4**	**N320TC**	190...193
94	25446	2.0	18.7	7607	**C902_18.7**		**P200+IEC200L4**	**N320TC**	190...193
98	24589	1.2	18.1	4663	**C802_18.1**		**P200+IEC200L4**	**N320TC**	184...187
102	23581	2.3	17.3	6189	**C902_17.3**		**P200+IEC200L4**	**N320TC**	190...193
106	22698	1.3	16.7	4746	**C802_16.7**		**P200+IEC200L4**	**N320TC**	184...187
110	21767	2.3	16.0	6502	**C902_16.0**		**P200+IEC200L4**	**N320TC**	190...193
118	20312	1.5	14.9	4288	**C802_14.9**		**P200+IEC200L4**	**N320TC**	184...187
125	19200	0.9	14.1	2344	**C702_14.1**		**P200+IEC200L4**	**N320TC**	178...181
127	18875	2.6	13.9	6565	**C902_13.9**		**P200+IEC200L4**	**N320TC**	190...193
128	18749	1.5	13.8	4392	**C802_13.8**		**P200+IEC200L4**	**N320TC**	184...187
135	17750	1.0	13.0	2501	**C702_13.0**		**P200+IEC200L4**	**N320TC**	178...181
138	17423	2.8	12.8	6398	**C902_12.8**		**P200+IEC200L4**	**N320TC**	190...193
146	16371	1.9	12.0	4268	**C802_12.0**		**P200+IEC200L4**	**N320TC**	184...187
157	15268	1.2	11.2	6377	**C902_11.2**		**P200+IEC200L4**	**N320TC**	190...193
159	15112	1.9	11.1	4392	**C802_11.1**		**P200+IEC200L4**	**N320TC**	184...187
172	13904	1.2	10.2	2480	**C702_10.2**		**P200+IEC200L4**	**N320TC**	178...181
183	13081	2.3	9.6	4184	**C802_9.6**		**P200+IEC200L4**	**N320TC**	184...187
199	12075	2.4	8.9	4372	**C802_8.9**		**P200+IEC200L4**	**N320TC**	184...187
220	10903	1.6	8.0	2417	**C702_8.0**		**P200+IEC200L4**	**N320TC**	178...181
231	10389	2.7	7.6	4059	**C802_7.6**		**P200+IEC200L4**	**N320TC**	184...187
236	10162	1.7	7.5	2292	**C702_7.5**		**P200+IEC200L4**	**N320TC**	178...181
250	9590	2.9	7.0	4018	**C802_7.0**		**P200+IEC200L4**	**N320TC**	184...187
281	8520	1.9	6.3	2397	**C702_6.3**		**P200+IEC200L4**	**N320TC**	178...181
301	7969	2.0	5.9	2251	**C702_5.9**		**P200+IEC200L4**	**N320TC**	178...181
385	6227	2.2	4.6	2292	**C702_4.6**		**P200+IEC200L4**	**N320TC**	178...181

50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
25.4	114014	0.9	69.4	12212	**C1003_69.4**		**P225+IEC225S4**	**N320TC**	196...199
27.4	105870	1.0	64.5	11691	**C1003_64.5**		**P225+IEC225S4**	**N320TC**	196...199
31	94180	1.1	57.4	11524	**C1003_57.4**		**P225+IEC225S4**	**N320TC**	196...199
33	87453	1.2	53.3	11108	**C1003_53.3**		**P225+IEC225S4**	**N320TC**	196...199
38	75911	1.4	46.2	11795	**C1003_46.2**		**P225+IEC225S4**	**N320TC**	196...199
41	70488	1.4	42.9	11379	**C1003_42.9**		**P225+IEC225S4**	**N320TC**	196...199

***The technical information shall be considered as indicative. the configurations should be matching the data provided by motors manufacturers on rated powers greater than 30 HP.**



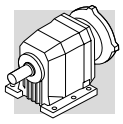
50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
45	64706	0.9	39.4	6231	**C903_39.4**		**P225+IEC225S4**	**N320TC**	190...193
48	60655	1.6	36.9	11879	**C1003_36.9**		**P225+IEC225S4**	**N320TC**	196...199
51	56322	1.7	34.3	11483	**C1003_34.3**		**P225+IEC225S4**	**N320TC**	196...199
60	48536	1.5	29.6	12921	**C1002_29.6**		**P225+IEC225S4**	**N320TC**	196...199
60	49379	1.0	29.4	6002	**C902_29.4**		**P225+IEC225S4**	**N320TC**	190...193
65	45581	1.0	27.2	6044	**C902_27.2**		**P225+IEC225S4**	**N320TC**	190...193
71	41649	1.3	24.8	6148	**C902_24.8**		**P225+IEC225S4**	**N320TC**	190...193
73	40432	2.2	24.1	11504	**C1002_24.1**		**P225+IEC225S4**	**N320TC**	196...199
77	38445	1.3	22.9	6210	**C902_22.9**		**P225+IEC225S4**	**N320TC**	190...193
79	37322	2.2	22.2	11712	**C1002_22.2**		**P225+IEC225S4**	**N320TC**	196...199
87	33948	1.6	20.2	5064	**C902_20.2**		**P225+IEC225S4**	**N320TC**	190...193
87	33923	2.6	20.2	10524	**C1002_20.2**		**P225+IEC225S4**	**N320TC**	196...199
94	31337	1.6	18.7	6273	**C902_18.7**		**P225+IEC225S4**	**N320TC**	190...193
95	31314	2.8	18.7	11170	**C1002_18.7**		**P225+IEC225S4**	**N320TC**	196...199
98	30281	1.0	18.1	3810	**C802_18.1**		**P225+IEC225S4**	**N320TC**	184...187
102	29040	1.8	17.3	5106	**C902_17.3**		**P225+IEC225S4**	**N320TC**	190...193
106	27952	1.0	16.7	3851	**C802_16.7**		**P225+IEC225S4**	**N320TC**	184...187
110	26806	1.9	16.0	5335	**C902_16.0**		**P225+IEC225S4**	**N320TC**	190...193
118	25014	1.2	14.9	3331	**C802_14.9**		**P225+IEC225S4**	**N320TC**	184...187
127	23244	2.1	13.9	6189	**C902_13.9**		**P225+IEC225S4**	**N320TC**	190...193
128	23089	1.2	13.8	3914	**C802_13.8**		**P225+IEC225S4**	**N320TC**	184...187
138	21456	2.3	12.8	6023	**C902_12.8**		**P225+IEC225S4**	**N320TC**	190...193
147	20161	1.5	12.0	3914	**C802_12.0**		**P225+IEC225S4**	**N320TC**	184...187
157	18832	2.5	11.2	6064	**C902_11.2**		**P225+IEC225S4**	**N320TC**	190...193
159	18610	1.5	11.1	4039	**C802_11.1**		**P225+IEC225S4**	**N320TC**	184...187
170	17383	2.6	10.4	5919	**C902_10.4**		**P225+IEC225S4**	**N320TC**	190...193
184	16109	1.9	9.6	3914	**C802_9.6**		**P225+IEC225S4**	**N320TC**	184...187
196	15131	2.8	9.0	5898	**C902_9.0**		**P225+IEC225S4**	**N320TC**	190...193
199	14870	1.9	8.9	4080	**C802_8.9**		**P225+IEC225S4**	**N320TC**	184...187
212	13967	3.0	8.3	5773	**C902_8.3**		**P225+IEC225S4**	**N320TC**	190...193
231	12794	2.2	7.6	3851	**C802_7.6**		**P225+IEC225S4**	**N320TC**	184...187
251	11810	2.3	7.0	3747	**C802_7.0**		**P225+IEC225S4**	**N320TC**	184...187
289	10251	2.5	6.1	3747	**C802_6.1**		**P225+IEC225S4**	**N320TC**	184...187
313	9463	2.7	5.6	3622	**C802_5.6**		**P225+IEC225S4**	**N320TC**	184...187

60 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
31	114244	0.9	57.4	11149	**C1003_57.4**		**P225+IEC225M4**		196...199
33	106084	1.0	53.3	11024	**C1003_53.3**		**P225+IEC225M4**		196...199
38	92082	1.1	46.2	10295	**C1003_46.2**		**P225+IEC225M4**		196...199
41	85505	1.2	42.9	9920	**C1003_42.9**		**P225+IEC225M4**		196...199
48	73576	1.3	36.9	10191	**C1003_36.9**		**P225+IEC225M4**		196...199
52	68321	1.4	34.3	9836	**C1003_34.3**		**P225+IEC225M4**		196...199
60	58876	1.3	29.6	11087	**C1002_29.6**		**P225+IEC225M4**		196...199
71	50521	1.1	24.8	5418	**C902_24.8**		**P225+IEC225M4**		190...193
73	49046	1.8	24.1	12108	**C1002_24.1**		**P225+IEC225M4**		196...199
77	46635	1.1	22.9	5460	**C902_22.9**		**P225+IEC225M4**		190...193
80	45273	1.8	22.2	12337	**C1002_22.2**		**P225+IEC225M4**		196...199
87	41180	1.3	20.2	5252	**C902_20.2**		**P225+IEC225M4**		190...193
88	41150	2.2	20.2	11066	**C1002_20.2**		**P225+IEC225M4**		196...199
95	38012	1.3	18.7	5668	**C902_18.7**		**P225+IEC225M4**		190...193
95	37984	2.3	18.7	10628	**C1002_18.7**		**P225+IEC225M4**		196...199
102	35226	1.5	17.3	4626	**C902_17.3**		**P225+IEC225M4**		190...193
107	33538	2.5	16.5	9399	**C1002_16.5**		**P225+IEC225M4**		196...199
111	32516	1.6	16.0	4856	**C902_16.0**		**P225+IEC225M4**		190...193

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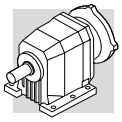
60 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
116	30958	2.7	15.2	9086	**C1002_15.2**		**P225+IEC225M4**		196...199
119	30342	1.0	14.9	3393	**C802_14.9**		**P225+IEC225M4**		184...187
128	28196	1.8	13.9	5752	**C902_13.9**		**P225+IEC225M4**		190...193
129	28008	1.0	13.8	3477	**C802_13.8**		**P225+IEC225M4**		184...187
131	27455	2.8	13.5	8982	**C1002_13.5**		**P225+IEC225M4**		196...199
138	26027	1.9	12.8	5606	**C902_12.8**		**P225+IEC225M4**		190...193
147	24456	1.2	12.0	3539	**C802_12.0**		**P225+IEC225M4**		184...187
158	22844	2.0	11.2	5710	**C902_11.2**		**P225+IEC225M4**		190...193
160	22575	1.3	11.1	3643	**C802_11.1**		**P225+IEC225M4**		184...187
171	21087	2.2	10.4	5585	**C902_10.4**		**P225+IEC225M4**		190...193
184	19541	1.6	9.6	3601	**C802_9.6**		**P225+IEC225M4**		184...187
196	18355	2.3	9.0	5606	**C902_9.0**		**P225+IEC225M4**		190...193
200	18038	1.6	8.9	3747	**C802_8.9**		**P225+IEC225M4**		184...187
213	16943	2.5	8.3	5481	**C902_8.3**		**P225+IEC225M4**		190...193
232	15519	1.8	7.6	3601	**C802_7.6**		**P225+IEC225M4**		184...187
242	14898	2.7	7.3	5481	**C902_7.3**		**P225+IEC225M4**		190...193
251	14326	1.9	7.0	3497	**C802_7.0**		**P225+IEC225M4**		184...187
262	13752	2.8	6.8	5377	**C902_6.8**		**P225+IEC225M4**		190...193
290	12435	2.1	6.1	3435	**C802_6.1**		**P225+IEC225M4**		184...187
314	11479	2.2	5.6	3539	**C802_5.6**		**P225+IEC225M4**		184...187

75 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
38	112249	0.9	46.2	10066	**C1003_46.2**		**P250+IEC250M4**		196...199
41	104231	1.0	42.9	10128	**C1003_42.9**		**P250+IEC250M4**		196...199
48	89690	1.1	36.9	9461	**C1003_36.9**		**P250+IEC250M4**		196...199
52	83284	1.2	34.3	9149	**C1003_34.3**		**P250+IEC250M4**		196...199
60	71770	1.0	29.6	9732	**C1002_29.6**		**P250+IEC250M4**		196...199
73	59787	1.5	24.1	9899	**C1002_24.1**		**P250+IEC250M4**		196...199
80	55188	1.5	22.2	10087	**C1002_22.2**		**P250+IEC250M4**		196...199
87	50199	1.1	20.2	4293	**C902_20.2**		**P250+IEC250M4**		190...193
88	50162	1.8	20.2	9045	**C1002_20.2**		**P250+IEC250M4**		196...199
95	46337	1.1	18.7	4626	**C902_18.7**		**P250+IEC250M4**		190...193
95	46303	1.9	18.7	9941	**C1002_18.7**		**P250+IEC250M4**		196...199
102	42941	1.2	17.3	3772	**C902_17.3**		**P250+IEC250M4**		190...193
107	40883	2.0	16.5	8794	**C1002_16.5**		**P250+IEC250M4**		196...199
111	39638	1.3	16.0	3960	**C902_16.0**		**P250+IEC250M4**		190...193
116	37738	2.2	15.2	8503	**C1002_15.2**		**P250+IEC250M4**		196...199
128	34371	1.4	13.9	5189	**C902_13.9**		**P250+IEC250M4**		190...193
131	33467	2.3	13.5	9691	**C1002_13.5**		**P250+IEC250M4**		196...199
138	31727	1.5	12.8	5043	**C902_12.8**		**P250+IEC250M4**		190...193
142	30893	2.5	12.5	9295	**C1002_12.5**		**P250+IEC250M4**		196...199
158	27847	1.7	11.2	4939	**C902_11.2**		**P250+IEC250M4**		190...193
162	27120	2.7	10.9	9461	**C1002_10.9**		**P250+IEC250M4**		196...199
171	25705	1.8	10.4	4835	**C902_10.4**		**P250+IEC250M4**		190...193
175	25034	2.9	10.1	8836	**C1002_10.1**		**P250+IEC250M4**		196...199
196	22374	1.9	9.0	5252	**C902_9.0**		**P250+IEC250M4**		190...193
213	20653	2.0	8.3	5127	**C902_8.3**		**P250+IEC250M4**		190...193
242	18161	2.2	7.3	5189	**C902_7.3**		**P250+IEC250M4**		190...193
262	16764	2.3	6.8	5085	**C902_6.8**		**P250+IEC250M4**		190...193
316	13899	2.6	5.6	5043	**C902_5.6**		**P250+IEC250M4**		190...193
342	12830	2.7	5.2	5002	**C902_5.2**		**P250+IEC250M4**		190...193

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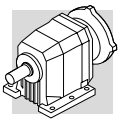
100 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
74	81473	1.1	24.1	6961	**C1002_24.1**		**P280+IEC280S4**		196...199
80	75205	1.1	22.2	7106	**C1002_22.2**		**P280+IEC280S4**		196...199
88	68356	1.3	20.2	6710	**C1002_20.2**		**P280+IEC280S4**		196...199
95	63098	1.4	18.7	7794	**C1002_18.7**		**P280+IEC280S4**		196...199
108	55711	1.5	16.5	8148	**C1002_16.5**		**P280+IEC280S4**		196...199
117	51426	1.6	15.2	8294	**C1002_15.2**		**P280+IEC280S4**		196...199
132	45606	1.7	13.5	8357	**C1002_13.5**		**P280+IEC280S4**		196...199
143	42098	1.8	12.5	8461	**C1002_12.5**		**P280+IEC280S4**		196...199
162	36957	2.0	10.9	8482	**C1002_10.9**		**P280+IEC280S4**		196...199
176	34114	2.1	10.1	8503	**C1002_10.1**		**P280+IEC280S4**		196...199
196	30583	2.2	9.0	8524	**C1002_9.0**		**P280+IEC280S4**		196...199
213	28231	2.4	8.4	8461	**C1002_8.4**		**P280+IEC280S4**		196...199
251	23887	2.6	7.1	8273	**C1002_7.1**		**P280+IEC280S4**		196...199
272	22050	2.8	6.5	8190	**C1002_6.5**		**P280+IEC280S4**		196...199

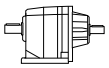
120 hp

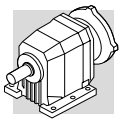
n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
74	97686	0.9	24.1	8107	**C1002_24.1**		**P280+IEC280M4**		196...199
88	81959	1.1	20.2	6377	**C1002_20.2**		**P280+IEC280M4**		196...199
95	75655	1.2	18.7	7398	**C1002_18.7**		**P280+IEC280M4**		196...199
108	66798	1.2	16.5	7732	**C1002_16.5**		**P280+IEC280M4**		196...199
117	61660	1.3	15.2	7877	**C1002_15.2**		**P280+IEC280M4**		196...199
132	54682	1.4	13.5	7940	**C1002_13.5**		**P280+IEC280M4**		196...199
143	50476	1.5	12.5	8023	**C1002_12.5**		**P280+IEC280M4**		196...199
162	44312	1.6	10.9	8044	**C1002_10.9**		**P280+IEC280M4**		196...199
176	40903	1.8	10.1	8065	**C1002_10.1**		**P280+IEC280M4**		196...199
196	36669	1.9	9.0	8023	**C1002_9.0**		**P280+IEC280M4**		196...199
213	33849	2.0	8.4	8003	**C1002_8.4**		**P280+IEC280M4**		196...199
251	28641	2.2	7.1	7877	**C1002_7.1**		**P280+IEC280M4**		196...199
272	26438	2.3	6.5	7836	**C1002_6.5**		**P280+IEC280M4**		196...199
333	21616	2.6	5.3	7627	**C1002_5.3**		**P280+IEC280M4**		196...199
361	19953	2.8	4.9	7565	**C1002_4.9**		**P280+IEC280M4**		196...199

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C 12 — 890 lb·in

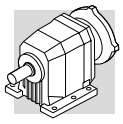
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 12 2_2.8	2.8	643	301	3.2	203	162	429	345	2.5	234	187	
C 12 2_3.2	3.2	563	325	3.1	197	162	375	372	2.3	227	187	
C 12 2_3.7	3.7	486	342	2.8	197	164	324	391	2.1	227	189	
C 12 2_4.3	4.3	419	366	2.6	183	164	279	419	2.0	210	189	
C 12 2_4.9	4.9	367	390	2.4	181	164	245	447	1.8	208	189	
C 12 2_5.6	5.6	321	415	2.2	172	166	214	475	1.7	198	191	
C 12 2_6.2	6.2	290	431	2.1	166	170	194	494	1.6	191	196	
C 12 2_7.6	7.6	237	456	1.8	267	315	158	521	1.4	290	364	
C 12 2_8.8	8.8	205	480	1.6	267	332	136	549	1.3	290	383	
C 12 2_10.1	10.1	178	512	1.5	267	344	119	587	1.2	290	397	
C 12 2_11.9	11.9	151	545	1.4	267	360	101	624	1.1	290	416	
C 12 2_13.4	13.4	134	569	1.3	267	377	90	652	0.97	290	435	128
C 12 2_15.4	15.4	117	594	1.2	267	395	78	680	0.88	290	450	129
C 12 2_17.2	17.2	105	618	1.1	267	410	70	708	0.82	290	450	
C 12 2_18.4	18.4	98	634	1.0	267	410	65	726	0.79	290	450	
C 12 2_20.6	20.6	87	667	0.97	267	410	58	764	0.74	290	450	
C 12 2_23.2	23.2	78	691	0.90	267	410	52	788	0.68	290	450	
C 12 2_25.4	25.4	71	716	0.85	267	410	47	788	0.62	290	450	
C 12 2_29.5	29.5	61	756	0.77	267	423	41	866	0.59	290	450	
C 12 2_32.8	32.8	55	732	0.67	267	443	37	797	0.49	290	450	
C 12 2_37.0	37.0	49	732	0.59	267	450	32	797	0.43	290	450	
C 12 2_42.3	42.3	43	813	0.58	267	450	28	890	0.42	290	450	
C 12 2_47.6	47.6	38	752	0.47	267	450	25	797	0.34	290	450	
C 12 2_55.2	55.2	33	788	0.43	267	450	22	797	0.29	290	450	
C 12 2_66.2	66.2	27	761	0.35	267	450	18.1	797	0.24	290	450	



C 22 — 1770 lb·in

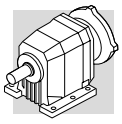
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 22 2_2.7	2.7	667	651	7.2	—	300	444	745	5.5	—	345	
C 22 2_3.3	3.3	545	691	6.3	—	321	364	791	4.8	—	369	
C 22 2_3.7	3.7	486	732	5.9	—	331	324	838	4.5	—	380	
C 22 2_4.3	4.3	419	765	5.3	—	339	279	875	4.1	—	390	
C 22 2_4.8	4.8	375	813	5.1	—	355	250	929	3.9	—	409	
C 22 2_5.6	5.6	321	830	4.5	—	368	214	929	3.3	—	423	
C 22 2_6.1	6.1	295	854	4.2	—	390	197	974	3.2	—	449	
C 22 2_7.1	7.1	254	1057	4.5	293	409	169	1210	3.4	334	470	
C 22 2_8.7	8.7	207	1123	3.9	295	429	138	1285	3.0	337	494	
C 22 2_9.6	9.6	188	1179	3.7	302	452	125	1350	2.8	344	520	
C 22 2_11.1	11.1	162	1245	3.4	287	466	108	1425	2.6	327	536	
C 22 2_12.4	12.4	145	1301	3.2	293	489	97	1490	2.4	334	562	
C 22 2_14.5	14.5	124	1367	2.8	281	503	83	1564	2.2	320	579	
C 22 2_15.8	15.8	114	1423	2.7	273	528	76	1629	2.1	311	607	
C 22 2_18.1	18.1	99	1489	2.5	258	545	66	1704	1.9	294	626	
C 22 2_20.0	20.0	90	1545	2.3	258	569	60	1770	1.8	294	654	
C 22 2_21.5	21.5	84	1578	2.2	246	579	56	1770	1.6	280	666	
C 22 2_24.3	24.3	74	1627	2.0	258	610	49	1770	1.5	294	702	
C 22 2_27.2	27.2	66	1627	1.8	277	639	44	1770	1.3	315	735	
C 22 2_29.6	29.6	61	1627	1.7	279	672	41	1770	1.2	318	773	
C 22 2_33.1	33.1	54	1627	1.5	287	699	36	1770	1.1	327	803	136
C 22 2_36.8	36.8	49	1637	1.3	289	742	33	1770	1.0	330	853	137
C 22 2_43.3	43.3	41.6	1637	1.1	333	812	27.7	1682	0.78	379	933	
C 22 2_48.6	48.6	37.0	1328	0.82	359	904	24.7	1416	0.58	410	1040	
C 22 2_54.7	54.7	32.9	1328	0.73	366	945	21.9	1416	0.52	417	1087	
C 22 2_63.3	63.3	28.4	1106	0.53	376	1027	19.0	1195	0.38	428	1120	
C 22 3_60.0	60.0	30.0	1593	0.82	254	925	20.0	1682	0.57	290	1063	
C 22 3_65.3	65.3	27.6	1770	0.83	262.38	960	18.4	1770	0.55	290	1103	
C 22 3_74.8	74.8	24.1	1770	0.73	262.38	986	16.0	1770	0.48	290	1120	
C 22 3_82.6	82.6	21.8	1770	0.66	268.58	1027	14.5	1770	0.44	290	1120	
C 22 3_88.5	88.5	20.3	1770	0.61	268.58	1027	13.6	1770	0.41	290	1120	
C 22 3_100.2	100.2	18.0	1770	0.54	268.58	1027	12.0	1770	0.36	290	1120	
C 22 3_112.0	112.0	16.1	1770	0.49	268.58	1027	10.7	1770	0.32	290	1120	
C 22 3_122.2	122.2	14.7	1770	0.44	268.58	1027	9.8	1770	0.30	290	1120	
C 22 3_136.5	136.5	13.2	1770	0.40	268.58	1057	8.8	1770	0.27	290	1120	
C 22 3_151.7	151.7	11.9	1770	0.36	274.27	1120	7.9	1770	0.24	290	1120	
C 22 3_178.5	178.5	10.1	1770	0.30	283.26	1120	6.7	1770	0.20	290	1120	
C 22 3_200.7	200.7	9.0	1545	0.24	287.76	1120	6.0	1726	0.18	290	1120	
C 22 3_225.8	225.8	8.0	1505	0.20	290	1120	5.3	1726	0.16	290	1120	
C 22 3_261.0	261.0	6.9	1261	0.15	290	1120	4.6	1416	0.11	290	1120	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



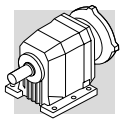
C 32 — 2660 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 32 2_2.9	2.9	621	1057	11.0	195	447	414	1210	8.4	221	513	
C 32 2_3.4	3.4	529	1123	9.9	187	470	353	1285	7.6	211	539	
C 32 2_3.7	3.7	486	1220	9.9	156	476	324	1372	7.4	176	546	
C 32 2_4.5	4.5	400	1236	8.3	201	515	267	1398	6.2	228	591	
C 32 2_5.0	5.0	360	1261	7.6	228	536	240	1434	5.7	258	614	
C 32 2_5.7	5.7	316	1261	6.6	260	569	211	1443	5.1	294	652	
C 32 2_6.3	6.3	286	1328	6.3	301	596	190	1443	4.6	341	683	
C 32 2_7.2	7.2	250	1627	6.8	457	616	167	1862	5.2	490	706	
C 32 2_8.5	8.5	212	1700	6.0	457	656	141	1946	4.6	490	751	
C 32 2_9.3	9.3	194	1790	5.8	457	672	129	2049	4.4	490	770	
C 32 2_11.2	11.2	161	1879	5.0	457	717	107	2151	3.8	490	822	
C 32 2_12.3	12.3	146	1993	4.9	457	734	98	2281	3.7	490	841	
C 32 2_14.1	14.1	128	2042	4.4	457	773	85	2337	3.3	490	886	
C 32 2_15.6	15.6	115	2196	4.2	457	787	77	2514	3.2	490	903	
C 32 2_18.2	18.2	99	2237	3.7	457	839	66	2561	2.8	490	962	
C 32 2_20.1	20.1	90	2400	3.6	457	858	60	2660	2.6	490	983	
C 32 2_22.9	22.9	79	2400	3.1	457	907	52	2660	2.3	490	1040	
C 32 2_25.1	25.1	72	2440	2.9	457	942	48	2660	2.1	490	1080	
C 32 2_26.9	26.9	67	2440	2.7	457	969	45	2660	2.0	490	1110	
C 32 2_29.8	29.8	60	2440	2.5	457	1014	40	2660	1.8	490	1162	
C 32 2_33.1	33.1	54	2440	2.2	457	1062	36	2660	1.6	490	1217	144
C 32 2_36.1	36.1	50	2478	2.1	457	1103	33	2660	1.5	490	1240	145
C 32 2_40.7	40.7	44	2567	1.9	457	1134	29.5	2660	1.3	490	1240	
C 32 2_45.3	45.3	40	2660	1.8	457	1134	26.5	2660	1.2	490	1240	
C 32 2_52.4	52.4	34	2660	1.5	457	1134	22.9	2660	1.0	490	1240	
C 32 2_59.4	59.4	30	1814	0.92	457	1240	20.2	1947	0.66	490	1240	
C 32 2_66.8	66.8	26.9	1814	0.82	457	1240	18.0	1947	0.58	490	1240	
C 32 3_74.7	74.7	24.1	2478	1.0	243	1240	16.1	2567	0.70	275	1240	
C 32 3_82.6	82.6	21.8	2660	0.99	258	1240	14.5	2660	0.66	290	1240	
C 32 3_94.2	94.2	19.1	2660	0.87	264	1240	12.7	2660	0.58	290	1240	
C 32 3_103.3	103.3	17.4	2660	0.79	270	1240	11.6	2660	0.53	290	1240	
C 32 3_110.6	110.6	16.3	2660	0.74	270	1240	10.8	2660	0.49	290	1240	
C 32 3_122.4	122.4	14.7	2660	0.67	270	1240	9.8	2660	0.44	290	1240	
C 32 3_136.0	136.0	13.2	2660	0.60	270	1240	8.8	2660	0.40	290	1240	
C 32 3_148.4	148.4	12.1	2660	0.55	270	1240	8.1	2660	0.37	290	1240	
C 32 3_167.4	167.4	10.8	2660	0.49	270	1240	7.2	2660	0.32	290	1240	
C 32 3_186.0	186.0	9.7	2660	0.44	270	1240	6.5	2660	0.29	290	1240	
C 32 3_215.6	215.6	8.3	2660	0.38	279	1240	5.6	2660	0.25	290	1240	
C 32 3_244.2	244.2	7.4	2124	0.27	288	1240	4.9	2301	0.19	290	1240	
C 32 3_274.7	274.7	6.6	2124	0.24	290	1240	4.4	2301	0.17	290	1240	



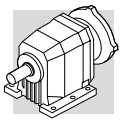
C 36 — 3980 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 36 2_2.7	2.7	667	1393	15.5	238	460	444	1575	11.7	271	529	
C 36 2_3.2	3.2	563	1451	13.6	256	489	375	1640	10.3	292	562	
C 36 2_3.5	3.5	514	1516	13.0	273	501	343	1714	9.8	311	577	
C 36 2_4.2	4.2	429	1574	11.3	291	538	286	1770	8.4	332	619	
C 36 2_4.6	4.6	391	1639	10.7	304	555	261	1770	7.7	346	638	
C 36 2_5.3	5.3	340	1639	9.3	341	590	226	1770	6.7	388	678	
C 36 2_5.8	5.8	310	1639	8.5	411	621	207	1770	6.1	468	714	
C 36 2_6.8	6.8	265	2910	12.9	459	557	176	3290	9.7	523	640	
C 36 2_8.0	8.0	225	2992	11.2	465	598	150	3363	8.4	530	688	
C 36 2_8.8	8.8	205	3115	10.6	469	616	136	3363	7.7	534	709	
C 36 2_10.6	10.6	170	3115	8.8	479	676	113	3363	6.4	546	777	
C 36 2_11.7	11.7	154	3115	8.0	490	711	103	3363	5.8	558	818	
C 36 2_13.3	13.3	135	3115	7.0	496	754	90	3363	5.1	565	867	
C 36 2_14.8	14.8	122	3186	6.5	504	799	81	3363	4.6	574	919	
C 36 2_17.2	17.2	105	3275	5.7	508	863	70	3363	3.9	579	992	
C 36 2_19.0	19.0	95	3363	5.3	517	904	63	3363	3.5	588	1040	
C 36 3_22.1	22.1	81	3524	4.9	599	923	54	3980	3.7	670	1061	
C 36 3_26.2	26.2	69	3606	4.2	601	988	46	3980	3.1	670	1136	
C 36 3_28.7	28.7	63	3688	3.9	605	1023	42	3980	2.8	670	1177	
C 36 3_34.6	34.6	52	3688	3.3	609	1114	35	3980	2.4	670	1281	
C 36 3_38.1	38.1	47	3850	3.1	614	1169	31	3980	2.1	670	1344	
C 36 3_43.5	43.5	41.4	3894	2.7	616	1243	27.6	3980	1.9	670	1429	
C 36 3_48.2	48.2	37.3	3980	2.5	618	1301	24.9	3980	1.7	670	1460	
C 36 3_56.2	56.2	32.0	3980	2.2	618	1336	21.4	3980	1.5	670	1460	152
C 36 3_62.0	62.0	29.0	3980	2.0	620	1336	19.4	3980	1.3	670	1460	153
C 36 3_70.8	70.8	25.4	3980	1.7	620	1336	16.9	3980	1.2	670	1460	
C 36 3_77.6	77.6	23.2	3980	1.6	620	1336	15.5	3980	1.1	670	1460	
C 36 3_83.1	83.1	21.7	3980	1.5	620	1336	14.4	3980	0.98	670	1460	
C 36 3_91.9	91.9	19.6	3980	1.3	620	1394	13.1	3980	0.89	670	1460	
C 36 3_102.2	102.2	17.6	3980	1.2	620	1439	11.7	3980	0.80	670	1460	
C 36 3_111.5	111.5	16.1	3980	1.1	620	1460	10.8	3980	0.73	670	1460	
C 36 3_125.8	125.8	14.3	3980	0.97	620	1460	9.5	3980	0.65	670	1460	
C 36 3_139.8	139.8	12.9	3980	0.87	620	1460	8.6	3980	0.58	670	1460	
C 36 3_162.0	162.0	11.1	3980	0.75	620	1460	7.4	3980	0.50	670	1460	
C 36 3_183.5	183.5	9.8	3980	0.67	620	1460	6.5	3980	0.44	670	1460	
C 36 3_206.4	206.4	8.7	3980	0.59	620	1460	5.8	3980	0.39	670	1460	
C 36 4_230.9	230.9	7.8	3980	0.55	269	1460	5.2	3980	0.36	290	1460	
C 36 4_255.0	255.0	7.1	3980	0.50	269	1460	4.7	3980	0.33	290	1460	
C 36 4_290.9	290.9	6.2	3980	0.43	272	1460	4.1	3980	0.29	290	1460	
C 36 4_318.9	318.9	5.6	3980	0.40	277	1460	3.8	3980	0.26	290	1460	
C 36 4_341.7	341.7	5.3	3980	0.37	279	1460	3.5	3980	0.25	290	1460	
C 36 4_377.9	377.9	4.8	3980	0.33	283	1460	3.2	3980	0.22	290	1460	
C 36 4_420.2	420.2	4.3	3980	0.30	286	1460	2.9	3980	0.20	290	1460	
C 36 4_458.4	458.4	3.9	3980	0.28	288	1460	2.6	3980	0.18	290	1460	
C 36 4_517.2	517.2	3.5	3980	0.24	290	1460	2.3	3980	0.16	290	1460	
C 36 4_574.7	574.7	3.1	3980	0.22	290	1460	2.1	3980	0.15	290	1460	
C 36 4_665.9	665.9	2.7	3980	0.19	290	1460	1.8	3980	0.13	290	1460	
C 36 4_754.2	754.2	2.4	3980	0.17	290	1460	1.6	3980	0.11	290	1460	
C 36 4_848.5	848.5	2.1	3980	0.15	290	1460	1.4	3980	0.10	290	1460	



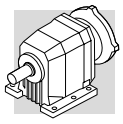
C 41 — 5310 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 41 2_2.7	2.7	667	2169	24	287	421	444	2169	16.1	328	489	
C 41 2_3.6	3.6	500	2257	18.8	341	489	333	2257	12.6	390	567	
C 41 2_4.7	4.7	383	2301	14.7	416	558	255	2301	9.8	475	647	
C 41 2_6.0	6.0	300	2301	11.5	496	636	200	2301	7.7	567	738	
C 41 2_6.4	6.4	281	2828	13.3	592	667	188	3194	10.0	676	773	
C 41 2_7.1	7.1	254	2910	12.3	616	700	169	3287	9.3	704	811	
C 41 2_8.6	8.6	209	3156	11.0	600	736	140	3564	8.3	685	854	
C 41 2_9.6	9.6	188	3196	10.0	627	777	125	3611	7.5	716	901	
C 41 2_11.2	11.2	161	3442	9.2	602	802	107	3888	7.0	688	930	
C 41 2_12.4	12.4	145	3483	8.4	635	847	97	3935	6.4	725	982	
C 41 2_14.2	14.2	127	3647	7.7	616	880	85	4120	5.8	704	1020	
C 41 2_15.8	15.8	114	3688	7.0	645	929	76	4166	5.3	737	1077	
C 41 2_17.8	17.8	101	3934	6.6	631	947	67	4426	5.0	721	1098	
C 41 2_19.8	19.8	91	3975	6.0	658	1000	61	4426	4.5	751	1160	
C 41 2_22.6	22.6	80	4098	5.4	643	1045	53	4426	3.9	735	1212	
C 41 2_25.0	25.0	72	4098	4.9	668	1109	48	4426	3.5	763	1285	
C 41 2_28.3	28.3	64	4098	4.4	658	1168	42	4426	3.1	751	1354	
C 41 2_31.4	31.4	57	4098	3.9	683	1236	38	4426	2.8	780	1433	
C 41 2_33.4	33.4	54	4116	3.7	666	1262	36	4426	2.7	761	1463	
C 41 2_37.1	37.1	49	4160	3.4	687	1334	32	4426	2.4	784	1546	
C 41 2_44.8	44.8	40	4426	3.0	724	1432	26.8	4426	2.0	790	1570	
C 41 3_28.5	28.5	63	4590	4.9	724	1109	42	5185	3.7	790	1285	
C 41 3_31.2	31.2	58	4672	4.6	724	1160	38	5277	3.5	790	1345	
C 41 3_36.8	36.8	49	4918	4.1	724	1219	33	5310	3.0	790	1414	
C 41 3_40.3	40.3	45	4918	3.7	724	1285	29.8	5310	2.7	790	1489	
C 41 3_47.0	47.0	38	4918	3.2	724	1375	25.5	5310	2.3	790	1570	
C 41 3_51.5	51.5	35	4918	2.9	724	1432	23.3	5310	2.1	790	1570	160
C 41 3_58.7	58.7	31	4918	2.6	724	1432	20.4	5310	1.9	790	1570	161
C 41 3_64.3	64.3	28.0	4957	2.4	724	1432	18.7	5310	1.7	790	1570	
C 41 3_74.4	74.4	24.2	5222	2.2	724	1432	16.1	5310	1.5	790	1570	
C 41 3_81.5	81.5	22.1	5310	2.0	724	1506	14.7	5310	1.3	790	1570	
C 41 3_93.3	93.3	19.3	5310	1.7	724	1570	12.9	5310	1.2	790	1570	
C 41 3_102.3	102.3	17.6	5310	1.6	724	1570	11.7	5310	1.1	790	1570	
C 41 3_110.1	110.1	16.3	5310	1.5	724	1570	10.9	5310	0.99	790	1570	
C 41 3_120.6	120.6	14.9	5310	1.4	724	1570	10.0	5310	0.90	790	1570	
C 41 3_132.9	132.9	13.5	5310	1.2	724	1570	9.0	5310	0.82	790	1570	
C 41 3_145.6	145.6	12.4	5310	1.1	724	1570	8.2	5310	0.75	790	1570	
C 41 3_164.1	164.1	11.0	5310	0.99	724	1570	7.3	5310	0.66	790	1570	
C 41 3_179.9	179.9	10.0	5310	0.91	724	1570	6.7	5310	0.60	790	1570	
C 41 3_190.8	190.8	9.4	5310	0.85	724	1570	6.3	5310	0.57	790	1570	
C 41 3_209.1	209.1	8.6	5310	0.78	724	1570	5.7	5310	0.52	790	1570	
C 41 4_239.9	239.9	7.5	5310	0.70	395	1570	5.0	5310	0.47	451	1570	
C 41 4_263.0	263.0	6.8	5310	0.64	397	1570	4.6	5310	0.43	454	1570	
C 41 4_304.2	304.2	5.9	5310	0.55	403	1570	3.9	5310	0.37	461	1570	
C 41 4_333.4	333.4	5.4	5310	0.51	405	1570	3.6	5310	0.34	463	1570	
C 41 4_381.8	381.8	4.7	5310	0.44	407	1570	3.1	5310	0.29	465	1570	
C 41 4_418.5	418.5	4.3	5310	0.40	410	1570	2.9	5310	0.27	468	1570	
C 41 4_450.2	450.2	4.0	5310	0.37	412	1570	2.7	5310	0.25	470	1570	
C 41 4_493.5	493.5	3.6	5310	0.34	414	1570	2.4	5310	0.23	473	1570	
C 41 4_543.5	543.5	3.3	5310	0.31	414	1570	2.2	5310	0.21	473	1570	
C 41 4_595.8	595.8	3.0	5310	0.28	416	1570	2.0	5310	0.19	475	1570	
C 41 4_671.3	671.3	2.7	5310	0.25	418	1570	1.8	5310	0.17	477	1570	
C 41 4_735.9	735.9	2.4	5310	0.23	418	1570	1.6	5310	0.15	477	1570	
C 41 4_780.4	780.4	2.3	5310	0.22	420	1570	1.5	5310	0.14	480	1570	
C 41 4_855.5	855.5	2.1	5310	0.20	420	1570	1.4	5310	0.13	480	1570	



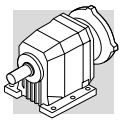
C 51 — 8850 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 51 2_2.6	2.6	692	3247	38	276	861	462	3540	27	329	996	
C 51 2_3.3	3.3	545	3409	31	328	939	364	3717	23	390	1086	
C 51 2_4.5	4.5	400	3531	24	399	1062	267	3850	17.1	475	1229	
C 51 2_5.6	5.6	321	3531	18.9	477	1181	214	3850	13.8	568	1366	
C 51 2_7.0	7.0	257	5113	22	568	1230	171	5849	16.7	676	1423	
C 51 2_7.8	7.8	231	5195	20	592	1277	154	5942	15.3	705	1478	
C 51 2_8.8	8.8	205	5560	19.0	576	1322	136	6360	14.5	686	1530	
C 51 2_9.8	9.8	184	5560	17.0	602	1384	122	6360	13.0	717	1601	
C 51 2_11.8	11.8	153	6250	15.9	578	1452	102	7081	12.0	688	1679	
C 51 2_13.1	13.1	137	6087	14.0	610	1532	92	7081	10.8	726	1772	
C 51 2_15.0	15.0	120	6493	13.0	592	1593	80	7081	9.5	705	1843	
C 51 2_16.6	16.6	108	6453	11.7	620	1667	72	7081	8.5	738	1928	
C 51 2_18.9	18.9	95	6493	10.3	606	1767	63	7081	7.5	721	2044	
C 51 2_21.0	21.0	86	6453	9.2	632	1849	57	7081	6.8	752	2139	
C 51 2_23.4	23.4	77	6506	8.4	618	1940	51	7081	6.1	736	2244	
C 51 2_25.9	25.9	69	6453	7.5	642	2028	46	7081	5.5	764	2250	
C 51 2_29.8	29.8	60	7037	7.1	632	2050	40	7081	4.8	752	2250	
C 51 2_33.0	33.0	55	6860	6.2	656	2050	36	7081	4.3	780	2250	
C 51 2_36.4	36.4	49	6638	5.5	640	2050	33	7081	3.9	762	2250	
C 51 2_40.4	40.4	45	7037	5.2	660	2050	30	7081	3.5	785	2250	
C 51 2_43.1	43.1	42	6461	4.5	652	2109	28	7081	3.3	776	2250	
C 51 2_47.8	47.8	38	7081	4.5	666	2142	25	7081	3.0	790	2250	
C 51 2_51.4	51.4	35	5886	3.4	674	2250	23	6417	2.5	790	2250	
C 51 2_57.0	57.0	32	6594	3.5	672	2250	21	7037	2.5	790	2250	
C 51 3_21.8	21.8	83	7345	10.3	696	1794	55	8403	7.9	790	2075	
C 51 3_23.9	23.9	75	7467	9.6	696	1868	50	8542	7.3	790	2161	
C 51 3_27.4	27.4	66	7873	8.8	696	1942	44	8850	6.6	790	2246	
C 51 3_30.1	30.1	60	8116	8.3	696	2011	40	8850	6.0	790	2250	
C 51 3_37.0	37.0	49	8116	6.7	696	2050	32	8850	4.9	790	2250	
C 51 3_40.5	40.5	44	8116	6.2	696	2050	29.6	8850	4.5	790	2250	168
C 51 3_46.7	46.7	39	8116	5.3	696	2050	25.7	8850	3.9	790	2250	169
C 51 3_51.2	51.2	35	8143	4.9	696	2111	23.4	8850	3.5	790	2250	
C 51 3_59.0	59.0	31	8586	4.5	696	2199	20.3	8850	3.1	790	2250	
C 51 3_64.6	64.6	27.9	8850	4.2	696	2250	18.6	8850	2.8	790	2250	
C 51 3_72.9	72.9	24.7	8850	3.7	696	2250	16.5	8850	2.5	790	2250	
C 51 3_79.9	79.9	22.5	8850	3.4	696	2250	15.0	8850	2.3	790	2250	
C 51 3_93.0	93.0	19.4	8850	2.9	696	2250	12.9	8850	1.9	790	2250	
C 51 3_101.8	101.8	17.7	8850	2.7	696	2250	11.8	8850	1.8	790	2250	
C 51 3_113.6	113.6	15.8	8850	2.4	696	2250	10.6	8850	1.6	790	2250	
C 51 3_124.4	124.4	14.5	8850	2.2	696	2250	9.6	8850	1.5	790	2250	
C 51 3_134.6	134.6	13.4	8850	2.0	696	2250	8.9	8850	1.3	790	2250	
C 51 3_147.4	147.4	12.2	8850	1.8	696	2250	8.1	8850	1.2	790	2250	
C 51 3_160.5	160.5	11.2	8850	1.7	696	2250	7.5	8850	1.1	790	2250	
C 51 3_175.8	175.8	10.2	8850	1.5	696	2250	6.8	8850	1.0	790	2250	
C 51 3_197.9	197.9	9.1	8850	1.4	696	2250	6.1	8850	0.92	790	2250	
C 51 3_216.7	216.7	8.3	8850	1.3	696	2250	5.5	8850	0.84	790	2250	
C 51 4_240.9	240.9	7.5	8850	1.2	437	2250	5.0	8850	0.78	490	2250	
C 51 4_263.8	263.8	6.8	8850	1.1	437	2250	4.5	8850	0.71	490	2250	
C 51 4_297.8	297.8	6.0	8850	0.94	437	2250	4.0	8850	0.63	490	2250	
C 51 4_326.1	326.1	5.5	8850	0.86	437	2250	3.7	8850	0.57	490	2250	
C 51 4_379.6	379.6	4.7	8850	0.74	437	2250	3.2	8850	0.49	490	2250	
C 51 4_415.7	415.7	4.3	8850	0.68	490	2250	2.9	8850	0.45	490	2250	
C 51 4_463.9	463.9	3.9	8850	0.61	490	2250	2.6	8850	0.40	490	2250	
C 51 4_508.0	508.0	3.5	8850	0.55	490	2250	2.4	8850	0.37	490	2250	
C 51 4_549.7	549.7	3.3	8850	0.51	490	2250	2.2	8850	0.34	490	2250	
C 51 4_602.0	602.0	3.0	8850	0.47	490	2250	2.0	8850	0.31	490	2250	
C 51 4_655.4	655.4	2.7	8850	0.43	490	2250	1.8	8850	0.29	490	2250	
C 51 4_717.7	717.7	2.5	8850	0.39	490	2250	1.7	8850	0.26	490	2250	
C 51 4_808.0	808.0	2.2	8850	0.35	490	2250	1.5	8850	0.23	490	2250	
C 51 4_884.9	884.9	2.0	8850	0.32	490	2250	1.4	8850	0.21	490	2250	



C 61 — 14200 lb·in

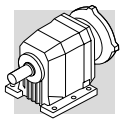
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 61 2_2.8	2.8	643	4513	48	147	1218	429	5097	36	182	1406	
C 61 2_3.7	3.7	486	4718	38	329	1356	324	5329	29	409	1565	
C 61 2_4.6	4.6	391	5089	33	409	1465	261	5560	24	508	1691	
C 61 2_6.0	6.0	300	5128	26	514	1634	200	5792	19	639	1886	
C 61 2_6.7	6.7	269	9272	42	543	1451	179	10472	31	674	1674	
C 61 2_7.5	7.5	240	10256	41	552	1461	160	11584	31	686	1686	
C 61 2_8.8	8.8	205	10256	35	567	1580	136	11584	26	705	1824	
C 61 2_9.8	9.8	184	11077	34	634	1613	122	11949	24	788	1862	
C 61 2_10.9	10.9	165	11077	31	569	1687	110	11949	22	695	1947	
C 61 2_12.1	12.1	149	11077	28	685	1794	99	11949	19.8	851	2071	
C 61 2_14.3	14.3	126	11077	23	684	1938	84	11949	16.7	849	2237	
C 61 2_15.9	15.9	113	11077	21	720	2053	75	11949	15.1	894	2369	
C 61 2_17.7	17.7	102	11077	18.8	705	2137	68	11949	13.5	875	2467	
C 61 2_19.6	19.6	92	11506	17.6	741	2260	61	11949	12.2	920	2609	
C 61 2_22.4	22.4	80	11077	14.9	725	2384	54	11949	10.7	901	2751	
C 61 2_24.8	24.8	73	11949	14.5	758	2527	48	11949	9.7	941	2917	
C 61 2_27.4	27.4	66	11506	12.6	739	2630	44	11949	8.7	918	3036	
C 61 2_30.4	30.4	59	11949	11.8	771	2774	39	11949	7.9	958	3202	
C 61 2_34.2	34.2	53	10312	9.1	779	2979	35	11352	6.6	967	3439	
C 61 2_38.0	38.0	47	11329	9.0	781	3041	32	11949	6.3	970	3510	
C 61 3_26.8	26.8	67	11774	13.5	895	2548	45	13298	10.2	1060	2941	
C 61 3_29.4	29.4	61	12020	12.6	895	2651	41	13576	9.5	1060	3060	
C 61 3_33.0	33.0	55	12513	11.6	895	2733	36	14132	8.8	1060	3154	
C 61 3_36.1	36.1	50	12759	10.8	895	2836	33	14200	8.0	1060	3273	
C 61 3_43.4	43.4	41	13128	9.3	895	3041	27.6	14200	6.7	1060	3510	
C 61 3_47.6	47.6	38	13128	8.5	895	3185	25.2	14200	6.1	1060	3600	
C 61 3_53.5	53.5	34	13128	7.5	895	3288	22.4	14200	5.4	1060	3600	176
C 61 3_58.6	58.6	31	13128	6.9	895	3288	20.5	14200	4.9	1060	3600	177
C 61 3_67.7	67.7	26.6	13128	6.0	895	3288	17.7	14200	4.3	1060	3600	
C 61 3_74.2	74.2	24.3	13586	5.6	895	3288	16.2	14200	3.9	1060	3600	
C 61 3_83.0	83.0	21.7	14200	5.2	895	3288	14.5	14200	3.5	1060	3600	
C 61 3_91.0	91.0	19.8	14200	4.8	895	3417	13.2	14200	3.2	1060	3600	
C 61 3_103.6	103.6	17.4	14200	4.2	895	3600	11.6	14200	2.8	1060	3600	
C 61 3_113.6	113.6	15.8	14200	3.8	895	3600	10.6	14200	2.6	1060	3600	
C 61 3_128.1	128.1	14.1	14200	3.4	895	3600	9.4	14200	2.3	1060	3600	
C 61 3_140.5	140.5	12.8	14200	3.1	895	3600	8.5	14200	2.1	1060	3600	
C 61 3_150.0	150.0	12.0	14200	2.9	895	3600	8.0	14200	1.9	1060	3600	
C 61 3_164.5	164.5	10.9	14200	2.6	895	3600	7.3	14200	1.8	1060	3600	
C 61 3_178.6	178.6	10.1	14200	2.4	895	3600	6.7	14200	1.6	1060	3600	
C 61 3_195.8	195.8	9.2	14200	2.2	895	3600	6.1	14200	1.5	1060	3600	
C 61 4_217.4	217.4	8.3	14200	2.1	666	3600	5.5	14200	1.4	790	3600	
C 61 4_238.3	238.3	7.6	14200	1.9	666	3600	5.0	14200	1.3	790	3600	
C 61 4_275.3	275.3	6.5	14200	1.6	666	3600	4.4	14200	1.1	790	3600	
C 61 4_301.7	301.7	6.0	14200	1.5	666	3600	4.0	14200	0.99	790	3600	
C 61 4_337.7	337.7	5.3	14200	1.3	666	3600	3.6	14200	0.89	790	3600	
C 61 4_370.1	370.1	4.9	14200	1.2	666	3600	3.2	14200	0.81	790	3600	
C 61 4_421.5	421.5	4.3	14200	1.1	666	3600	2.8	14200	0.71	790	3600	
C 61 4_462.0	462.0	3.9	14200	0.97	666	3600	2.6	14200	0.65	790	3600	
C 61 4_521.1	521.1	3.5	14200	0.86	666	3600	2.3	14200	0.57	790	3600	
C 61 4_571.2	571.2	3.2	14200	0.79	666	3600	2.1	14200	0.52	790	3600	
C 61 4_610.1	610.1	3.0	14200	0.74	666	3600	2.0	14200	0.49	790	3600	
C 61 4_668.8	668.8	2.7	14200	0.67	666	3600	1.8	14200	0.45	790	3600	
C 61 4_726.3	726.3	2.5	14200	0.62	666	3600	1.7	14200	0.41	790	3600	
C 61 4_796.1	796.1	2.3	14200	0.56	666	3600	1.5	14200	0.38	790	3600	



C 70 — 20400 lb·in

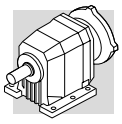
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 70 2_4.6	4.6	391	13933	91	—	1480	261	15754	69	—	1673	
C 70 2_5.9	5.9	305	15573	79	—	1457	203	17260	59	—	1647	
C 70 2_6.3	6.3	286	15982	76	456	1719	190	18071	57	640	1944	
C 70 2_7.5	7.5	240	15982	64	—	1751	160	18071	48	—	1979	
C 70 2_8.0	8.0	225	17212	65	463	1851	150	19461	49	649	2092	
C 70 2_9.5	9.5	189	16392	52	—	2065	126	18534	39	151	2335	
C 70 2_10.2	10.2	176	17212	51	776	2251	118	19461	38	1087	2544	
C 70 2_11.2	11.2	161	16392	44	186	2355	107	18534	33	260	2662	
C 70 2_13.0	13.0	138	18145	42	972	2688	92	18587	29	1362	3039	
C 70 2_14.1	14.1	128	17212	37	247	2584	85	19030	27	311	2921	
C 70 2_15.3	15.3	118	18587	37	1017	2980	78	18587	24	1425	3369	
C 70 2_16.7	16.7	108	16802	30	408	2980	72	18145	22	572	3369	
C 70 2_19.3	19.3	93	18587	29	1041	3397	62	18587	19.3	1459	3840	
C 70 2_22.9	22.9	79	18587	24	1052	3751	52	18587	16.3	1474	4241	
C 70 2_27.7	27.7	65	18587	20	1062	4147	43	18587	13.4	1489	4688	
C 70 2_34.7	34.7	52	18587	16.1	1073	4626	35	18587	10.7	1503	5230	
C 70 3_41.3	41.3	44	18851	14.0	1215	4751	29.1	20400	10.1	1570	5372	
C 70 3_44.7	44.7	40	18851	12.9	1215	4960	26.8	20400	9.3	1570	5607	
C 70 3_52.2	52.2	34	18851	11.1	1215	5210	23.0	20400	8.0	1570	5620	
C 70 3_56.5	56.5	32	18851	10.2	1215	5210	21.2	20400	7.4	1570	5620	
C 70 3_65.9	65.9	27.3	19472	9.1	1215	5210	18.2	20400	6.3	1570	5620	
C 70 3_71.3	71.3	25.2	19472	8.4	1215	5210	16.8	20400	5.8	1570	5620	
C 70 3_81.4	81.4	22.1	20400	7.7	1215	5210	14.7	20400	5.1	1570	5620	
C 70 3_88.2	88.2	20.4	20400	7.1	1215	5306	13.6	20400	4.7	1570	5620	
C 70 3_103.8	103.8	17.3	20400	6.0	1215	5620	11.6	20400	4.0	1570	5620	
C 70 3_112.4	112.4	16.0	20400	5.6	1215	5620	10.7	20400	3.7	1570	5620	182
C 70 3_126.8	126.8	14.2	20400	4.9	1215	5620	9.5	20400	3.3	1570	5620	183
C 70 3_137.4	137.4	13.1	20400	4.5	1215	5620	8.7	20400	3.0	1570	5620	
C 70 3_150.3	150.3	12.0	20400	4.2	1215	5620	8.0	20400	2.8	1570	5620	
C 70 3_162.8	162.8	11.1	20400	3.8	1215	5620	7.4	20400	2.6	1570	5620	
C 70 3_179.2	179.2	10.0	20400	3.5	1215	5620	6.7	20400	2.3	1570	5620	
C 70 3_194.1	194.1	9.3	20400	3.2	1215	5620	6.2	20400	2.1	1570	5620	
C 70 3_220.9	220.9	8.1	20400	2.8	1215	5620	5.4	20400	1.9	1570	5620	
C 70 3_239.3	239.3	7.5	20400	2.6	1215	5620	5.0	20400	1.7	1570	5620	
C 70 4_251.3	251.3	7.2	20400	2.6	455	5620	4.8	20400	1.7	637	5620	
C 70 4_272.2	272.2	6.6	20400	2.4	460	5620	4.4	20400	1.6	645	5620	
C 70 4_317.9	317.9	5.7	20400	2.0	460	5620	3.8	20400	1.4	645	5620	
C 70 4_344.3	344.3	5.2	20400	1.9	463	5620	3.5	20400	1.3	649	5620	
C 70 4_409.4	409.4	4.4	20400	1.6	463	5620	2.9	20400	1.1	649	5620	
C 70 4_443.5	443.5	4.1	20400	1.5	469	5620	2.7	20400	0.97	657	5620	
C 70 4_512.0	512.0	3.5	20400	1.3	465	5620	2.3	20400	0.84	652	5620	
C 70 4_554.7	554.7	3.2	20400	1.2	470	5620	2.2	20400	0.78	659	5620	
C 70 4_606.8	606.8	3.0	20400	1.1	469	5620	2.0	20400	0.71	657	5620	
C 70 4_657.3	657.3	2.7	20400	0.98	472	5620	1.8	20400	0.65	662	5620	
C 70 4_736.0	736.0	2.4	20400	0.88	470	5620	1.6	20400	0.58	657	5620	
C 70 4_797.3	797.3	2.3	20400	0.81	474	5620	1.5	20400	0.54	662	5620	
C 70 4_922.6	922.6	2.0	20400	0.70	472	5620	1.3	20400	0.47	659	5620	
C 70 4_999.5	999.5	1.8	20400	0.65	474	5620	1.2	20400	0.43	664	5620	
C 70 4_1069	1069	1.7	20400	0.60	472	5620	1.1	20400	0.40	662	5620	
C 70 4_1158	1158	1.6	20400	0.56	486	5620	1.0	20400	0.37	681	5620	
C 70 4_1362	1362	1.3	20400	0.47	486	5620	0.9	20400	0.32	681	5620	
C 70 4_1476	1476	1.2	20400	0.44	486	5620	0.8	20400	0.29	681	5620	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



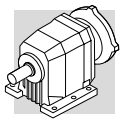
C 80 — 35400 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 80 2_5.6	5.6	321	25435	136	110	2561	214	28728	103	164	2895	
C 80 2_6.1	6.1	295	25846	127	220	2644	197	29191	96	328	2989	
C 80 2_7.0	7.0	257	27487	118	145	2685	171	30979	89	216	3036	
C 80 2_7.6	7.6	237	27897	110	255	2769	158	31508	83	381	3131	
C 80 2_8.9	8.9	202	28717	97	179	3019	135	30979	70	266	3413	
C 80 2_9.6	9.6	188	30358	95	220	2894	125	32749	68	328	3272	
C 80 2_11.1	11.1	162	28717	78	311	3560	108	30979	56	464	4025	
C 80 2_12.0	12.0	150	30358	76	349	3456	100	32749	55	521	3907	
C 80 2_13.8	13.8	130	28717	63	371	4122	87	30979	45	554	4660	
C 80 2_14.9	14.9	121	30358	61	408	4018	81	32749	44	609	4543	
C 80 2_16.7	16.7	108	28717	52	453	4642	72	30979	37	675	5249	
C 80 2_18.1	18.1	99	30358	50	488	4580	66	32749	36	728	5178	
C 80 2_20.5	20.5	88	29128	43	488	5163	59	31421	31	728	5837	
C 80 2_22.2	22.2	81	30358	41	542	5184	54	32749	30	809	5861	
C 80 2_24.0	24.0	75	29128	36	507	5621	50	31421	26	756	6355	
C 80 2_25.9	25.9	69	30358	35	559	5662	46	32749	25	835	6402	
C 80 2_31.3	31.3	58	30358	29	595	6245	38	32749	21	887	7061	
C 80 2_39.1	39.1	46	26256	20	859	7286	31	28324	14.5	1204	7870	
C 80 3_43.5	43.5	41	31179	22	1261	7244	27.6	35215	16.6	1570	7870	
C 80 3_47.4	47.4	38	31179	20	1272	7286	25.3	35215	15.2	1570	7870	
C 80 3_57.3	57.3	31	32820	17.6	1263	7286	20.9	35400	12.6	1570	7870	
C 80 3_62.5	62.5	28.8	32820	16.1	1275	7286	19.2	35400	11.6	1570	7870	
C 80 3_70.5	70.5	25.5	32820	14.3	1263	7286	17.0	35400	10.3	1570	7870	
C 80 3_76.9	76.9	23.4	32820	13.1	1275	7286	15.6	35400	9.4	1570	7870	
C 80 3_89.3	89.3	20.2	34519	11.9	1263	7286	13.4	35400	8.1	1570	7870	
C 80 3_97.4	97.4	18.5	34519	10.9	1275	7870	12.3	35400	7.4	1570	7870	188
C 80 3_109.5	109.5	16.4	35400	9.9	1266	7870	11.0	35400	6.6	1570	7870	189
C 80 3_119.5	119.5	15.1	35400	9.1	1277	7870	10.0	35400	6.1	1570	7870	
C 80 3_136.7	136.7	13.2	35400	8.0	1272	7870	8.8	35400	5.3	1570	7870	
C 80 3_149.1	149.1	12.1	35400	7.3	1281	7870	8.0	35400	4.9	1570	7870	
C 80 3_169.0	169.0	10.7	35400	6.4	1277	7870	7.1	35400	4.3	1570	7870	
C 80 3_184.4	184.4	9.8	35400	5.9	1286	7870	6.5	35400	3.9	1570	7870	
C 80 3_197.9	197.9	9.1	35400	5.5	1284	7870	6.1	35400	3.7	1570	7870	
C 80 3_215.8	215.8	8.3	35400	5.0	1288	7870	5.6	35400	3.4	1570	7870	
C 80 4_261.9	261.9	6.9	35400	4.3	416	7870	4.6	35400	2.9	587	7870	
C 80 4_285.7	285.7	6.3	35400	3.9	425	7870	4.2	35400	2.6	597	7870	
C 80 4_334.3	334.3	5.4	35400	3.4	423	7870	3.6	35400	2.2	595	7870	
C 80 4_364.7	364.7	4.9	35400	3.1	432	7870	3.3	35400	2.1	604	7870	
C 80 4_417.5	417.5	4.3	35400	2.7	429	7870	2.9	35400	1.8	602	7870	
C 80 4_455.4	455.4	4.0	35400	2.5	438	7870	2.6	35400	1.6	611	7870	
C 80 4_529.3	529.3	3.4	35400	2.1	436	7870	2.3	35400	1.4	607	7870	
C 80 4_577.4	577.4	3.1	35400	1.9	443	7870	2.1	35400	1.3	616	7870	
C 80 4_664.3	664.3	2.7	35400	1.7	441	7870	1.8	35400	1.1	611	7870	
C 80 4_724.7	724.7	2.5	35400	1.5	447	7870	1.7	35400	1.0	621	7870	
C 80 4_783.4	783.4	2.3	35400	1.4	443	7870	1.5	35400	0.96	616	7870	
C 80 4_854.6	854.6	2.1	35400	1.3	450	7870	1.4	35400	0.88	623	7870	
C 80 4_945.7	945.7	1.9	35400	1.2	445	7870	1.3	35400	0.79	618	7870	
C 80 4_1032	1032	1.7	35400	1.1	452	7870	1.2	35400	0.73	626	7870	
C 80 4_1168	1168	1.5	35400	0.96	445	7870	1.0	35400	0.64	618	7870	
C 80 4_1274	1274	1.4	35400	0.88	454	7870	0.9	35400	0.59	628	7870	
C 80 4_1358	1358	1.3	35400	0.83	447	7870	0.9	35400	0.55	621	7870	
C 80 4_1481	1481	1.2	35400	0.76	456	7870	0.8	35400	0.51	628	7870	



C 90 — 63700 lb·in

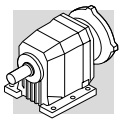
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 90 2_5.2	5.2	346	35281	204	382	3293	231	39849	154	528	3722	
C 90 2_5.6	5.6	321	36102	194	738	3334	214	40775	146	1034	3770	
C 90 2_6.8	6.8	265	38974	172	418	3418	176	44019	130	519	3864	
C 90 2_7.3	7.3	247	39794	164	780	3480	164	44946	123	1061	3935	
C 90 2_8.3	8.3	217	41845	152	452	3564	145	47262	114	607	4029	
C 90 2_9.0	9.0	200	42666	142	823	3647	133	48189	107	1148	4123	
C 90 2_10.4	10.4	173	45538	132	223	3626	115	51433	99	280	4099	
C 90 2_11.2	11.2	161	46358	124	618	3710	107	52359	94	842	4194	
C 90 2_12.8	12.8	141	48820	115	146	3793	94	55139	86	204	4288	
C 90 2_13.9	13.9	129	49640	107	607	3897	86	56066	81	783	4406	
C 90 2_16.0	16.0	113	50871	96	165	4335	75	54877	69	231	4900	
C 90 2_17.3	17.3	104	53332	93	382	4126	69	57975	67	535	4665	
C 90 2_18.7	18.7	96	50871	82	260	5064	64	54877	59	365	5725	
C 90 2_20.2	20.2	89	54153	81	375	4689	59	58417	58	525	5301	
C 90 2_22.9	22.9	79	50871	67	474	5752	52	54877	48	657	6503	
C 90 2_24.8	24.8	73	54153	66	580	5689	48	58417	47	812	6432	
C 90 2_27.2	27.2	66	45127	50	1385	6710	44	48681	36	1902	7586	
C 90 2_29.4	29.4	61	48409	49	1475	6669	41	52222	36	1978	7539	
C 90 2_35.1	35.1	51	44307	38	1926	7565	34	47796	27	2700	8552	
C 90 3_39.4	39.4	46	58255	45	2428	6856	30	63700	33	3332	7751	
C 90 3_43.0	43.0	42	59076	42	2428	7086	27.9	63700	30	3357	8010	
C 90 3_50.3	50.3	36	60188	37	2428	7711	23.9	63700	26	3357	8717	
C 90 3_54.9	54.9	33	61958	35	2450	7982	21.9	63700	24	3372	9024	
C 90 3_59.2	59.2	30	62843	33	2428	8336	20.3	63700	22	3372	9424	
C 90 3_64.6	64.6	27.9	63700	30	2450	8607	18.6	63700	20	3372	9730	
C 90 3_74.4	74.4	24.2	63700	26	2450	9253	16.1	63700	17.5	3372	10461	194
C 90 3_81.2	81.2	22.2	63700	24	2450	9566	14.8	63700	16.1	3372	10814	195
C 90 3_88.2	88.2	20.4	63700	22	2473	9982	13.6	63700	14.8	3372	11285	
C 90 3_96.2	96.2	18.7	63700	20	2473	10295	12.5	63700	13.6	3372	11639	
C 90 3_107.0	107.0	16.8	63700	18.0	2473	10858	11.2	63700	12.2	3372	12275	
C 90 3_116.7	116.7	15.4	63700	16.8	2473	11191	10.3	63700	11.2	3372	12652	
C 90 3_134.1	134.1	13.4	63700	14.4	2473	11941	8.9	63700	9.7	3372	13500	
C 90 3_146.3	146.3	12.3	63700	13.4	2473	12296	8.2	63700	8.9	3372	13500	
C 90 3_157.8	157.8	11.4	63700	12.2	2473	12504	7.6	63700	8.3	3372	13500	
C 90 3_172.1	172.1	10.5	63700	11.4	2473	12504	7.0	63700	7.6	3372	13500	
C 90 4_212.4	212.4	8.5	63700	9.5	205	13500	5.6	63700	6.3	287	13500	
C 90 4_231.7	231.7	7.8	63700	8.7	271	13500	5.2	63700	5.8	379	13500	
C 90 4_268.5	268.5	6.7	63700	7.5	267	13500	4.5	63700	5.0	375	13500	
C 90 4_292.9	292.9	6.1	63700	6.9	326	13500	4.1	63700	4.6	457	13500	
C 90 4_339.0	339.0	5.3	63700	6.0	299	13500	3.5	63700	4.0	418	13500	
C 90 4_369.8	369.8	4.9	63700	5.5	356	13500	3.2	63700	3.6	499	13500	
C 90 4_419.0	419.0	4.3	63700	4.8	328	13500	2.9	63700	3.2	460	13500	
C 90 4_457.1	457.1	3.9	63700	4.4	384	13500	2.6	63700	2.9	538	13500	
C 90 4_534.2	534.2	3.4	63700	3.8	363	13500	2.2	63700	2.5	508	13500	
C 90 4_582.8	582.8	3.1	63700	3.5	394	13500	2.1	63700	2.3	552	13500	
C 90 4_652.8	652.8	2.8	63700	3.1	375	13500	1.8	63700	2.1	525	13500	
C 90 4_712.2	712.2	2.5	63700	2.8	397	13500	1.7	63700	1.9	557	13500	
C 90 4_773.6	773.6	2.3	63700	2.6	390	13500	1.6	63700	1.7	547	13500	
C 90 4_844.0	844.0	2.1	63700	2.4	401	13500	1.4	63700	1.6	562	13500	
C 90 4_922.3	922.3	2.0	63700	2.2	392	13500	1.3	63700	1.5	550	13500	
C 90 4_1006	1006	1.8	63700	2.0	403	13500	1.2	63700	1.3	564	13500	
C 90 4_1137	1137	1.6	63700	1.8	394	13500	1.1	63700	1.2	552	13500	
C 90 4_1240	1240	1.5	63700	1.6	387	13500	1.0	63700	1.1	542	13500	



C 100 — 106200 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
C 100 2_4.9	4.9	367	55794	342	711	5272	245	63016	258	943	5961	
C 100 2_5.3	5.3	340	57025	323	926	5377	226	64407	243	1229	6079	
C 100 2_6.5	6.5	277	61948	286	741	5627	185	69967	216	983	6361	
C 100 2_7.1	7.1	254	62768	266	988	5814	169	70894	200	1312	6573	
C 100 2_8.4	8.4	214	67281	241	744	5939	143	75990	181	988	6715	
C 100 2_9.0	9.0	200	68512	229	973	6085	133	77381	172	1292	6880	
C 100 2_10.1	10.1	178	71794	214	731	6148	119	81087	161	971	6950	
C 100 2_10.9	10.9	165	71794	198	1024	6585	110	81087	149	1359	7445	
C 100 2_12.5	12.5	144	77127	185	611	6419	96	87111	140	811	7257	
C 100 2_13.5	13.5	133	77947	174	877	6690	89	88038	131	1165	7563	
C 100 2_15.2	15.2	118	82050	162	502	6773	79	92671	122	667	7657	
C 100 2_16.5	16.5	109	83281	152	829	7002	73	94061	114	1100	7916	
C 100 2_18.7	18.7	96	82050	132	675	7919	64	92671	99	896	8953	
C 100 2_20.2	20.2	89	82050	122	977	8253	59	92671	92	1297	9330	
C 100 2_22.2	22.2	81	75486	102	1117	9190	54	85258	77	1483	10390	
C 100 2_24.1	24.1	75	82050	102	1106	9024	50	92671	77	1468	10202	
C 100 2_29.6	29.6	61	69742	71	1729	10878	41	78771	53	2295	12298	
C 100 3_34.3	34.3	52	95998	86	2437	9670	35	103558	62	3235	10932	
C 100 3_36.9	36.9	49	96819	81	2456	10003	33	104443	58	3260	11309	
C 100 3_42.9	42.9	42	100460	72	2456	10670	28.0	106200	51	3260	12063	
C 100 3_46.2	46.2	39	103558	69	2494	11066	26.0	106200	47	3310	12510	
C 100 3_53.3	53.3	34	106200	61	2475	11858	22.5	106200	41	3285	13406	
C 100 3_57.4	57.4	31	106200	57	2512	12296	20.9	106200	38	3335	13900	
C 100 3_64.5	64.5	27.9	106200	51	2512	12983	18.6	106200	34	3335	14678	
C 100 3_69.4	69.4	25.9	106200	47	2531	13442	17.3	106200	31	3360	15196	
C 100 3_79.4	79.4	22.7	106200	41	2531	14296	15.1	106200	27	3360	16162	200
C 100 3_85.6	85.6	21.0	106200	38	2550	14775	14.0	106200	25	3372	16704	201
C 100 3_92.7	92.7	19.4	106200	35	2531	15317	12.9	106200	23	3372	17317	
C 100 3_99.8	99.8	18.0	106200	33	2550	15817	12.0	106200	22	3372	17882	
C 100 3_111.9	111.9	16.1	106200	29	2531	16630	10.7	106200	19.4	3372	18801	
C 100 3_120.5	120.5	14.9	106200	27	2569	17172	10.0	106200	18.0	3372	19100	
C 100 3_139.7	139.7	12.9	97800	21	2569	17714	8.6	97800	14.3	3372	19100	
C 100 3_150.4	150.4	12.0	106200	22	2569	17714	8.0	106200	14.5	3372	19100	
C 100 4_162.1	162.1	11.1	106200	21	—	19100	7.4	106200	13.9	—	19100	
C 100 4_185.4	185.4	9.7	106200	18.2	—	19100	6.5	106200	12.1	—	19100	
C 100 4_199.6	199.6	9.0	106200	16.9	—	19100	6.0	106200	11.3	—	19100	
C 100 4_244.2	244.2	7.4	106200	13.8	—	19100	4.9	106200	9.2	—	19100	
C 100 4_263.0	263.0	6.8	106200	12.8	—	19100	4.6	106200	8.5	—	19100	
C 100 4_300.5	300.5	6.0	106200	11.2	—	19100	4.0	106200	7.5	—	19100	
C 100 4_323.6	323.6	5.6	106200	10.4	—	19100	3.7	106200	6.9	—	19100	
C 100 4_380.5	380.5	4.7	106200	8.9	—	19100	3.2	106200	5.9	—	19100	
C 100 4_409.8	409.8	4.4	106200	8.2	—	19100	2.9	106200	5.5	—	19100	
C 100 4_466.7	466.7	3.9	106200	7.2	—	19100	2.6	106200	4.8	—	19100	
C 100 4_502.6	502.6	3.6	106200	6.7	—	19100	2.4	106200	4.5	—	19100	
C 100 4_582.6	582.6	3.1	106200	5.8	—	19100	2.1	106200	3.9	—	19100	
C 100 4_627.4	627.4	2.9	106200	5.4	—	19100	1.9	106200	3.6	—	19100	
C 100 4_720.3	720.3	2.5	106200	4.7	—	19100	1.7	106200	3.1	—	19100	
C 100 4_775.7	775.7	2.3	106200	4.3	—	19100	1.5	106200	2.9	—	19100	
C 100 4_843.3	843.3	2.1	106200	4.0	—	19100	1.4	106200	2.7	—	19100	
C 100 4_908.2	908.2	2.0	106200	3.7	156	19100	1.3	106200	2.5	207	19100	
C 100 4_1004	1004	1.8	106200	3.4	—	19100	1.2	106200	2.2	—	19100	
C 100 4_1081	1081	1.7	106200	3.1	163	19100	1.1	106200	2.1	217	19100	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



27 MOTOR AVAILABILITY

Please be aware that motor-gearbox combinations resulting from following charts are purely based on geometrical compatibility.

When selecting a gearmotor. refer to procedure specified at paragraph 12 and observe particularly the condition $S \geq f_S$.

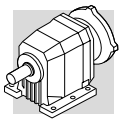
(B 21)

		IEC_ BN BE BX (IM B5)									
		P63 P71	P80 P90	P100 P112	P132	P160	P180	P200	P225	P250	P280
C 12 2	i =	2.8_66.2	2.8_47.6	2.8_47.6							
C 22 2		3.7_63.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7							
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0							
C 32 2		5.0_66.8 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1						
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7							
C 36 2		4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0						
C 36 3		38.1_206.4	22.1_206.4	22.1_206.4	22.1_77.6						
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5							
C 41 2		14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4						
C 41 3		47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3						
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5							
C 51 2		18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4				
C 51 3		59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4				
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9							
C 61 2		22.4_38.0	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0				
C 61 3		67.7_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5				
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1							
C 70 2			14.1_34.7 ⛀ (15.3)	14.1_34.7 ⛀ (15.3)	7.5_34.7 ⛀ (8.0)	4.6_34.7	4.6_34.7*	4.6_10.2* ⛀ (9.5)			
C 70 3			41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4*				
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_554.7						
C 80 2			20.5_39.1	20.5_39.1	11.1_39.1	7.0_39.1	5.6_39.1	5.6_25.9*	5.6_25.9*		
C 80 3			43.5_215.8	43.5_215.8	43.5_184.4	43.5_184.4	43.5_184.4				
C 80 4		334.3_1481	261.9_1481	261.9_1481	261.9_724.7						
C 90 2			22.9_35.1	22.9_35.1	12.8_35.1	10.4_35.1	10.4_35.1	5.2_29.4	5.2_29.4*	5.2_29.4*	
C 90 3			74.4_172.1	74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2	39.4_96.2*	39.4_96.2*	
C 90 4		339.0_1240	212.4_1240	212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2				
C 100 2				29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6	4.9_29.6	4.9_29.6*	4.9_29.6*
C 100 3				79.4_150.4	42.9_150.4	34.3_150.4	34.3_150.4	34.3_99.8	34.3_99.8*	34.3_99.8	34.3_99.8*
C 100 4		380.5_1081	162.1_1081	162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7				

For mounting position B3-B5 B6-B7-B8 the motor marked with * will be supplied in B3/B5

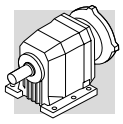
(B 22)

		NEMA Motor frame						
		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
	HP	0.16 ... 1	1.5 ... 2	3 ... 5	7.5 ... 10	15 ... 20	25 ... 30	40 ... 60
C 12 2		2.8_66.2	2.8_47.6	2.8_47.6				
C 22 2		3.7_63.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0				
C 32 2		5.0_66.8 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1			
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7				
C 38 2		4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0			
C 38 3		38.1_206.4	22.1_206.4	22.1_206.4	22.1_77.6			
C 38 4		230.9_848.5	230.9_848.5	230.9_848.5				
C 41 2		14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4			
C 41 3		47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3			
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5				
C 61 2		18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4	
C 61 3		59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4	
C 61 4		240.9_884.9	240.9_884.9	240.9_884.9				
C 61 2	I=	22.4_38.0	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0	
C 61 3		67.7_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5	
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1				
C 70 2			14.1_34.7 ⛀ (15.3)	14.1_34.7 ⛀ (15.3)	7.5_34.7 ⛀ (8.0)	4.6_34.7	4.6_34.7"	
C 70 3			41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4"	
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_554.7			
C 80 2			20.5_39.1	20.5_39.1	11.1_39.1	7.0_39.1	5.6_39.1	5.6_25.9"
C 80 3			43.5_215.8	43.5_215.8	43.5_184.4	43.5_184.4	43.5_184.4	
C 80 4		334.3_1481	261.9_1481	261.9_1481	261.9_724.7			
C 90 2			22.9_35.1	22.9_35.1	12.8_35.1	10.4_35.1	10.4_35.1	5.2_29.4"
C 90 3			74.4_172.1	74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2"
C 90 4		339.0_1240	212.4_1240	212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2	
C 100 2				29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6
C 100 3				79.4_150.4	42.9_150.4	34.3_150.4	34.3_150.4	34.3_99.8"
C 100 4		380.5_1081	162.1_1081	162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7	



(B 23)

		M	ME	MX				
		M0	M05	M1	ME2 - MX2	ME3 - MX3	ME4 - MX4	ME5 - MX5
C 05 2	i =	27.1_44.7	5.5_44.7	5.5_44.7				
C 12 2			2.8_66.2	2.8_37.0	2.8_47.7	2.8_47.7		
C 22 2			3.7_63.3 ⛀ (7.1_8.7)	3.7_43.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7		
C 22 3			60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0		
C 32 2				5.0_52.4 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1	
C 32 3			74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7		
C 36 2				4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0	
C 36 3				38.1_162.0	22.1_206.4	22.1_206.4	22.1_77.6	
C 36 4			230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5		
C 41 2				14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4	
C 41 3				47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3	
C 41 4			239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5		
C 51 2				18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4
C 51 3				59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4
C 51 4				240.9_884.9	240.9_884.9	240.9_884.9		
C 61 2					3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0
C 61 3					26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5
C 61 4				217.4_796.1	217.4_796.1	217.4_796.1		
C 70 2					14.1_34.7 ⛀ (15.3)	14.1_34.7 ⛀ (15.3)	7.5_34.7 ⛀ (8.0)	7.5_34.7 ⛀ (8.0)
C 70 3					41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4
C 70 4				251.3_1476	251.3_1476	251.3_1476	251.3_554.7	
C 80 2						20.5_39.1	11.1_39.1	11.1_39.1
C 80 3						43.5_215.8	43.5_184.4	43.5_184.4
C 80 4				334.3_1481	261.9_1481	261.9_1481	261.9_724.7	
C 90 2						22.9_35.1	12.8_35.1	12.8_35.1
C 90 3						74.4_172.1	39.4_172.1	39.4_172.1
C 90 4				339.0_1240	212.4_1240	212.4_1240	212.4_712.2	
C 100 2							15.2_29.6	15.2_29.6
C 100 3							42.9_150.4	42.9_150.4
C 100 4				380.5_1081	162.1_1081	162.1_1081	162.1_775.7	



Motor adapters matching the most popular brands of servomotors are available for units size C12… C61. Dimensions of servomotor inputs are provided within the drawing section for each frame size. The code **SK** applies for inputs featuring a conventional keyway. while through the specification of the **SC** code the input shaft will feature a clamping device instead.

(B 24)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
C 12 2	i =	2.8_66.2	2.8_66.2	2.8_66.2		2.8_47.6	2.8_66.2	2.8_47.6	2.8_47.6
C 22 2		3.7_63.3 ⛀ (7.1_8.7)	3.7_63.3 ⛀ (7.1_8.7)	3.7_63.3 ⛀ (7.1_8.7)		2.7_54.7	3.7_63.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0		60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0
C 32 2		5.0_66.8 ⛀ (7.2_11.2)	5.0_66.8 ⛀ (7.2_11.2)	5.0_66.8 ⛀ (7.2_11.2)		2.9_66.8	5.0_66.8 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7		74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7
C 36 2		4.6_19.0 ⛀ (6.8_10.6)	4.6_19.0 ⛀ (6.8_10.6)	4.6_19.0 ⛀ (6.8_10.6)		2.7_19.0	4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0
C 36 3		38.1_206.4	38.1_206.4	38.1_206.4		22.1_206.4	38.1_206.4	22.1_206.4	22.1_206.4
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5		230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5
C 41 2					6.0_44.8 ⛀ (6.4_12.4)	2.7_44.8	6.0_44.8 ⛀ (6.4_12.4)	2.7_44.8	2.7_44.8
C 41 3					47.0_209.1	28.5_209.1	47.0_209.1	28.5_209.1	28.5_209.1
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5		239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5
C 51 2					18.9_57.0	2.6_57.0	18.9_57.0	2.6_57.0	2.6_57.0
C 51 3					59.0_216.7	21.8_216.7	59.0_216.7	21.8_216.7	21.8_216.7
C 51 4						240.9_884.9	240.9_884.9	240.9_884.9	240.9_884.9
C 61 2						3.7_38.0 ⛀ (6.7_7.5)	22.4_38.0	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)
C 61 3						26.8_195.8	67.7_195.8	26.8_195.8	26.8_195.8
C 61 4					217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1

(B 25)

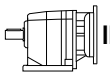
		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
C 12 2	i =	2.8_47.6	2.8_47.6				
C 22 2		2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0				
C 32 2		2.9_66.8	2.9_66.8	2.9_66.8			
C 32 3		74.7_274.7	74.7_274.7				
C 36 2		2.7_19.0	2.7_19.0	2.7_19.0			
C 36 3		22.1_206.4	22.1_206.4	22.1_206.4			
C 36 4		230.9_848.5	230.9_848.5				
C 41 2		2.7_44.8	2.7_44.8	2.7_44.8	2.7_31.4	2.7_31.4	2.7_31.4
C 41 3		28.5_209.1	28.5_209.1	28.5_209.1	28.5_102.3	28.5_102.3	28.5_102.3
C 41 4		239.9_855.5	239.9_855.5				
C 51 2		2.6_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4
C 51 3		21.8_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9			
C 61 2		3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0
C 61 3		26.8_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1			

28 MOMENT OF INERTIA

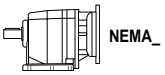
The following charts indicate moment of inertia values Jr [lb•ft^2] referred to the gear unit high speed shaft. A key to the symbols used follows:



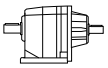
Values under this icon refer to compact gear units, without motor. To obtain the overall moment of inertia for the gearmotor just add the value of the inertia for the specific compact motor, given in the relevant rating chart.



Values under this symbol refer to gearboxes with IEC motor adaptor (IEC size...).



Values under this symbol refer to gearboxes with NEMA motor adaptor (NEMA size...).



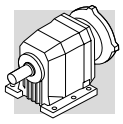
This symbol refers to gearbox values.



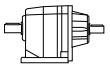
Values under this symbol refer to gear unit with servomotor input adapter.

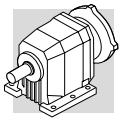
C 05

	i	**J** (•10^{-4}) [lb•ft^2] 
C 05_5.5	5.5	6.9
C 05_6.7	6.7	6.9
C 05_7.4	7.4	6.6
C 05_9.3	9.3	4.0
C 05_11.2	11.2	3.8
C 05_12.5	12.5	3.8
C 05_15.6	15.6	2.1
C 05_18.9	18.9	2.1
C 05_21.0	21.0	1.9
C 05_27.1	27.1	0.95
C 05_32.8	32.8	0.95
C 05_36.4	36.4	0.95
C 05_40.3	40.3	0.71
C 05_44.7	44.7	0.71

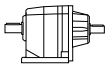


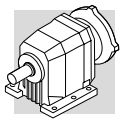
C 12

	i	J (•10^{-4}) [lb•ft^2]							
			IEC 						
			63	71	80	90	100	112	
C 12 2_2.8	2.8	10	45	45	78	76	107	107	31
C 12 2_3.2	3.2	8.1	43	43	76	74	104	104	28
C 12 2_3.7	3.7	6.9	43	40	74	74	104	104	28
C 12 2_4.3	4.3	5.0	40	40	74	71	102	102	26
C 12 2_4.9	4.9	4.5	40	40	71	71	102	102	26
C 12 2_5.6	5.6	3.6	38	38	71	69	100	100	24
C 12 2_6.2	6.2	2.8	38	38	71	69	100	100	24
C 12 2_7.6	7.6	7.8	43	43	76	74	104	104	28
C 12 2_8.8	8.8	7.6	43	43	76	74	104	104	28
C 12 2_10.1	10.1	5.5	40	40	74	71	102	102	26
C 12 2_11.9	11.9	4.0	38	38	71	71	100	100	26
C 12 2_13.4	13.4	3.8	38	38	71	69	100	100	26
C 12 2_15.4	15.4	2.8	38	38	71	69	100	100	24
C 12 2_17.2	17.2	2.4	38	38	69	69	100	100	24
C 12 2_18.4	18.4	1.9	38	36	69	69	100	100	23
C 12 2_20.6	20.6	1.9	36	36	69	69	100	100	23
C 12 2_23.2	23.2	1.7	36	36	69	69	97	97	23
C 12 2_25.4	25.4	1.4	36	36	69	66	97	97	23
C 12 2_29.5	29.5	1.2	36	36	69	66	97	97	23
C 12 2_32.8	32.8	0.95	36	36	69	66	97	97	22
C 12 2_37.0	37.0	0.71	36	36	69	66	97	97	22
C 12 2_42.3	42.3	0.71	36	36	69	66	97	97	22
C 12 2_47.6	47.6	0.47	36	36	69	66	97	97	22
C 12 2_55.2	55.2	0.47	36	36	—	—	—	—	22
C 12 2_66.2	66.2	0.24	36	36	—	—	—	—	22



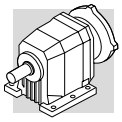
C 12

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
C 12 2_2.8	2.8	10	45	45	78	31
C 12 2_3.2	3.2	8.1	43	43	76	28
C 12 2_3.7	3.7	6.9	43	43	74	28
C 12 2_4.3	4.3	5.0	40	40	74	26
C 12 2_4.9	4.9	4.5	40	40	71	26
C 12 2_5.6	5.6	3.6	38	38	71	24
C 12 2_6.2	6.2	2.8	38	38	71	24
C 12 2_7.6	7.6	7.8	43	43	76	28
C 12 2_8.8	8.8	7.6	43	43	76	28
C 12 2_10.1	10.1	5.5	40	40	74	26
C 12 2_11.9	11.9	4.0	38	38	71	26
C 12 2_13.4	13.4	3.8	38	38	71	26
C 12 2_15.4	15.4	2.8	38	38	71	24
C 12 2_17.2	17.2	2.4	38	38	69	24
C 12 2_18.4	18.4	1.9	38	38	69	23
C 12 2_20.6	20.6	1.9	36	36	69	23
C 12 2_23.2	23.2	1.7	36	36	69	23
C 12 2_25.4	25.4	1.4	36	36	69	23
C 12 2_29.5	29.5	1.2	36	36	69	23
C 12 2_32.8	32.8	0.95	36	36	69	22
C 12 2_37.0	37.0	0.71	36	36	69	22
C 12 2_42.3	42.3	0.71	36	36	69	22
C 12 2_47.6	47.6	0.47	36	36	69	22
C 12 2_55.2	55.2	0.47	36	36	—	22
C 12 2_66.2	66.2	0.24	36	36	—	22

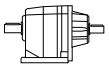


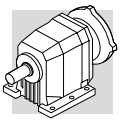
C 12

	i	J (•10^{-4}) [lb•ft^2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 12 2_2.8	2.8	17	23	17	28	78	88	78	90	76	100
C 12 2_3.2	3.2	14	21	15	26	76	85	76	88	74	97
C 12 2_3.7	3.7	13	19	14	24	74	83	74	85	74	97
C 12 2_4.3	4.3	11	18	12	22	71	83	74	85	71	95
C 12 2_4.9	4.9	11	17	11	22	71	81	71	83	71	95
C 12 2_5.6	5.6	10	16	10	21	71	81	71	83	69	93
C 12 2_6.2	6.2	9.3	15	10	20	69	81	71	83	69	93
C 12 2_7.6	7.6	14	20	15	26	76	85	76	88	74	97
C 12 2_8.8	8.8	14	20	14	24	74	85	76	88	74	97
C 12 2_10.1	10.1	12	18	12	23	74	83	74	85	71	95
C 12 2_11.9	11.9	10	17	11	21	71	81	71	83	71	95
C 12 2_13.4	13.4	10	16	11	20	71	81	71	83	69	93
C 12 2_15.4	15.4	9.3	15	9.7	20	69	81	71	83	69	93
C 12 2_17.2	17.2	8.8	15	9.3	20	69	81	69	81	69	93
C 12 2_18.4	18.4	8.3	14	8.8	19	69	78	69	81	69	93
C 12 2_20.6	20.6	8.3	14	8.8	19	69	78	69	81	69	93
C 12 2_23.2	23.2	8.1	14	8.5	19	69	78	69	81	69	93
C 12 2_25.4	25.4	7.8	14	8.3	19	69	78	69	81	66	90
C 12 2_29.5	29.5	7.6	14	8.1	19	69	78	69	81	66	90
C 12 2_32.8	32.8	8.1	14	7.8	18	69	78	69	81	66	90
C 12 2_37.0	37.0	7.1	13	7.6	18	69	78	69	81	66	90
C 12 2_42.3	42.3	7.1	13	7.6	18	69	78	69	81	66	90
C 12 2_47.6	47.6	6.9	13	7.4	18	66	78	69	81	66	90
C 12 2_55.2	55.2	6.9	13	7.4	18	66	78	—	—	—	—
C 12 2_66.2	66.2	6.6	13	7.1	18	66	78	—	—	—	—

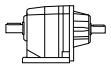


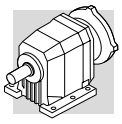
C 22

	i	J (•10-4) [lb•ft2]							
			IEC						
			63	71	80	90	100	112	
C 22 2_2.7	2.7	28	—	—	95	95	126	126	74
C 22 2_3.3	3.3	20	—	—	88	85	116	116	64
C 22 2_3.7	3.7	17	52	52	85	83	114	114	62
C 22 2_4.3	4.3	13	47	47	81	78	109	109	57
C 22 2_4.8	4.8	11	47	45	78	78	109	109	57
C 22 2_5.6	5.6	8.5	43	43	76	76	104	104	52
C 22 2_6.1	6.1	6.9	43	40	74	74	104	104	52
C 22 2_7.1	7.1	18	—	—	85	85	114	114	62
C 22 2_8.7	8.7	13	—	—	81	78	109	109	57
C 22 2_9.6	9.6	12	47	47	78	78	109	109	57
C 22 2_11.1	11.1	9.3	45	43	76	76	107	107	55
C 22 2_12.4	12.4	8.3	43	43	76	74	104	104	52
C 22 2_14.5	14.5	8.5	40	40	74	74	102	102	50
C 22 2_15.8	15.8	4.7	40	40	74	71	102	102	50
C 22 2_18.1	18.1	4.3	38	38	71	71	102	102	47
C 22 2_20.0	20.0	3.6	38	38	71	69	100	100	47
C 22 2_21.5	21.5	3.1	38	38	71	69	100	100	47
C 22 2_24.3	24.3	2.8	38	38	71	69	100	100	47
C 22 2_27.2	27.2	2.4	38	38	71	69	100	100	47
C 22 2_29.6	29.6	2.1	38	36	69	69	100	100	47
C 22 2_33.1	33.1	1.7	36	36	69	69	100	100	45
C 22 2_36.8	36.8	1.4	36	36	69	66	97	97	45
C 22 2_43.3	43.3	1.2	36	36	69	66	97	97	45
C 22 2_48.6	48.6	0.95	36	36	69	66	97	97	45
C 22 2_54.7	54.7	0.71	36	36	69	66	97	97	45
C 22 2_63.3	63.3	0.47	36	36	—	—	—	—	45
C 22 3_60.0	60.0	0.95	36	36	69	66	97	97	22
C 22 3_65.3	65.3	0.71	36	36	69	66	97	97	22
C 22 3_74.8	74.8	0.71	36	36	69	66	97	97	22
C 22 3_82.6	82.6	0.71	36	36	69	66	97	97	22
C 22 3_88.5	88.5	0.71	36	36	69	66	97	97	22
C 22 3_100.2	100.2	0.71	36	36	69	66	97	97	22
C 22 3_112.0	112.0	0.71	36	36	69	66	97	97	22
C 22 3_122.2	122.2	0.71	36	36	69	66	97	97	22
C 22 3_136.5	136.5	0.47	36	36	69	66	97	97	22
C 22 3_151.7	151.7	0.47	36	36	69	66	97	97	22
C 22 3_178.5	178.5	0.47	36	36	69	66	97	97	22
C 22 3_200.7	200.7	0.47	36	36	69	66	97	97	22
C 22 3_225.8	225.8	0.47	36	36	69	66	97	97	22
C 22 3_261.0	261.0	0.47	36	36	69	66	97	97	22



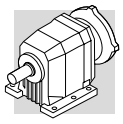
C 22

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
C 22 2_2.7	2.7	28	—	—	95	74
C 22 2_3.3	3.3	20	—	—	88	64
C 22 2_3.7	3.7	17	52	52	85	62
C 22 2_4.3	4.3	13	47	47	81	57
C 22 2_4.8	4.8	11	47	47	78	57
C 22 2_5.6	5.6	8.5	43	43	76	52
C 22 2_6.1	6.1	6.9	43	43	74	52
C 22 2_7.1	7.1	18	—	—	85	62
C 22 2_8.7	8.7	13	—	—	81	57
C 22 2_9.6	9.6	12	47	47	78	57
C 22 2_11.1	11.1	9.3	45	45	76	55
C 22 2_12.4	12.4	8.3	43	43	76	52
C 22 2_14.5	14.5	8.5	40	40	74	50
C 22 2_15.8	15.8	4.7	40	40	74	50
C 22 2_18.1	18.1	4.3	38	38	71	47
C 22 2_20.0	20.0	3.6	38	38	71	47
C 22 2_21.5	21.5	3.1	38	38	71	47
C 22 2_24.3	24.3	2.8	38	38	71	47
C 22 2_27.2	27.2	2.4	38	38	71	47
C 22 2_29.6	29.6	2.1	38	38	69	47
C 22 2_33.1	33.1	1.7	36	36	69	45
C 22 2_36.8	36.8	1.4	36	36	69	45
C 22 2_43.3	43.3	1.2	36	36	69	45
C 22 2_48.6	48.6	0.95	36	36	69	45
C 22 2_54.7	54.7	0.71	36	36	69	45
C 22 2_63.3	63.3	0.47	36	36	—	45
C 22 3_60.0	60.0	0.95	36	36	69	22
C 22 3_65.3	65.3	0.71	36	36	69	22
C 22 3_74.8	74.8	0.71	36	36	69	22
C 22 3_82.6	82.6	0.71	36	36	69	22
C 22 3_88.5	88.5	0.71	36	36	69	22
C 22 3_100.2	100.2	0.71	36	36	69	22
C 22 3_112.0	112.0	0.71	36	36	69	22
C 22 3_122.2	122.2	0.71	36	36	69	22
C 22 3_136.5	136.5	0.47	36	36	69	22
C 22 3_151.7	151.7	0.47	36	36	69	22
C 22 3_178.5	178.5	0.47	36	36	69	22
C 22 3_200.7	200.7	0.47	36	36	69	22
C 22 3_225.8	225.8	0.47	36	36	69	22
C 22 3_261.0	261.0	0.47	36	36	69	22



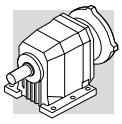
C 22

	i	J (•10-4) [lb•ft2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 22 2_2.7	2.7	—	—	—	—	—	—	95	107	95	119
C 22 2_3.3	3.3	—	—	—	—	—	—	88	100	85	109
C 22 2_3.7	3.7	23	31	24	33	83	95	85	97	83	107
C 22 2_4.3	4.3	20	26	20	31	81	90	81	93	78	102
C 22 2_4.8	4.8	18	24	18	28	78	88	78	90	78	102
C 22 2_5.6	5.6	15	21	15	26	76	85	76	88	76	100
C 22 2_6.1	6.1	13	19	14	24	74	83	74	85	74	97
C 22 2_7.1	7.1	—	—	—	—	—	—	85	97	85	109
C 22 2_8.7	8.7	—	—	—	—	—	—	81	93	78	102
C 22 2_9.6	9.6	18	24	19	28	78	90	78	90	78	102
C 22 2_11.1	11.1	16	22	16	26	76	85	76	88	76	100
C 22 2_12.4	12.4	15	21	15	26	76	85	76	88	74	97
C 22 2_14.5	14.5	15	21	15	26	76	85	74	85	74	97
C 22 2_15.8	15.8	11	17	12	22	71	83	74	85	71	95
C 22 2_18.1	18.1	11	17	11	22	71	81	71	83	71	95
C 22 2_20.0	20.0	10	16	10	21	71	81	71	83	69	93
C 22 2_21.5	21.5	9.5	16	10	20	71	81	71	83	69	93
C 22 2_24.3	24.3	9.3	15	9.7	20	69	81	71	83	69	93
C 22 2_27.2	27.2	8.8	15	9.3	20	69	81	71	83	69	93
C 22 2_29.6	29.6	8.5	15	9.0	19	69	78	69	81	69	93
C 22 2_33.1	33.1	8.1	14	8.5	19	69	78	69	81	69	93
C 22 2_36.8	36.8	7.8	14	8.3	19	69	78	69	81	66	90
C 22 2_43.3	43.3	7.6	14	8.1	19	69	78	69	81	66	90
C 22 2_48.6	48.6	7.4	14	7.8	18	69	78	69	81	66	90
C 22 2_54.7	54.7	7.1	13	7.6	18	69	78	69	81	66	90
C 22 2_63.3	63.3	6.9	13	7.4	18	66	78	—	—	—	—
C 22 3_60.0	60.0	7.4	14	7.8	18	69	78	69	81	66	90
C 22 3_65.3	65.3	7.1	13	7.6	18	69	78	69	81	66	90
C 22 3_74.8	74.8	7.1	13	7.6	18	69	78	69	81	66	90
C 22 3_82.6	82.6	7.1	13	7.6	18	69	78	69	81	66	90
C 22 3_88.5	88.5	7.1	13	7.6	18	69	78	69	81	66	90
C 22 3_100.2	100.2	7.1	13	7.6	18	69	78	69	81	66	90
C 22 3_112.0	112.0	7.1	13	7.6	18	69	78	69	81	66	90
C 22 3_122.2	122.2	7.1	13	7.6	18	69	78	69	81	66	90
C 22 3_136.5	136.5	6.9	13	7.4	18	66	78	69	81	66	90
C 22 3_151.7	151.7	6.9	13	7.4	18	66	78	69	81	66	90
C 22 3_178.5	178.5	6.9	13	7.4	18	66	78	69	81	66	90
C 22 3_200.7	200.7	6.9	13	7.4	18	66	78	69	81	66	90
C 22 3_225.8	225.8	6.9	13	7.4	18	66	78	69	81	66	90
C 22 3_261.0	261.0	6.9	13	7.4	18	66	78	69	81	66	90

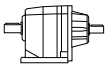


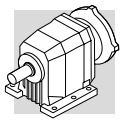
C 32

	i	J (•10-4) [lb•ft2]								
			IEC							
			63	71	80	90	100	112	132	
C 32 2_2.9	2.9	55	—	—	123	121	152	152	475	109
C 32 2_3.4	3.4	43	—	—	109	109	140	140	475	95
C 32 2_3.7	3.7	38	—	—	104	102	133	133	475	90
C 32 2_4.5	4.5	28	—	—	95	95	123	123	451	81
C 32 2_5.0	5.0	21	55	55	88	88	119	119	451	74
C 32 2_5.7	5.7	19	55	55	88	85	116	116	451	71
C 32 2_6.3	6.3	15	50	50	83	81	112	112	427	66
C 32 2_7.2	7.2	36	—	—	104	102	133	133	451	88
C 32 2_8.5	8.5	28	—	—	97	95	126	126	451	81
C 32 2_9.3	9.3	26	—	—	93	93	121	121	451	78
C 32 2_11.2	11.2	20	—	—	88	85	116	116	451	71
C 32 2_12.3	12.3	14	50	50	81	81	112	112	427	66
C 32 2_14.1	14.1	14	50	50	83	81	112	112	427	66
C 32 2_15.6	15.6	11	45	45	78	76	107	107	427	64
C 32 2_18.2	18.2	10	45	45	78	76	107	107	427	62
C 32 2_20.1	20.1	8.1	43	43	76	74	104	104	427	62
C 32 2_22.9	22.9	7.4	43	43	76	74	104	104	403	59
C 32 2_25.1	25.1	5.9	40	40	74	71	102	102	403	59
C 32 2_26.9	26.9	5.7	40	40	74	71	102	102	—	59
C 32 2_29.8	29.8	4.5	40	40	71	71	102	102	—	57
C 32 2_33.1	33.1	4.5	40	40	71	71	102	102	—	57
C 32 2_36.1	36.1	3.3	38	38	71	69	100	100	—	57
C 32 2_40.7	40.7	3.3	38	38	71	69	100	100	—	57
C 32 2_45.3	45.3	2.4	38	38	71	69	100	100	—	55
C 32 2_52.4	52.4	1.9	38	38	69	69	100	100	—	55
C 32 2_59.4	59.4	1.7	36	36	69	69	100	100	—	55
C 32 2_66.8	66.8	1.2	36	36	69	66	97	97	—	55
C 32 3_74.7	74.7	1.4	36	36	69	69	97	97	—	23
C 32 3_82.6	82.6	1.4	36	36	69	66	97	97	—	23
C 32 3_94.2	94.2	1.4	36	36	69	66	97	97	—	23
C 32 3_103.3	103.3	1.2	36	36	69	66	97	97	—	23
C 32 3_110.6	110.6	1.2	36	36	69	66	97	97	—	23
C 32 3_122.4	122.4	1.2	36	36	69	66	97	97	—	23
C 32 3_136.0	136.0	1.2	36	36	69	66	97	97	—	23
C 32 3_148.4	148.4	1.2	36	36	69	66	97	97	—	23
C 32 3_167.4	167.4	1.2	36	36	69	66	97	97	—	23
C 32 3_186.0	186.0	0.95	36	36	69	66	97	97	—	22
C 32 3_215.6	215.6	0.95	36	36	69	66	97	97	—	22
C 32 3_244.2	244.2	0.95	36	36	69	66	97	97	—	22
C 32 3_274.7	274.7	0.95	36	36	69	66	97	97	—	22



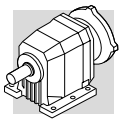
C 32

	i	J (•10-4) [lb•ft2]					
			NEMA				
			N56C	N140TC	N180TC	N210TC	
C 32 2_2.9	2.9	55	—	—	123	475	109
C 32 2_3.4	3.4	43	—	—	109	475	95
C 32 2_3.7	3.7	38	—	—	104	475	90
C 32 2_4.5	4.5	28	—	—	95	451	81
C 32 2_5.0	5.0	21	55	55	88	451	74
C 32 2_5.7	5.7	19	55	55	88	451	71
C 32 2_6.3	6.3	15	50	50	83	427	66
C 32 2_7.2	7.2	36	—	—	104	451	88
C 32 2_8.5	8.5	28	—	—	97	451	81
C 32 2_9.3	9.3	26	—	—	93	451	78
C 32 2_11.2	11.2	20	—	—	88	451	71
C 32 2_12.3	12.3	14	50	50	81	427	66
C 32 2_14.1	14.1	14	50	50	83	427	66
C 32 2_15.6	15.6	11	45	45	78	427	64
C 32 2_18.2	18.2	10	45	45	78	427	62
C 32 2_20.1	20.1	8.1	43	43	76	427	62
C 32 2_22.9	22.9	7.4	43	43	76	403	59
C 32 2_25.1	25.1	5.9	40	40	74	403	59
C 32 2_26.9	26.9	5.7	40	40	74	—	59
C 32 2_29.8	29.8	4.5	40	40	71	—	57
C 32 2_33.1	33.1	4.5	40	40	71	—	57
C 32 2_36.1	36.1	3.3	38	38	71	—	57
C 32 2_40.7	40.7	3.3	38	38	71	—	57
C 32 2_45.3	45.3	2.4	38	38	71	—	55
C 32 2_52.4	52.4	1.9	38	38	69	—	55
C 32 2_59.4	59.4	1.7	36	36	69	—	55
C 32 2_66.8	66.8	1.2	36	36	69	—	55
C 32 3_74.7	74.7	1.4	36	36	69	—	23
C 32 3_82.6	82.6	1.4	36	36	69	—	23
C 32 3_94.2	94.2	1.4	36	36	69	—	23
C 32 3_103.3	103.3	1.2	36	36	69	—	23
C 32 3_110.6	110.6	1.2	36	36	69	—	23
C 32 3_122.4	122.4	1.2	36	36	69	—	23
C 32 3_136.0	136.0	1.2	36	36	69	—	23
C 32 3_148.4	148.4	1.2	36	36	69	—	23
C 32 3_167.4	167.4	1.2	36	36	69	—	23
C 32 3_186.0	186.0	0.95	36	36	69	—	22
C 32 3_215.6	215.6	0.95	36	36	69	—	22
C 32 3_244.2	244.2	0.95	36	36	69	—	22
C 32 3_274.7	274.7	0.95	36	36	69	—	22



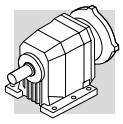
C 32

	i	J (•10-4) [lb•ft2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 32 2_2.9	2.9	—	—	—	—	—	—	123	135	121	145	121	145
C 32 2_3.4	3.4	—	—	—	—	—	—	109	121	109	133	109	133
C 32 2_3.7	3.7	—	—	—	—	—	—	104	116	102	126	102	126
C 32 2_4.5	4.5	—	—	—	—	—	—	95	107	95	119	95	119
C 32 2_5.0	5.0	26	33	28	38	88	97	88	100	88	112	88	112
C 32 2_5.7	5.7	26	33	26	36	85	97	88	100	85	109	85	109
C 32 2_6.3	6.3	21	28	22	33	83	93	83	95	81	104	81	104
C 32 2_7.2	7.2	—	—	—	—	—	—	104	116	102	126	102	126
C 32 2_8.5	8.5	—	—	—	—	—	—	97	109	95	119	95	119
C 32 2_9.3	9.3	—	—	—	—	—	—	93	104	93	116	93	116
C 32 2_11.2	11.2	—	—	—	—	—	—	88	100	85	109	85	109
C 32 2_12.3	12.3	21	26	21	31	81	93	81	93	81	104	81	104
C 32 2_14.1	14.1	21	26	21	31	81	93	83	95	81	104	81	104
C 32 2_15.6	15.6	17	23	18	28	78	88	78	90	76	100	76	100
C 32 2_18.2	18.2	16	23	17	26	76	88	78	90	76	100	76	100
C 32 2_20.1	20.1	14	21	15	26	76	85	76	88	74	97	74	97
C 32 2_22.9	22.9	14	20	14	24	74	85	76	88	74	97	74	97
C 32 2_25.1	25.1	12	19	13	23	74	83	74	85	71	95	71	95
C 32 2_26.9	26.9	12	18	13	23	74	83	74	85	71	95	71	95
C 32 2_29.8	29.8	11	17	11	22	71	81	71	83	71	95	71	95
C 32 2_33.1	33.1	11	17	11	22	71	81	71	83	71	95	71	95
C 32 2_36.1	36.1	9.7	16	10	21	71	81	71	83	69	93	69	93
C 32 2_40.7	40.7	9.7	16	10	21	71	81	71	83	69	93	69	93
C 32 2_45.3	45.3	8.8	15	9.3	20	69	81	71	83	69	93	69	93
C 32 2_52.4	52.4	8.3	14	8.8	19	69	78	69	81	69	93	69	93
C 32 2_59.4	59.4	8.1	14	8.5	19	69	78	69	81	69	93	69	93
C 32 2_66.8	66.8	7.6	14	8.1	19	69	78	69	81	66	90	66	90
C 32 3_74.7	74.7	7.8	14	8.3	19	69	78	69	81	69	93	—	—
C 32 3_82.6	82.6	7.8	14	8.3	19	69	78	69	81	66	90	—	—
C 32 3_94.2	94.2	7.8	14	8.3	19	69	78	69	81	66	90	—	—
C 32 3_103.3	103.3	7.6	14	8.1	19	69	78	69	81	66	90	—	—
C 32 3_110.6	110.6	7.6	14	8.1	19	69	78	69	81	66	90	—	—
C 32 3_122.4	122.4	7.6	14	8.1	19	69	78	69	81	66	90	—	—
C 32 3_136.0	136.0	7.6	14	8.1	19	69	78	69	81	66	90	—	—
C 32 3_148.4	148.4	7.6	14	8.1	19	69	78	69	81	66	90	—	—
C 32 3_167.4	167.4	7.6	14	8.1	19	69	78	69	81	66	90	—	—
C 32 3_186.0	186.0	7.4	14	7.8	18	69	78	69	81	66	90	—	—
C 32 3_215.6	215.6	7.4	14	7.8	18	69	78	69	81	66	90	—	—
C 32 3_244.2	244.2	7.4	14	7.8	18	69	78	69	81	66	90	—	—
C 32 3_274.7	274.7	7.4	14	7.8	18	69	78	69	81	66	90	—	—

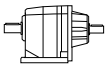


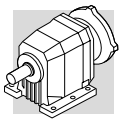
C 36

	i	J (•10-4) [lb•ft2]								
			IEC							
			63	71	80	90	100	112	132	
C 36 2_2.7	2.7	85	—	—	154	152	183	183	522	332
C 36 2_3.2	3.2	59	—	—	128	126	157	157	498	308
C 36 2_3.5	3.5	57	—	—	126	123	154	154	475	308
C 36 2_4.2	4.2	38	—	—	107	104	135	135	475	285
C 36 2_4.6	4.6	36	71	71	104	102	133	133	451	285
C 36 2_5.3	5.3	26	62	62	95	93	123	123	451	285
C 36 2_5.8	5.8	23	59	59	93	90	121	121	451	285
C 36 2_6.8	6.8	52	—	—	121	119	150	150	475	308
C 36 2_8.0	8.0	38	—	—	104	102	133	133	475	285
C 36 2_8.8	8.8	36	—	—	104	102	133	133	451	285
C 36 2_10.6	10.6	26	—	—	93	90	121	121	451	285
C 36 2_11.7	11.7	24	59	59	93	90	121	121	451	285
C 36 2_13.3	13.3	16	52	52	85	83	114	114	451	261
C 36 2_14.8	14.8	16	52	52	85	83	114	114	451	261
C 36 2_17.2	17.2	11	47	47	81	78	109	109	427	261
C 36 2_19.0	19.0	11	47	47	81	78	109	109	427	261
C 36 3_22.1	22.1	43	—	—	112	109	140	140	451	285
C 36 3_26.2	26.2	31	—	—	100	97	128	128	451	285
C 36 3_28.7	28.7	31	—	—	100	97	128	128	451	285
C 36 3_34.6	34.6	21	—	—	90	88	119	119	451	261
C 36 3_38.1	38.1	21	57	57	90	88	119	119	451	261
C 36 3_43.5	43.5	14	50	50	83	81	112	112	451	261
C 36 3_48.2	48.2	14	50	50	83	81	112	112	451	261
C 36 3_56.2	56.2	9.7	45	45	78	76	107	107	427	261
C 36 3_62.0	62.0	10	45	45	78	76	107	107	427	261
C 36 3_70.8	70.8	7.1	43	43	76	74	104	104	427	261
C 36 3_77.6	77.6	6.6	43	43	76	74	104	104	403	261
C 36 3_83.1	83.1	5.7	40	40	74	71	102	102	—	261
C 36 3_91.9	91.9	5.0	40	40	74	71	102	102	—	261
C 36 3_102.2	102.2	4.5	40	40	74	71	102	102	—	261
C 36 3_111.5	111.5	3.8	40	40	74	71	102	102	—	261
C 36 3_125.8	125.8	3.3	38	38	71	69	100	100	—	261
C 36 3_139.8	139.8	2.6	38	38	71	69	100	100	—	261
C 36 3_162.0	162.0	2.1	38	38	71	69	100	100	—	261
C 36 3_183.5	183.5	1.7	38	38	71	69	100	100	—	261
C 36 3_206.4	206.4	1.4	38	38	71	69	100	100	—	261
C 36 4_230.9	230.9	1.9	—	—	—	—	—	—	—	—
C 36 4_255.0	255.0	1.9	38	38	71	69	100	100	—	21
C 36 4_290.9	290.9	1.7	38	38	71	69	100	100	—	21
C 36 4_318.9	318.9	1.7	38	38	71	69	100	100	—	21
C 36 4_341.7	341.7	1.7	38	38	71	69	100	100	—	21
C 36 4_377.9	377.9	1.7	38	38	71	69	100	100	—	21
C 36 4_420.2	420.2	1.4	38	38	71	69	100	100	—	21
C 36 4_458.4	458.4	1.4	38	38	71	69	100	100	—	21
C 36 4_517.2	517.2	1.4	38	38	71	69	100	100	—	21
C 36 4_574.7	574.7	1.4	38	38	71	69	100	100	—	21
C 36 4_665.9	665.9	1.4	38	38	71	69	100	100	—	21
C 36 4_754.2	754.2	1.4	38	38	71	69	100	100	—	21
C 36 4_848.5	848.5	1.4	38	38	71	69	100	100	—	21



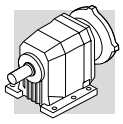
C 36

	i	J (•10-4) [lb•ft2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
C 36 2_2.7	2.7	85	—	—	154	522	332
C 36 2_3.2	3.2	59	—	—	128	498	308
C 36 2_3.5	3.5	57	—	—	126	475	308
C 36 2_4.2	4.2	38	—	—	107	475	285
C 36 2_4.6	4.6	36	71	71	104	451	285
C 36 2_5.3	5.3	26	62	62	95	451	285
C 36 2_5.8	5.8	23	59	59	93	451	285
C 36 2_6.8	6.8	52	—	—	121	475	308
C 36 2_8.0	8.0	38	—	—	104	475	285
C 36 2_8.8	8.8	36	—	—	104	451	285
C 36 2_10.6	10.6	26	—	—	93	451	285
C 36 2_11.7	11.7	24	59	59	93	451	285
C 36 2_13.3	13.3	16	52	52	85	451	261
C 36 2_14.8	14.8	16	52	52	85	451	261
C 36 2_17.2	17.2	11	47	47	81	427	261
C 36 2_19.0	19.0	11	47	47	81	427	261
C 36 3_22.1	22.1	43	—	—	112	451	285
C 36 3_26.2	26.2	31	—	—	100	451	285
C 36 3_28.7	28.7	31	—	—	100	451	285
C 36 3_34.6	34.6	21	—	—	90	451	261
C 36 3_38.1	38.1	21	57	57	90	451	261
C 36 3_43.5	43.5	14	50	50	83	451	261
C 36 3_48.2	48.2	14	50	50	83	451	261
C 36 3_56.2	56.2	9.7	45	45	78	427	261
C 36 3_62.0	62.0	10	45	45	78	427	261
C 36 3_70.8	70.8	7.1	43	43	76	427	261
C 36 3_77.6	77.6	6.6	43	43	76	403	261
C 36 3_83.1	83.1	5.7	40	40	74	—	261
C 36 3_91.9	91.9	5.0	40	40	74	—	261
C 36 3_102.2	102.2	4.5	40	40	74	—	261
C 36 3_111.5	111.5	3.8	40	40	74	—	261
C 36 3_125.8	125.8	3.3	38	38	71	—	261
C 36 3_139.8	139.8	2.6	38	38	71	—	261
C 36 3_162.0	162.0	2.1	38	38	71	—	261
C 36 3_183.5	183.5	1.7	38	38	71	—	261
C 36 3_206.4	206.4	1.4	38	38	71	—	261
C 36 4_230.9	230.9	1.9	—	—	—	—	—
C 36 4_255.0	255.0	1.9	38	38	71	—	21
C 36 4_290.9	290.9	1.7	38	38	71	—	21
C 36 4_318.9	318.9	1.7	38	38	71	—	21
C 36 4_341.7	341.7	1.7	38	38	71	—	21
C 36 4_377.9	377.9	1.7	38	38	71	—	21
C 36 4_420.2	420.2	1.4	38	38	71	—	21
C 36 4_458.4	458.4	1.4	38	38	71	—	21
C 36 4_517.2	517.2	1.4	38	38	71	—	21
C 36 4_574.7	574.7	1.4	38	38	71	—	21
C 36 4_665.9	665.9	1.4	38	38	71	—	21
C 36 4_754.2	754.2	1.4	38	38	71	—	21
C 36 4_848.5	848.5	1.4	38	38	71	—	21

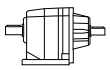


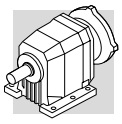
C 36

	i	J (•10-4) [lb•ft2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 36 2_2.7	2.7	—	—	—	—	—	—	154	166	152	176	152	176
C 36 2_3.2	3.2	—	—	—	—	—	—	128	140	126	150	126	150
C 36 2_3.5	3.5	—	—	—	—	—	—	126	138	123	147	123	147
C 36 2_4.2	4.2	—	—	—	—	—	—	107	119	104	128	104	128
C 36 2_4.6	4.6	43	47	43	52	102	112	104	116	102	126	102	126
C 36 2_5.3	5.3	33	38	33	43	93	104	95	107	93	116	93	116
C 36 2_5.8	5.8	31	36	31	40	90	100	93	104	90	114	90	114
C 36 2_6.8	6.8	—	—	—	—	—	—	121	133	119	142	119	142
C 36 2_8.0	8.0	—	—	—	—	—	—	104	116	102	126	102	126
C 36 2_8.8	8.8	—	—	—	—	—	—	104	116	102	126	102	126
C 36 2_10.6	10.6	—	—	—	—	—	—	93	104	90	114	90	114
C 36 2_11.7	11.7	31	36	31	40	90	102	93	104	90	114	90	114
C 36 2_13.3	13.3	23	28	23	33	83	93	85	97	83	107	83	107
C 36 2_14.8	14.8	23	28	23	33	83	93	85	97	83	107	83	107
C 36 2_17.2	17.2	18	24	18	28	78	88	81	93	78	102	78	102
C 36 2_19.0	19.0	18	24	18	28	78	88	81	93	78	102	78	102
C 36 3_22.1	22.1	—	—	—	—	—	—	112	123	109	133	109	133
C 36 3_26.2	26.2	—	—	—	—	—	—	100	112	97	121	97	121
C 36 3_28.7	28.7	—	—	—	—	—	—	100	112	97	121	97	121
C 36 3_34.6	34.6	—	—	—	—	—	—	90	102	88	112	88	112
C 36 3_38.1	38.1	28	33	28	38	88	100	90	102	88	112	88	112
C 36 3_43.5	43.5	20	26	21	31	81	90	83	95	81	104	81	104
C 36 3_48.2	48.2	21	26	21	31	81	93	83	95	81	104	81	104
C 36 3_56.2	56.2	16	22	17	26	76	88	78	90	76	100	76	100
C 36 3_62.0	62.0	16	23	17	26	76	88	78	90	76	100	76	100
C 36 3_70.8	70.8	14	20	14	24	74	85	76	88	74	97	74	97
C 36 3_77.6	77.6	13	19	14	24	74	83	76	88	74	97	74	97
C 36 3_83.1	83.1	12	18	13	23	74	83	74	85	71	95	71	95
C 36 3_91.9	91.9	11	18	12	22	71	83	74	85	71	95	71	95
C 36 3_102.2	102.2	11	17	11	22	71	81	74	85	71	95	71	95
C 36 3_111.5	111.5	10	16	11	21	71	81	74	85	71	95	71	95
C 36 3_125.8	125.8	9.7	16	10	21	71	81	71	83	69	93	69	93
C 36 3_139.8	139.8	9.0	15	9.5	20	69	81	71	83	69	93	69	93
C 36 3_162.0	162.0	8.5	15	9.0	19	69	78	71	83	69	93	69	93
C 36 3_183.5	183.5	8.1	14	8.5	19	69	78	71	83	69	93	69	93
C 36 3_206.4	206.4	7.8	14	8.3	19	69	78	71	83	69	93	69	93
C 36 4_230.9	230.9	8.3	14	8.8	19	69	78	71	83	69	93	—	—
C 36 4_255.0	255.0	8.3	14	8.8	19	69	78	71	83	69	93	—	—
C 36 4_290.9	290.9	8.1	14	8.5	19	69	78	71	83	69	93	—	—
C 36 4_318.9	318.9	8.1	14	8.5	19	69	78	71	83	69	93	—	—
C 36 4_341.7	341.7	8.1	14	8.5	19	69	78	71	83	69	93	—	—
C 36 4_377.9	377.9	8.1	14	8.5	19	69	78	71	83	69	93	—	—
C 36 4_420.2	420.2	7.8	14	8.3	19	69	78	71	83	69	93	—	—
C 36 4_458.4	458.4	7.8	14	8.3	19	69	78	71	83	69	93	—	—
C 36 4_517.2	517.2	7.8	14	8.3	19	69	78	71	83	69	93	—	—
C 36 4_574.7	574.7	7.8	14	8.3	19	69	78	71	83	69	93	—	—
C 36 4_665.9	665.9	7.8	14	8.3	19	69	78	71	83	69	93	—	—
C 36 4_754.2	754.2	7.8	14	8.3	19	69	78	71	83	69	93	—	—
C 36 4_848.5	848.5	7.8	14	8.3	19	69	78	71	83	69	93	—	—

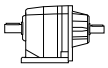


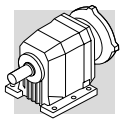
C 41

	i	J (•10-4) [lb•ft2]								
			IEC							
			63	71	80	90	100	112	132	
C 41 2_2.7	2.7	237	—	—	308	308	332	332	688	498
C 41 2_3.6	3.6	142	—	—	211	209	237	237	593	403
C 41 2_4.7	4.7	88	—	—	157	154	185	185	546	332
C 41 2_6.0	6.0	59	—	—	128	126	157	157	498	308
C 41 2_6.4	6.4	102	—	—	171	168	199	199	546	356
C 41 2_7.1	7.1	97	—	—	166	164	195	195	546	356
C 41 2_8.6	8.6	69	—	—	138	135	166	166	522	308
C 41 2_9.6	9.6	66	—	—	135	133	164	164	522	308
C 41 2_11.2	11.2	43	—	—	112	109	140	140	498	285
C 41 2_12.4	12.4	43	—	—	112	109	140	140	498	285
C 41 2_14.2	14.2	33	69	69	102	100	131	131	475	285
C 41 2_15.8	15.8	31	66	66	100	97	128	128	475	285
C 41 2_17.8	17.8	24	59	59	93	90	121	121	475	285
C 41 2_19.8	19.8	23	59	59	93	90	121	121	475	285
C 41 2_22.6	22.6	14	50	50	83	81	112	112	475	261
C 41 2_25.0	25.0	14	50	50	83	81	112	112	475	261
C 41 2_28.3	28.3	10	45	45	78	76	107	107	451	261
C 41 2_31.4	31.4	10	45	45	78	76	107	107	451	261
C 41 2_33.4	33.4	8.1	43	43	76	74	104	104	—	261
C 41 2_37.1	37.1	7.8	43	43	76	74	104	104	—	261
C 41 2_44.8	44.8	6.4	43	43	76	74	104	104	—	261
C 41 3_28.5	28.5	59	—	—	128	126	157	157	498	308
C 41 3_31.2	31.2	59	—	—	128	126	157	157	498	308
C 41 3_36.8	36.8	38	—	—	107	104	135	135	498	285
C 41 3_40.3	40.3	38	—	—	107	104	135	135	498	285
C 41 3_47.0	47.0	28	64	64	97	95	126	126	475	285
C 41 3_51.5	51.5	28	64	64	97	95	126	126	475	285
C 41 3_58.7	58.7	21	57	57	90	88	119	119	475	261
C 41 3_64.3	64.3	21	57	57	90	88	119	119	475	261
C 41 3_74.4	74.4	14	50	50	83	81	112	112	475	261
C 41 3_81.5	81.5	14	50	50	83	81	112	112	475	261
C 41 3_93.3	93.9	9.5	45	45	78	76	107	107	451	261
C 41 3_102.3	102.3	9.5	45	45	78	76	107	107	451	261
C 41 3_110.1	110.1	7.1	43	43	76	74	104	104	—	261
C 41 3_120.6	120.6	7.1	43	43	76	74	104	104	—	261
C 41 3_132.9	132.9	7.1	43	43	76	74	104	104	—	261
C 41 3_145.6	145.6	7.1	43	43	76	74	104	104	—	261
C 41 3_164.1	164.1	4.7	40	40	74	71	102	102	—	261
C 41 3_179.9	179.9	4.7	40	40	74	71	102	102	—	261
C 41 3_190.8	190.8	2.4	38	38	71	69	100	100	—	261
C 41 3_209.1	209.1	2.4	38	38	71	69	100	100	—	261
C 41 4_239.9	239.9	3.6	40	40	74	71	102	102	—	50
C 41 4_263.0	263.0	3.6	40	40	74	71	102	102	—	50
C 41 4_304.2	304.2	3.1	38	38	71	69	100	100	—	47
C 41 4_333.4	333.4	3.1	38	38	71	69	100	100	—	47
C 41 4_381.8	381.8	2.8	38	38	71	69	100	100	—	47
C 41 4_418.5	418.5	2.8	38	38	71	69	100	100	—	47
C 41 4_450.2	450.2	2.8	38	38	71	69	100	100	—	47
C 41 4_493.5	493.5	2.8	38	38	71	69	100	100	—	47
C 41 4_543.5	543.5	2.8	38	38	71	69	100	100	—	47
C 41 4_595.8	595.8	2.8	38	38	71	69	100	100	—	47
C 41 4_671.3	671.3	2.4	38	38	71	69	100	100	—	47
C 41 4_735.9	735.9	2.4	38	38	71	69	100	100	—	47
C 41 4_780.4	780.4	2.4	38	38	71	69	100	100	—	47
C 41 4_855.5	855.5	2.4	38	38	71	69	100	100	—	47



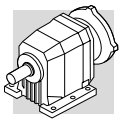
C 41

	i	J (•10-4) [lb•ft2]					
			NEMA				
			N56C	N140TC	N180TC	N210TC	
C 41 2_2.7	2.7	237	—	—	308	688	498
C 41 2_3.6	3.6	142	—	—	211	593	403
C 41 2_4.7	4.7	88	—	—	157	546	332
C 41 2_6.0	6.0	59	—	—	128	498	308
C 41 2_6.4	6.4	102	—	—	171	546	356
C 41 2_7.1	7.1	97	—	—	166	546	356
C 41 2_8.6	8.6	69	—	—	138	522	308
C 41 2_9.6	9.6	66	—	—	135	522	308
C 41 2_11.2	11.2	43	—	—	112	498	285
C 41 2_12.4	12.4	43	—	—	112	498	285
C 41 2_14.2	14.2	33	69	69	102	475	285
C 41 2_15.8	15.8	31	66	66	100	475	285
C 41 2_17.8	17.8	24	59	59	93	475	285
C 41 2_19.8	19.8	23	59	59	93	475	285
C 41 2_22.6	22.6	14	50	50	83	475	261
C 41 2_25.0	25.0	14	50	50	83	475	261
C 41 2_28.3	28.3	10	45	45	78	451	261
C 41 2_31.4	31.4	10	45	45	78	451	261
C 41 2_33.4	33.4	8.1	43	43	76	—	261
C 41 2_37.1	37.1	7.8	43	43	76	—	261
C 41 2_44.8	44.8	6.4	43	43	76	—	261
C 41 3_28.5	28.5	59	—	—	128	498	308
C 41 3_31.2	31.2	59	—	—	128	498	308
C 41 3_36.8	36.8	38	—	—	107	498	285
C 41 3_40.3	40.3	38	—	—	107	498	285
C 41 3_47.0	47.0	28	64	64	97	475	285
C 41 3_51.5	51.5	28	64	64	97	475	285
C 41 3_58.7	58.7	21	57	57	90	475	261
C 41 3_64.3	64.3	21	57	57	90	475	261
C 41 3_74.4	74.4	14	50	50	83	475	261
C 41 3_81.5	81.5	14	50	50	83	475	261
C 41 3_93.3	93.3	9.5	45	45	78	451	261
C 41 3_102.3	102.3	9.5	45	45	78	451	261
C 41 3_110.1	110.1	7.1	43	43	76	—	261
C 41 3_120.6	120.6	7.1	43	43	76	—	261
C 41 3_132.9	132.9	7.1	43	43	76	—	261
C 41 3_145.6	145.6	7.1	43	43	76	—	261
C 41 3_164.1	164.1	4.7	40	40	74	—	261
C 41 3_179.9	179.9	4.7	40	40	74	—	261
C 41 3_190.8	190.8	2.4	38	38	71	—	261
C 41 3_209.1	209.1	2.4	38	38	71	—	261
C 41 4_239.9	239.9	3.6	40	40	74	—	50
C 41 4_263.0	263.0	3.6	40	40	74	—	50
C 41 4_304.2	304.2	3.1	38	38	71	—	47
C 41 4_333.4	333.4	3.1	38	38	71	—	47
C 41 4_381.8	381.8	2.8	38	38	71	—	47
C 41 4_418.5	418.5	2.8	38	38	71	—	47
C 41 4_450.2	450.2	2.8	38	38	71	—	47
C 41 4_493.5	493.5	2.8	38	38	71	—	47
C 41 4_543.5	543.5	2.8	38	38	71	—	47
C 41 4_595.8	595.8	2.8	38	38	71	—	47
C 41 4_671.3	671.3	2.4	38	38	71	—	47
C 41 4_735.9	735.9	2.4	38	38	71	—	47
C 41 4_780.4	780.4	2.4	38	38	71	—	47
C 41 4_855.5	855.5	2.4	38	38	71	—	47



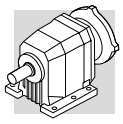
C 41

	i	J (•10-4) [lb•ft2]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 41 2_2.7	2.7	—	—	—	—	—	—	—	—	308	332	308	332	308	332	641	688	688	807
C 41 2_3.6	3.6	—	—	—	—	—	—	—	—	211	223	209	233	209	233	546	593	593	712
C 41 2_4.7	4.7	—	—	—	—	—	—	—	—	157	168	154	178	154	178	498	546	546	664
C 41 2_6.0	6.0	—	—	—	—	126	138	126	138	128	140	126	150	126	150	451	522	498	617
C 41 2_6.4	6.4	—	—	—	—	—	—	—	—	171	183	168	192	168	192	498	570	546	664
C 41 2_7.1	7.1	—	—	—	—	—	—	—	—	166	178	164	187	164	187	498	570	546	664
C 41 2_8.6	8.6	—	—	—	—	—	—	—	—	138	150	135	159	135	159	475	522	522	641
C 41 2_9.6	9.6	—	—	—	—	—	—	—	—	135	147	133	157	133	157	475	522	522	641
C 41 2_11.2	11.2	—	—	—	—	—	—	—	—	112	123	109	133	109	133	451	498	498	617
C 41 2_12.4	12.4	—	—	—	—	—	—	—	—	112	123	109	133	109	133	451	498	498	617
C 41 2_14.2	14.2	—	—	—	—	100	112	100	112	102	114	100	123	100	123	427	498	475	593
C 41 2_15.8	15.8	—	—	—	—	97	109	97	109	100	112	97	121	97	121	427	498	475	593
C 41 2_17.8	17.8	—	—	—	—	90	126	90	126	93	104	90	114	90	114	427	475	475	593
C 41 2_19.8	19.8	—	—	—	—	90	100	90	100	93	104	90	114	90	114	427	475	475	593
C 41 2_22.6	22.6	—	—	—	—	81	93	81	93	83	95	81	104	81	104	427	475	475	593
C 41 2_25.0	25.0	—	—	—	—	81	93	81	93	83	95	81	104	81	104	427	475	475	593
C 41 2_28.3	28.3	—	—	—	—	78	88	78	88	78	90	76	100	76	100	403	475	451	570
C 41 2_31.4	31.4	—	—	—	—	78	88	78	88	78	90	76	100	76	100	403	475	451	570
C 41 2_33.4	33.4	—	—	—	—	76	85	76	85	76	88	74	97	74	97	—	—	—	—
C 41 2_37.1	37.1	—	—	—	—	76	85	76	85	76	88	74	97	74	97	—	—	—	—
C 41 2_44.8	44.8	—	—	—	—	74	83	74	83	76	88	74	97	74	97	—	—	—	—
C 41 3_28.5	28.5	—	—	—	—	—	—	—	—	128	140	126	150	126	150	451	522	498	617
C 41 3_31.2	31.2	—	—	—	—	—	—	—	—	128	140	126	150	126	150	451	522	498	617
C 41 3_36.8	36.8	—	—	—	—	—	—	—	—	107	119	104	128	104	128	451	498	498	617
C 41 3_40.3	40.3	—	—	—	—	—	—	—	—	107	119	104	128	104	128	451	498	498	617
C 41 3_47.0	47.0	—	—	—	—	95	107	95	107	97	109	95	119	95	119	427	498	475	593
C 41 3_51.5	51.5	—	—	—	—	95	107	95	107	97	109	95	119	95	119	427	498	475	593
C 41 3_58.7	58.7	—	—	—	—	88	100	88	100	90	102	88	112	88	112	427	475	475	593
C 41 3_64.3	64.3	—	—	—	—	88	100	88	100	90	102	88	112	88	112	427	475	475	593
C 41 3_74.4	74.4	—	—	—	—	81	93	81	93	83	95	81	104	81	104	427	475	475	593
C 41 3_81.5	81.5	—	—	—	—	81	93	81	93	83	95	81	104	81	104	427	475	475	593
C 41 3_93.3	93.3	—	—	—	—	76	88	76	88	78	90	76	100	76	100	403	475	451	570
C 41 3_102.3	102.3	—	—	—	—	76	88	76	88	78	90	76	100	76	100	403	475	451	570
C 41 3_110.1	110.1	—	—	—	—	74	85	74	85	76	88	74	97	74	97	—	—	—	—
C 41 3_120.6	120.6	—	—	—	—	74	85	74	85	76	88	74	97	74	97	—	—	—	—
C 41 3_132.9	132.9	—	—	—	—	74	85	74	85	76	88	74	97	74	97	—	—	—	—
C 41 3_145.6	145.6	—	—	—	—	74	85	74	85	76	88	74	97	74	97	—	—	—	—
C 41 3_164.1	164.1	—	—	—	—	71	83	71	83	74	85	71	95	71	95	—	—	—	—
C 41 3_179.9	179.9	—	—	—	—	71	83	71	83	74	85	71	95	71	95	—	—	—	—
C 41 3_190.8	190.8	—	—	—	—	69	81	69	81	71	83	69	93	69	93	—	—	—	—
C 41 3_209.1	209.1	—	—	—	—	69	81	69	81	71	83	69	93	69	93	—	—	—	—
C 41 4_239.9	239.9	10	16	10	21	—	—	71	81	74	85	71	95	—	—	—	—	—	—
C 41 4_263.0	263.0	10	16	10	21	—	—	71	81	74	85	71	95	—	—	—	—	—	—
C 41 4_304.2	304.2	9.5	16	10	20	—	—	71	81	71	83	69	93	—	—	—	—	—	—
C 41 4_333.4	333.4	9.5	16	10	20	—	—	71	81	71	83	69	93	—	—	—	—	—	—
C 41 4_381.8	381.8	9.3	15	9.7	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_418.5	418.5	9.3	15	9.7	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_450.2	450.2	9.3	15	9.7	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_493.5	493.5	9.3	15	9.7	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_543.5	543.5	9.3	15	9.7	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_595.8	595.8	9.3	15	9.7	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_671.3	671.3	8.8	15	9.3	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_735.9	735.9	8.8	15	9.3	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_780.4	780.4	8.8	15	9.3	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—
C 41 4_855.5	855.5	8.8	15	9.3	20	—	—	69	81	71	83	69	93	—	—	—	—	—	—

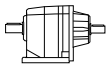


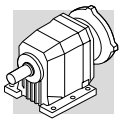
C 51

	i	J (•10-4) [lb•ft2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
C 51 2_2.6	2.6	356	—	—	403	403	451	451	783	1875	1804	593
C 51 2_3.3	3.3	237	—	—	308	308	332	332	688	1780	1709	498
C 51 2_4.5	4.5	150	—	—	218	216	237	237	593	1685	1614	403
C 51 2_5.6	5.6	97	—	—	166	164	195	195	546	1637	1566	356
C 51 2_7.0	7.0	192	—	—	261	261	285	285	641	1732	1661	451
C 51 2_7.8	7.8	185	—	—	261	261	285	285	641	1732	1661	427
C 51 2_8.8	8.8	142	—	—	211	209	237	237	593	1685	1614	403
C 51 2_9.8	9.8	138	—	—	206	204	235	235	593	1685	1614	380
C 51 2_11.8	11.8	97	—	—	166	164	195	195	546	1637	1566	356
C 51 2_13.1	13.1	95	—	—	164	161	192	192	546	1637	1566	356
C 51 2_15.0	15.0	64	—	—	133	131	161	161	522	1614	1542	308
C 51 2_16.6	16.6	62	—	—	131	128	159	159	522	1614	1542	308
C 51 2_18.9	18.9	47	83	83	116	114	145	145	498	1590	1519	308
C 51 2_21.0	21.0	45	81	81	114	112	142	142	498	1590	1519	285
C 51 2_23.4	23.4	36	71	71	104	102	133	133	475	1566	1495	285
C 51 2_25.9	25.9	33	69	69	102	100	131	131	475	1566	1495	285
C 51 2_29.8	29.8	21	57	57	90	88	119	119	475	1566	1495	261
C 51 2_33.0	33.0	21	57	57	90	88	119	119	475	1566	1495	261
C 51 2_36.4	36.4	17	52	52	85	83	114	114	475	1566	1495	261
C 51 2_40.4	40.4	17	52	52	85	83	114	114	475	1566	1495	261
C 51 2_43.1	43.1	12	47	47	81	78	109	109	—	—	—	261
C 51 2_47.8	47.8	12	47	47	81	78	109	109	—	—	—	261
C 51 2_51.4	51.4	9.5	45	45	78	76	107	107	—	—	—	261
C 51 2_57.0	57.0	9.5	45	45	78	76	107	107	—	—	—	261
C 51 3_21.8	21.8	161	—	—	230	228	261	261	617	1709	1637	403
C 51 3_23.9	23.9	161	—	—	230	228	261	261	617	1709	1637	403
C 51 3_27.4	27.4	123	—	—	192	190	221	221	570	1661	1590	380
C 51 3_30.1	30.1	123	—	—	192	190	221	221	570	1661	1590	380
C 51 3_37.0	37.0	85	—	—	154	152	183	183	546	1637	1566	332
C 51 3_40.5	40.5	85	—	—	154	152	183	183	546	1637	1566	332
C 51 3_46.7	46.7	57	—	—	126	123	154	154	498	1590	1519	308
C 51 3_51.2	51.2	57	—	—	126	123	154	154	498	1590	1519	308
C 51 3_59.0	59.0	43	78	78	112	109	140	140	498	1590	1519	285
C 51 3_64.6	64.6	43	78	78	112	109	140	140	498	1590	1519	285
C 51 3_72.9	72.9	31	66	66	100	97	128	128	475	1566	1495	285
C 51 3_79.9	79.9	31	66	66	100	97	128	128	475	1566	1495	285
C 51 3_93.0	93.0	19	55	55	88	85	116	116	475	1566	1495	261
C 51 3_101.8	101.8	19	55	55	88	85	116	116	475	1566	1495	261
C 51 3_113.6	113.6	14	50	50	83	81	112	112	475	1566	1495	261
C 51 3_124.4	124.4	14	50	50	83	81	112	112	475	1566	1495	261
C 51 3_134.6	134.6	12	47	47	81	78	109	109	—	—	—	261
C 51 3_147.4	147.4	12	47	47	81	78	109	109	—	—	—	261
C 51 3_160.5	160.5	9.5	45	45	78	76	107	107	—	—	—	261
C 51 3_175.8	175.8	9.5	45	45	78	76	107	107	—	—	—	261
C 51 3_197.9	197.9	7.1	43	43	76	74	104	104	—	—	—	261
C 51 3_216.7	216.7	7.1	43	43	76	74	104	104	—	—	—	261
C 51 4_240.9	240.9	7.1	43	43	76	74	104	104	—	—	—	28
C 51 4_263.8	263.8	7.1	43	43	76	74	104	104	—	—	—	28
C 51 4_297.8	297.8	7.1	43	43	76	74	104	104	—	—	—	28
C 51 4_326.1	326.1	7.1	43	43	76	74	104	104	—	—	—	28
C 51 4_379.6	379.6	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_415.7	415.7	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_463.9	463.9	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_508.0	508.0	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_549.7	549.7	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_602.0	602.0	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_655.4	655.4	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_717.7	717.7	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_808.0	808.0	4.7	40	40	74	71	102	102	—	—	—	26
C 51 4_884.9	884.9	4.7	40	40	74	71	102	102	—	—	—	26



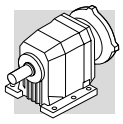
C 51

	i	J (•10-4) [lb•ft2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
C 51 2_2.6	2.6	356	—	—	403	783	1875	1804	593
C 51 2_3.3	3.3	237	—	—	308	688	1780	1709	498
C 51 2_4.5	4.5	150	—	—	218	593	1685	1614	403
C 51 2_5.6	5.6	97	—	—	166	546	1637	1566	356
C 51 2_7.0	7.0	192	—	—	261	641	1732	1661	451
C 51 2_7.8	7.8	185	—	—	261	641	1732	1661	427
C 51 2_8.8	8.8	142	—	—	211	593	1685	1614	403
C 51 2_9.8	9.8	138	—	—	206	593	1685	1614	380
C 51 2_11.8	11.8	97	—	—	166	546	1637	1566	356
C 51 2_13.1	13.1	95	—	—	164	546	1637	1566	356
C 51 2_15.0	15.0	64	—	—	133	522	1614	1542	308
C 51 2_16.6	16.6	62	—	—	131	522	1614	1542	308
C 51 2_18.9	18.9	47	83	83	116	498	1590	1519	308
C 51 2_21.0	21.0	45	81	81	114	498	1590	1519	285
C 51 2_23.4	23.4	36	71	71	104	475	1566	1495	285
C 51 2_25.9	25.9	33	69	69	102	475	1566	1495	285
C 51 2_29.8	29.8	21	57	57	90	475	1566	1495	261
C 51 2_33.0	33.0	21	57	57	90	475	1566	1495	261
C 51 2_36.4	36.4	17	52	52	85	475	1566	1495	261
C 51 2_40.4	40.4	17	52	52	85	475	1566	1495	261
C 51 2_43.1	43.1	12	47	47	81	—	—	—	261
C 51 2_47.8	47.8	12	47	47	81	—	—	—	261
C 51 2_51.4	51.4	9.5	45	45	78	—	—	—	261
C 51 2_57.0	57.0	9.5	45	45	78	—	—	—	261
C 51 3_21.8	21.8	161	—	—	230	617	1709	1637	403
C 51 3_23.9	23.9	161	—	—	230	617	1709	1637	403
C 51 3_27.4	27.4	123	—	—	192	570	1661	1590	380
C 51 3_30.1	30.1	123	—	—	192	570	1661	1590	380
C 51 3_37.0	37.0	85	—	—	154	546	1637	1566	332
C 51 3_40.5	40.5	85	—	—	154	546	1637	1566	332
C 51 3_46.7	46.7	57	—	—	126	498	1590	1519	308
C 51 3_51.2	51.2	57	—	—	126	498	1590	1519	308
C 51 3_59.0	59.0	43	78	78	112	498	1590	1519	285
C 51 3_64.6	64.6	43	78	78	112	498	1590	1519	285
C 51 3_72.9	72.9	31	66	66	100	475	1566	1495	285
C 51 3_79.9	79.9	31	66	66	100	475	1566	1495	285
C 51 3_93.0	93.0	19	55	55	88	475	1566	1495	261
C 51 3_101.8	101.8	19	55	55	88	475	1566	1495	261
C 51 3_113.6	113.6	14	50	50	83	475	1566	1495	261
C 51 3_124.4	124.4	14	50	50	83	475	1566	1495	261
C 51 3_134.6	134.6	12	47	47	81	—	—	—	261
C 51 3_147.4	147.4	12	47	47	81	—	—	—	261
C 51 3_160.5	160.5	9.5	45	45	78	—	—	—	261
C 51 3_175.8	175.8	9.5	45	45	78	—	—	—	261
C 51 3_197.9	197.9	7.1	43	43	76	—	—	—	261
C 51 3_216.7	216.7	7.1	43	43	76	—	—	—	261
C 51 4_240.9	240.9	7.1	43	43	76	—	—	—	28
C 51 4_263.8	263.8	7.1	43	43	76	—	—	—	28
C 51 4_297.8	297.8	7.1	43	43	76	—	—	—	28
C 51 4_326.1	326.1	7.1	43	43	76	—	—	—	28
C 51 4_379.6	379.6	4.7	40	40	74	—	—	—	26
C 51 4_415.7	415.7	4.7	40	40	74	—	—	—	26
C 51 4_463.9	463.9	4.7	40	40	74	—	—	—	26
C 51 4_508.0	508.0	4.7	40	40	74	—	—	—	26
C 51 4_549.7	549.7	4.7	40	40	74	—	—	—	26
C 51 4_602.0	602.0	4.7	40	40	74	—	—	—	26
C 51 4_655.4	655.4	4.7	40	40	74	—	—	—	26
C 51 4_717.7	717.7	4.7	40	40	74	—	—	—	26
C 51 4_808.0	808.0	4.7	40	40	74	—	—	—	26
C 51 4_884.9	884.9	4.7	40	40	74	—	—	—	26



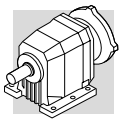
C 51

	i	J (•10-4) [lb•ft2]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 51 2_2.6	2.6	—	—	—	—	403	427	403	427	759	807	783	902
C 51 2_3.3	3.3	—	—	—	—	308	332	308	332	641	688	688	807
C 51 2_4.5	4.5	—	—	—	—	218	230	216	237	546	617	593	712
C 51 2_5.6	5.6	—	—	—	—	166	178	164	187	498	570	546	664
C 51 2_7.0	7.0	—	—	—	—	261	285	261	285	593	664	641	759
C 51 2_7.8	7.8	—	—	—	—	261	285	261	285	593	641	641	759
C 51 2_8.8	8.8	—	—	—	—	211	223	209	233	546	593	593	712
C 51 2_9.8	9.8	—	—	—	—	206	218	204	228	546	593	593	712
C 51 2_11.8	11.8	—	—	—	—	166	178	164	187	498	570	546	664
C 51 2_13.1	13.1	—	—	—	—	164	176	161	185	498	546	546	664
C 51 2_15.0	15.0	—	—	—	—	133	145	131	154	475	522	522	641
C 51 2_16.6	16.6	—	—	—	—	131	142	128	152	475	522	522	641
C 51 2_18.9	18.9	114	126	114	126	116	128	114	138	451	498	498	617
C 51 2_21.0	21.0	112	123	112	123	114	126	112	135	451	498	498	617
C 51 2_23.4	23.4	102	114	102	114	104	102	102	126	427	498	475	593
C 51 2_25.9	25.9	100	112	100	112	102	114	100	123	427	498	475	593
C 51 2_29.8	29.8	88	100	88	100	90	102	88	112	427	475	475	593
C 51 2_33.0	33.0	88	100	88	100	90	102	88	112	427	475	475	593
C 51 2_36.4	36.4	83	95	83	95	85	97	83	107	427	475	475	593
C 51 2_40.4	40.4	83	95	83	95	85	97	83	107	427	475	475	593
C 51 2_43.1	43.1	78	90	78	90	81	93	78	102	—	—	—	—
C 51 2_47.8	47.8	78	90	78	90	81	93	78	102	—	—	—	—
C 51 2_51.4	51.4	76	88	76	88	78	90	76	100	—	—	—	—
C 51 2_57.0	57.0	76	88	76	88	78	90	76	100	—	—	—	—
C 51 3_21.8	21.8	—	—	—	—	230	237	228	261	570	617	617	736
C 51 3_23.9	23.9	—	—	—	—	230	237	228	261	570	617	617	736
C 51 3_27.4	27.4	—	—	—	—	192	204	190	214	522	593	570	688
C 51 3_30.1	30.1	—	—	—	—	192	204	190	214	522	593	570	688
C 51 3_37.0	37.0	—	—	—	—	154	166	152	176	498	546	546	664
C 51 3_40.5	40.5	—	—	—	—	154	166	152	176	498	546	546	664
C 51 3_46.7	46.7	—	—	—	—	126	138	123	147	451	522	498	617
C 51 3_51.2	51.2	—	—	—	—	126	138	123	147	451	522	498	617
C 51 3_59.0	59.0	109	121	109	121	112	123	109	133	451	498	498	617
C 51 3_64.6	64.6	109	121	109	121	112	123	109	133	451	498	498	617
C 51 3_72.9	72.9	97	109	97	109	100	123	97	121	427	498	475	593
C 51 3_79.9	79.9	97	109	97	109	100	123	97	121	427	498	475	593
C 51 3_93.0	93.0	85	97	85	97	88	100	85	109	427	475	475	593
C 51 3_101.8	101.8	85	97	85	97	88	100	85	109	427	475	475	593
C 51 3_113.6	113.6	81	93	81	93	83	95	81	104	427	475	475	593
C 51 3_124.4	124.4	81	93	81	93	83	95	81	104	427	475	475	593
C 51 3_134.6	134.6	78	90	78	90	81	93	78	102	—	—	—	—
C 51 3_147.4	147.4	78	90	78	90	81	93	78	102	—	—	—	—
C 51 3_160.5	160.5	76	88	76	88	78	90	76	100	—	—	—	—
C 51 3_175.8	175.8	76	88	76	88	78	90	76	100	—	—	—	—
C 51 3_197.9	197.9	74	85	74	85	76	88	74	97	—	—	—	—
C 51 3_216.7	216.7	74	85	74	85	76	88	74	97	—	—	—	—
C 51 4_240.9	240.9	—	—	74	85	76	88	74	97	—	—	—	—
C 51 4_263.8	263.8	—	—	74	85	76	88	74	97	—	—	—	—
C 51 4_297.8	297.8	—	—	74	85	76	88	74	97	—	—	—	—
C 51 4_326.1	326.1	—	—	74	85	76	88	74	97	—	—	—	—
C 51 4_379.6	379.6	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_415.7	415.7	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_463.9	463.9	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_508.0	508.0	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_549.7	549.7	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_602.0	602.0	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_655.4	655.4	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_717.7	717.7	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_808.0	808.0	—	—	71	83	74	85	71	95	—	—	—	—
C 51 4_884.9	884.9	—	—	71	83	74	85	71	95	—	—	—	—

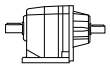


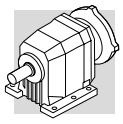
C 61

	i	J (•10-4) [lb•ft2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
C 61 2_2.8	2.8	712	—	—	—	—	—	—	1163	1851	1804	1234
C 61 2_3.7	3.7	451	—	—	522	522	546	546	902	1851	1804	973
C 61 2_4.6	4.6	332	—	—	403	403	427	427	783	1851	1804	854
C 61 2_6.0	6.0	209	—	—	285	285	308	308	664	1851	1804	736
C 61 2_6.7	6.7	332	—	—	—	—	—	—	783	1851	1804	854
C 61 2_7.5	7.5	308	—	—	—	—	—	—	759	1851	1804	831
C 61 2_8.8	8.8	308	—	—	380	380	403	403	759	1851	1804	831
C 61 2_9.8	9.8	285	—	—	356	356	380	380	736	1851	1804	807
C 61 2_10.9	10.9	228	—	—	308	285	332	332	688	1851	1804	736
C 61 2_12.1	12.1	218	—	—	285	285	308	308	664	1851	1804	736
C 61 2_14.3	14.3	138	—	—	206	204	235	235	593	1851	1804	664
C 61 2_15.9	15.9	133	—	—	202	199	230	230	593	1851	1804	641
C 61 2_17.7	17.7	104	—	—	173	171	202	202	546	1851	1804	617
C 61 2_19.6	19.6	102	—	—	171	168	199	199	546	1851	1804	617
C 61 2_22.4	22.4	76	112	112	145	142	173	173	522	1851	1804	593
C 61 2_24.8	24.8	74	109	109	142	140	171	171	522	1851	1804	593
C 61 2_27.4	27.4	50	85	85	119	116	147	147	498	1851	1804	570
C 61 2_30.4	30.4	52	88	88	121	119	150	150	498	1851	1804	570
C 61 2_34.2	34.2	36	71	71	104	102	133	133	475	1851	1804	546
C 61 2_38.0	38.0	36	71	71	104	102	133	133	475	1851	1804	546
C 61 3_26.8	26.8	237	—	—	308	308	332	332	688	1851	1804	759
C 61 3_29.4	29.4	237	—	—	308	308	332	332	688	1851	1804	759
C 61 3_33.0	33.0	192	—	—	261	261	285	285	641	1851	1804	712
C 61 3_36.1	36.1	192	—	—	261	261	285	285	641	1851	1804	712
C 61 3_43.4	43.4	119	—	—	187	185	216	216	570	1851	1804	641
C 61 3_47.6	47.6	119	—	—	187	185	216	216	570	1851	1804	641
C 61 3_53.5	53.5	93	—	—	161	159	190	190	546	1851	1804	617
C 61 3_58.6	58.6	90	—	—	159	157	187	187	546	1851	1804	617
C 61 3_67.7	67.7	66	102	102	135	133	164	164	522	1851	1804	593
C 61 3_74.2	74.2	66	102	102	135	133	164	164	522	1851	1804	593
C 61 3_83.0	83.0	45	81	81	114	112	142	142	498	1851	1804	570
C 61 3_91.0	91.0	45	81	81	114	112	142	142	498	1851	1804	570
C 61 3_103.6	103.6	31	66	66	100	97	128	128	475	1851	1804	546
C 61 3_113.6	113.6	31	66	66	100	97	128	128	475	1851	1804	546
C 61 3_128.1	128.1	24	59	59	93	90	121	121	475	1851	1804	546
C 61 3_140.5	140.5	24	59	59	93	90	121	121	475	1851	1804	546
C 61 3_150.0	150.0	17	52	52	85	83	114	114	—	—	—	546
C 61 3_164.5	164.5	17	52	52	85	83	114	114	—	—	—	546
C 61 3_178.6	178.6	14	50	50	83	81	112	112	—	—	—	522
C 61 3_195.8	195.8	14	50	50	83	81	112	112	—	—	—	522
C 61 4_217.4	217.4	16	52	52	85	83	114	114	—	—	—	261
C 61 4_238.3	238.3	16	52	52	85	83	114	114	—	—	—	261
C 61 4_275.3	275.3	19	55	55	88	85	116	116	—	—	—	261
C 61 4_301.7	301.7	19	55	55	88	85	116	116	—	—	—	261
C 61 4_337.7	337.7	13	50	50	83	81	112	112	—	—	—	261
C 61 4_370.1	370.1	13	50	50	83	81	112	112	—	—	—	261
C 61 4_421.5	421.5	13	47	47	81	78	109	109	—	—	—	261
C 61 4_462.0	462.0	13	47	47	81	78	109	109	—	—	—	261
C 61 4_521.1	521.1	12	47	47	81	78	109	109	—	—	—	261
C 61 4_571.2	571.2	12	47	47	81	78	109	109	—	—	—	261
C 61 4_610.1	610.1	12	47	47	81	78	109	109	—	—	—	261
C 61 4_668.8	668.8	12	47	47	81	78	109	109	—	—	—	261
C 61 4_726.3	726.3	11	47	47	81	78	109	109	—	—	—	261
C 61 4_796.1	796.1	11	47	47	81	78	109	109	—	—	—	261



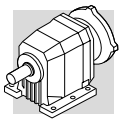
C 61

	i	J (•10-4) [lb•ft2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
C 61 2_2.8	2.8	712	—	—	—	1163	1851	1804	1234
C 61 2_3.7	3.7	451	—	—	522	902	1851	1804	973
C 61 2_4.6	4.6	332	—	—	403	783	1851	1804	854
C 61 2_6.0	6.0	209	—	—	285	664	1851	1804	736
C 61 2_6.7	6.7	332	—	—	—	783	1851	1804	854
C 61 2_7.5	7.5	308	—	—	—	759	1851	1804	831
C 61 2_8.8	8.8	308	—	—	380	759	1851	1804	831
C 61 2_9.8	9.8	285	—	—	356	736	1851	1804	807
C 61 2_10.9	10.9	228	—	—	308	688	1851	1804	736
C 61 2_12.1	12.1	218	—	—	285	664	1851	1804	736
C 61 2_14.3	14.3	138	—	—	206	593	1851	1804	664
C 61 2_15.9	15.9	133	—	—	202	593	1851	1804	641
C 61 2_17.7	17.7	104	—	—	173	546	1851	1804	617
C 61 2_19.6	19.6	102	—	—	171	546	1851	1804	617
C 61 2_22.4	22.4	76	112	112	145	522	1851	1804	593
C 61 2_24.8	24.8	74	109	109	142	522	1851	1804	593
C 61 2_27.4	27.4	50	85	85	119	498	1851	1804	570
C 61 2_30.4	30.4	52	88	88	121	498	1851	1804	570
C 61 2_34.2	34.2	36	71	71	104	475	1851	1804	546
C 61 2_38.0	38.0	36	71	71	104	475	1851	1804	546
C 61 3_26.8	26.8	237	—	—	308	688	1851	1804	759
C 61 3_29.4	29.4	237	—	—	308	688	1851	1804	759
C 61 3_33.0	33.0	192	—	—	261	641	1851	1804	712
C 61 3_36.1	36.1	192	—	—	261	641	1851	1804	712
C 61 3_43.4	43.4	119	—	—	187	570	1851	1804	641
C 61 3_47.6	47.6	119	—	—	187	570	1851	1804	641
C 61 3_53.5	53.5	93	—	—	161	546	1851	1804	617
C 61 3_58.6	58.6	90	—	—	159	546	1851	1804	617
C 61 3_67.7	67.7	66	102	102	135	522	1851	1804	593
C 61 3_74.2	74.2	66	102	102	135	522	1851	1804	593
C 61 3_83.0	83.0	45	81	81	114	498	1851	1804	570
C 61 3_91.0	91.0	45	81	81	114	498	1851	1804	570
C 61 3_103.6	103.6	31	66	66	100	475	1851	1804	546
C 61 3_113.6	113.6	31	66	66	100	475	1851	1804	546
C 61 3_128.1	128.1	24	59	59	93	475	1851	1804	546
C 61 3_140.5	140.5	24	59	59	93	475	1851	1804	546
C 61 3_150.0	150.0	17	52	52	85	—	—	—	546
C 61 3_164.5	164.5	17	52	52	85	—	—	—	546
C 61 3_178.6	178.6	14	50	50	83	—	—	—	522
C 61 3_195.8	195.8	14	50	50	83	—	—	—	522
C 61 4_217.4	217.4	16	52	52	85	—	—	—	261
C 61 4_238.3	238.3	16	52	52	85	—	—	—	261
C 61 4_275.3	275.3	19	55	55	88	—	—	—	261
C 61 4_301.7	301.7	19	55	55	88	—	—	—	261
C 61 4_337.7	337.7	13	50	50	83	—	—	—	261
C 61 4_370.1	370.1	13	50	50	83	—	—	—	261
C 61 4_421.5	421.5	13	47	47	81	—	—	—	261
C 61 4_462.0	462.0	13	47	47	81	—	—	—	261
C 61 4_521.1	521.1	12	47	47	81	—	—	—	261
C 61 4_571.2	571.2	12	47	47	81	—	—	—	261
C 61 4_610.1	610.1	12	47	47	81	—	—	—	261
C 61 4_668.8	668.8	12	47	47	81	—	—	—	261
C 61 4_726.3	726.3	11	47	47	81	—	—	—	261
C 61 4_796.1	796.1	11	47	47	81	—	—	—	261



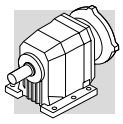
C 61

	i	J (•10-4) [lb•ft2]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 61 2_2.8	2.8	—	—	—	—	—	—	—	—	1115	1163	1163	1281
C 61 2_3.7	3.7	—	—	—	—	522	546	522	546	854	902	902	1020
C 61 2_4.6	4.6	—	—	—	—	403	427	403	427	736	783	783	902
C 61 2_6.0	6.0	—	—	—	—	285	308	285	308	617	664	664	783
C 61 2_6.7	6.7	—	—	—	—	—	—	—	—	736	783	783	902
C 61 2_7.5	7.5	—	—	—	—	—	—	—	—	712	759	759	878
C 61 2_8.8	8.8	—	—	—	—	380	403	380	403	712	759	759	878
C 61 2_9.8	9.8	—	—	—	—	356	380	356	380	546	736	736	854
C 61 2_10.9	10.9	—	—	—	—	308	332	285	308	641	688	688	807
C 61 2_12.1	12.1	—	—	—	—	285	308	285	308	617	688	664	783
C 61 2_14.3	14.3	—	—	—	—	206	218	204	228	546	593	593	712
C 61 2_15.9	15.9	—	—	—	—	202	214	199	223	546	593	593	712
C 61 2_17.7	17.7	—	—	—	—	173	185	171	195	498	570	546	664
C 61 2_19.6	19.6	—	—	—	—	171	183	168	192	498	570	546	664
C 61 2_22.4	22.4	—	—	142	154	145	157	142	166	475	546	522	641
C 61 2_24.8	24.8	—	—	140	152	142	154	140	164	475	546	522	641
C 61 2_27.4	27.4	—	—	116	128	119	131	116	140	451	522	498	617
C 61 2_30.4	30.4	—	—	119	131	121	133	119	142	451	522	498	617
C 61 2_34.2	34.2	—	—	102	114	104	116	102	126	427	498	475	593
C 61 2_38.0	38.0	—	—	102	114	104	116	102	126	427	498	475	593
C 61 3_26.8	26.8	—	—	—	—	308	332	308	332	641	688	688	807
C 61 3_29.4	29.4	—	—	—	—	308	332	308	332	641	688	688	807
C 61 3_33.0	33.0	—	—	—	—	261	285	261	285	593	664	641	759
C 61 3_36.1	36.1	—	—	—	—	261	285	261	285	593	664	641	759
C 61 3_43.4	43.4	—	—	—	—	187	199	185	209	522	570	570	688
C 61 3_47.6	47.6	—	—	—	—	187	199	185	209	522	570	570	688
C 61 3_53.5	53.5	—	—	—	—	161	173	159	183	498	546	546	664
C 61 3_58.6	58.6	—	—	—	—	159	171	157	180	498	546	546	664
C 61 3_67.7	67.7	—	—	133	145	135	147	133	157	475	522	522	641
C 61 3_74.2	74.2	—	—	133	145	135	147	133	157	475	522	522	641
C 61 3_83.0	83.0	—	—	112	123	114	126	112	135	451	498	498	617
C 61 3_91.0	91.0	—	—	112	123	114	126	112	135	451	498	498	617
C 61 3_103.6	103.6	—	—	97	109	100	112	97	121	427	498	475	593
C 61 3_113.6	113.6	—	—	97	109	100	112	97	121	427	498	475	593
C 61 3_128.1	128.1	—	—	90	102	93	104	90	114	427	475	475	593
C 61 3_140.5	140.5	—	—	90	102	93	104	90	114	427	475	475	593
C 61 3_150.0	150.0	—	—	83	95	85	97	83	107	—	—	—	—
C 61 3_164.5	164.5	—	—	83	95	85	97	83	107	—	—	—	—
C 61 3_178.6	178.6	—	—	81	93	83	95	81	104	—	—	—	—
C 61 3_195.8	195.8	—	—	81	93	83	95	81	104	—	—	—	—
C 61 4_217.4	217.4	83	93	83	93	85	97	83	107	—	—	—	—
C 61 4_238.3	238.3	83	93	83	93	85	97	83	107	—	—	—	—
C 61 4_275.3	275.3	85	97	85	97	88	100	85	109	—	—	—	—
C 61 4_301.7	301.7	85	97	85	97	88	100	85	109	—	—	—	—
C 61 4_337.7	337.7	81	90	81	90	83	95	81	104	—	—	—	—
C 61 4_370.1	370.1	81	90	81	90	83	95	81	104	—	—	—	—
C 61 4_421.5	421.5	81	90	81	90	81	93	78	102	—	—	—	—
C 61 4_462.0	462.0	81	90	81	90	81	93	78	102	—	—	—	—
C 61 4_521.1	521.1	78	90	78	90	81	93	78	102	—	—	—	—
C 61 4_571.2	571.2	78	90	78	90	81	93	78	102	—	—	—	—
C 61 4_610.1	610.1	78	88	78	88	81	93	78	102	—	—	—	—
C 61 4_668.8	668.8	78	88	78	88	81	93	78	102	—	—	—	—
C 61 4_726.3	726.3	78	88	78	88	81	93	78	102	—	—	—	—
C 61 4_796.1	796.1	78	88	78	88	81	93	78	102	—	—	—	—

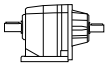


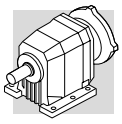
C 70

	i	J (•10-4) [lb•ft2]													
			IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 70 2_4.6	4.6	—	—	—	—	—	—	—	3227	3156	3393	—	—	—	2349
C 70 2_5.9	5.9	—	—	—	—	—	—	—	2824	2776	2990	—	—	—	759
C 70 2_6.3	6.3	—	—	—	—	—	—	—	3061	3014	3227	—	—	—	2207
C 70 2_7.5	7.5	617	—	—	—	—	—	1068	2492	2420	2658	—	—	—	1614
C 70 2_8.0	8.0	—	—	—	—	—	—	—	2729	2682	2895	—	—	—	1851
C 70 2_9.5	9.5	451	—	—	—	—	—	902	2302	2254	—	—	—	—	1424
C 70 2_10.2	10.2	570	—	—	—	—	—	1020	2420	2373	2587	—	—	—	1542
C 70 2_11.2	11.2	356	—	—	—	—	—	807	2231	2159	—	—	—	—	1329
C 70 2_13.0	13.0	403	—	—	—	—	—	854	2254	2207	—	—	—	—	1376
C 70 2_14.1	14.1	235	—	—	285	285	332	688	2088	2041	—	—	—	—	1210
C 70 2_15.3	15.3	332	—	—	—	—	—	783	2207	2136	—	—	—	—	1305
C 70 2_16.7	16.7	164	—	—	225	223	261	617	2017	1970	—	—	—	—	1139
C 70 2_19.3	19.3	216	—	—	285	285	308	664	2065	2017	—	—	—	—	1187
C 70 2_22.9	22.9	152	—	—	214	211	237	593	2017	1970	—	—	—	—	1139
C 70 2_27.7	27.7	123	—	—	190	187	218	570	1993	1922	—	—	—	—	1092
C 70 2_34.7	34.7	76	—	—	145	142	173	522	1946	1875	—	—	—	—	1044
C 70 3_41.3	41.3	104	—	—	171	171	202	546	1970	1898	—	—	—	—	1092
C 70 3_44.7	44.7	100	—	—	166	166	195	546	1970	1898	—	—	—	—	1068
C 70 3_52.2	52.2	71	—	—	138	138	166	522	1922	1875	—	—	—	—	1044
C 70 3_56.5	56.5	66	—	—	135	133	164	522	1922	1875	—	—	—	—	1044
C 70 3_65.9	65.9	47	—	—	116	114	145	498	1898	1851	—	—	—	—	1020
C 70 3_71.3	71.3	47	—	—	114	114	142	498	1898	1851	—	—	—	—	1020
C 70 3_81.4	81.4	36	—	—	102	102	133	475	1898	1851	—	—	—	—	1020
C 70 3_88.2	88.2	33	—	—	102	100	131	475	1898	1804	—	—	—	—	1020
C 70 3_103.8	103.8	24	—	—	90	90	121	475	1875	1827	—	—	—	—	997
C 70 3_112.4	112.4	21	—	—	90	88	119	475	1875	1827	—	—	—	—	997
C 70 3_126.8	126.8	17	—	—	83	83	114	475	1875	1827	—	—	—	—	997
C 70 3_137.4	137.4	17	—	—	83	83	112	475	1875	1827	—	—	—	—	997
C 70 3_150.3	150.3	12	—	—	81	81	228	—	—	—	—	—	—	—	997
C 70 3_162.8	162.8	12	—	—	81	81	109	—	—	—	—	—	—	—	997
C 70 3_179.2	179.2	9.5	—	—	76	78	107	—	—	—	—	—	—	—	997
C 70 3_194.1	194.1	9.5	—	—	76	76	107	—	—	—	—	—	—	—	997
C 70 3_220.9	220.9	7.1	—	—	74	74	102	—	—	—	—	—	—	—	973
C 70 3_239.3	239.3	7.1	—	—	74	74	102	—	—	—	—	—	—	—	973
C 70 4_251.3	251.3	17	52	52	83	83	114	475	—	—	—	—	—	—	261
C 70 4_272.2	272.2	17	52	50	83	83	114	475	—	—	—	—	—	—	261
C 70 4_317.9	317.9	12	47	47	81	78	109	451	—	—	—	—	—	—	261
C 70 4_344.3	344.3	12	47	47	81	78	109	451	—	—	—	—	—	—	261
C 70 4_409.4	409.4	9.5	43	43	76	76	107	451	—	—	—	—	—	—	187
C 70 4_443.5	443.5	9.5	43	43	76	76	107	451	—	—	—	—	—	—	187
C 70 4_512.0	512.0	7.1	40	40	74	74	104	451	—	—	—	—	—	—	185
C 70 4_554.7	554.7	7.1	40	40	74	74	104	451	—	—	—	—	—	—	185
C 70 4_606.8	606.8	4.7	40	40	74	71	102	—	—	—	—	—	—	—	185
C 70 4_657.3	657.3	4.7	40	40	74	71	102	—	—	—	—	—	—	—	183
C 70 4_736.0	736.0	4.7	38	38	71	69	102	—	—	—	—	—	—	—	183
C 70 4_797.3	797.3	4.7	38	38	71	69	102	—	—	—	—	—	—	—	183
C 70 4_922.6	922.6	2.4	38	38	71	69	100	—	—	—	—	—	—	—	183
C 70 4_999.5	999.5	2.4	38	38	71	69	100	—	—	—	—	—	—	—	180
C 70 4_1069	1069	19	38	36	69	69	100	—	—	—	—	—	—	—	180
C 70 4_1158	1158	19	38	36	69	69	100	—	—	—	—	—	—	—	180
C 70 4_1362	1362	14	36	36	69	69	97	—	—	—	—	—	—	—	180
C 70 4_1476	1476	14	36	36	69	69	97	—	—	—	—	—	—	—	180



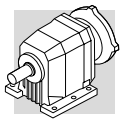
C 70

	i	J (•10-4) [lb•ft2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
C 70 2_4.6	4.6	—	—	—	—	—	3227	3156	2349
C 70 2_5.9	5.9	—	—	—	—	—	2824	2776	759
C 70 2_6.3	6.3	—	—	—	—	—	3061	3014	2207
C 70 2_7.5	7.5	617	—	—	—	1068	2492	2420	1614
C 70 2_8.0	8.0	—	—	—	—	—	2729	2682	1851
C 70 2_9.5	9.5	451	—	—	—	902	2302	2254	1424
C 70 2_10.2	10.2	570	—	—	—	1020	2420	2373	1542
C 70 2_11.2	11.2	356	—	—	—	807	2231	2159	1329
C 70 2_13.0	13.0	403	—	—	—	854	2254	2207	1376
C 70 2_14.1	14.1	235	—	—	285	688	2088	2041	1210
C 70 2_15.3	15.3	332	—	—	—	783	2207	2136	1305
C 70 2_16.7	16.7	164	—	—	225	617	2017	1970	1139
C 70 2_19.3	19.3	216	—	—	285	664	2065	2017	1187
C 70 2_22.9	22.9	152	—	—	214	593	2017	1970	1139
C 70 2_27.7	27.7	123	—	—	190	570	1993	1922	1092
C 70 2_34.7	34.7	76	—	—	145	522	1946	1875	1044
C 70 3_41.3	41.3	104	—	—	171	546	1970	1898	1092
C 70 3_44.7	44.7	100	—	—	166	546	1970	1898	1068
C 70 3_52.2	52.2	71	—	—	138	522	1922	1875	1044
C 70 3_56.5	56.5	66	—	—	135	522	1922	1875	1044
C 70 3_65.9	65.9	47	—	—	116	498	1898	1851	1020
C 70 3_71.3	71.3	47	—	—	114	498	1898	1851	1020
C 70 3_81.4	81.4	36	—	—	102	475	1898	1851	1020
C 70 3_88.2	88.2	33	—	—	102	475	1898	1804	1020
C 70 3_103.8	103.8	24	—	—	90	475	1875	1827	997
C 70 3_112.4	112.4	21	—	—	90	475	1875	1827	997
C 70 3_126.8	126.8	17	—	—	83	475	1875	1827	997
C 70 3_137.4	137.4	17	—	—	83	475	1875	1827	997
C 70 3_150.3	150.3	12	—	—	81	—	—	—	997
C 70 3_162.8	162.8	12	—	—	81	—	—	—	997
C 70 3_179.2	179.2	9.5	—	—	76	—	—	—	997
C 70 3_194.1	194.1	9.5	—	—	76	—	—	—	997
C 70 3_220.9	220.9	7.1	—	—	74	—	—	—	973
C 70 3_239.3	239.3	7.1	—	—	74	—	—	—	973
C 70 4_251.3	251.3	17	52	52	83	475	—	—	261
C 70 4_272.2	272.2	17	52	52	83	475	—	—	261
C 70 4_317.9	317.9	12	47	47	81	451	—	—	261
C 70 4_344.3	344.3	12	47	47	81	451	—	—	261
C 70 4_409.4	409.4	9.5	43	43	76	451	—	—	187
C 70 4_443.5	443.5	9.5	43	43	76	451	—	—	187
C 70 4_512.0	512.0	7.1	40	40	74	451	—	—	185
C 70 4_554.7	554.7	7.1	40	40	74	451	—	—	185
C 70 4_606.8	606.8	4.7	40	40	74	—	—	—	185
C 70 4_657.3	657.3	4.7	40	40	74	—	—	—	183
C 70 4_736.0	736.0	4.7	38	38	71	—	—	—	183
C 70 4_797.3	797.3	4.7	38	38	71	—	—	—	183
C 70 4_922.6	922.6	2.4	38	38	71	—	—	—	183
C 70 4_999.5	999.5	2.4	38	38	71	—	—	—	180
C 70 4_1069	1069	19	38	38	69	—	—	—	180
C 70 4_1158	1158	19	38	38	69	—	—	—	180
C 70 4_1362	1362	14	36	36	69	—	—	—	180
C 70 4_1476	1476	14	36	36	69	—	—	—	180

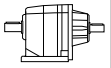


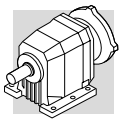
C 80

	i	J (•10-4) [lb•ft2]												
			IEC											
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 80 2_5.6	5.6	—	—	—	—	—	—	—	—	4675	5007	11604	—	—	3892
C 80 2_6.1	6.1	—	—	—	—	—	—	—	—	4580	4983	11509	—	—	3773
C 80 2_7.0	7.0	—	—	—	—	—	—	—	3797	3821	4129	10726	—	—	3014
C 80 2_7.6	7.6	—	—	—	—	—	—	—	3749	3749	4082	10655	—	—	2943
C 80 2_8.9	8.9	—	—	—	—	—	—	—	3251	3204	3465	10180	—	—	2397
C 80 2_9.6	9.6	—	—	—	—	—	—	—	3227	3156	3417	10133	—	—	2349
C 80 2_11.1	11.1	902	—	—	—	—	—	1329	2753	2682	2943	9682	—	—	1875
C 80 2_12.0	12.0	854	—	—	—	—	—	1305	2729	2658	2919	9658	—	—	1851
C 80 2_13.8	13.8	664	—	—	—	—	—	1115	2515	2468	3204	9445	—	—	1637
C 80 2_14.9	14.9	641	—	—	—	—	—	1092	2515	2444	3180	9421	—	—	1637
C 80 2_16.7	16.7	498	—	—	—	—	—	949	2373	2302	3014	9279	—	—	1495
C 80 2_18.1	18.1	498	—	—	—	—	—	949	2349	2302	3014	9255	—	—	1471
C 80 2_20.5	20.5	332	—	—	403	403	427	783	2207	2136	2848	9089	—	—	1305
C 80 2_22.2	22.2	332	—	—	380	380	427	783	2183	2136	2848	9089	—	—	1305
C 80 2_24.0	24.0	308	—	—	380	380	403	759	2159	2112	2824	9065	—	—	1281
C 80 2_25.9	25.9	308	—	—	380	356	403	759	2159	2112	2800	9065	—	—	1281
C 80 2_31.3	31.3	206	—	—	285	261	308	664	2065	2017	—	—	—	—	1187
C 80 2_39.1	39.1	123	—	—	190	190	218	570	1993	1922	—	—	—	—	1092
C 80 3_43.5	43.5	228	—	—	285	285	332	688	2088	2041	—	—	—	—	1210
C 80 3_47.4	47.4	216	—	—	285	285	308	664	2065	2017	—	—	—	—	1187
C 80 3_57.3	57.3	135	—	—	202	202	230	593	1993	1946	—	—	—	—	1115
C 80 3_62.5	62.5	128	—	—	195	195	225	570	1993	1946	—	—	—	—	1115
C 80 3_70.5	70.5	102	—	—	168	166	197	546	1970	1898	—	—	—	—	1068
C 80 3_76.9	76.9	97	—	—	166	164	195	546	1946	1898	—	—	—	—	1068
C 80 3_89.3	89.3	71	—	—	140	138	168	522	1922	1875	—	—	—	—	1044
C 80 3_97.4	97.4	69	—	—	138	135	166	522	1922	1875	—	—	—	—	1044
C 80 3_109.5	109.5	47	—	—	114	114	145	498	1898	1851	—	—	—	—	1020
C 80 3_119.5	119.5	45	—	—	114	112	142	498	1898	1875	—	—	—	—	1020
C 80 3_136.7	136.7	33	—	—	102	100	131	475	1898	1851	—	—	—	—	1020
C 80 3_149.1	149.1	33	—	—	100	100	131	475	1898	1827	—	—	—	—	1020
C 80 3_169.0	169.0	24	—	—	93	90	121	475	1898	1827	—	—	—	—	997
C 80 3_184.4	184.4	24	—	—	93	90	121	475	1898	1827	—	—	—	—	997
C 80 3_197.9	197.9	19	—	—	88	85	116	—	—	—	—	—	—	—	997
C 80 3_215.8	215.8	19	—	—	85	85	116	—	—	—	—	—	—	—	997
C 80 4_261.9	261.9	40	—	—	109	107	138	498	—	—	—	—	—	—	285
C 80 4_285.7	285.7	40	—	—	109	107	138	498	—	—	—	—	—	—	285
C 80 4_334.3	334.3	28	64	64	95	95	126	475	—	—	—	—	—	—	261
C 80 4_364.7	364.7	28	64	62	95	95	126	475	—	—	—	—	—	—	261
C 80 4_417.5	417.5	21	57	55	88	88	119	475	—	—	—	—	—	—	261
C 80 4_455.4	455.4	21	55	55	88	88	131	475	—	—	—	—	—	—	261
C 80 4_529.3	529.3	12	47	47	81	78	109	451	—	—	—	—	—	—	261
C 80 4_577.4	577.4	12	47	47	81	78	109	451	—	—	—	—	—	—	261
C 80 4_664.3	664.3	9.5	47	45	78	76	107	451	—	—	—	—	—	—	261
C 80 4_724.7	724.7	9.5	47	45	78	76	107	451	—	—	—	—	—	—	261
C 80 4_783.4	783.4	7.1	47	43	76	74	104	—	—	—	—	—	—	—	223
C 80 4_854.6	854.6	7.1	47	43	76	74	104	—	—	—	—	—	—	—	223
C 80 4_945.7	945.7	4.7	40	40	74	71	102	—	—	—	—	—	—	—	221
C 80 4_1032	1032	4.7	40	40	74	71	102	—	—	—	—	—	—	—	221
C 80 4_1168	1168	4.7	38	38	71	71	100	—	—	—	—	—	—	—	218
C 80 4_1274	1274	4.7	38	38	71	71	100	—	—	—	—	—	—	—	218
C 80 4_1358	1358	2.4	38	38	71	69	100	—	—	—	—	—	—	—	218
C 80 4_1481	1481	2.4	38	38	71	69	100	—	—	—	—	—	—	—	218



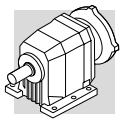
C 80

	i	J (•10-4) [lb•ft2]								
			NEMA							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 80 2_5.6	5.6	—	—	—	—	—	—	4675	11604	3892
C 80 2_6.1	6.1	—	—	—	—	—	—	4580	11509	3773
C 80 2_7.0	7.0	—	—	—	—	—	3797	3821	10726	3014
C 80 2_7.6	7.6	—	—	—	—	—	3749	3749	10655	2943
C 80 2_8.9	8.9	—	—	—	—	—	3251	3204	10180	2397
C 80 2_9.6	9.6	—	—	—	—	—	3227	3156	10133	2349
C 80 2_11.1	11.1	902	—	—	—	1329	2753	2682	9682	1875
C 80 2_12.0	12.0	854	—	—	—	1305	2729	2658	9658	1851
C 80 2_13.8	13.8	664	—	—	—	1115	2515	2468	9445	1637
C 80 2_14.9	14.9	641	—	—	—	1092	2515	2444	9421	163 7
C 80 2_16.7	16.7	498	—	—	—	949	2373	2302	9279	1495
C 80 2_18.1	18.1	498	—	—	—	949	2349	2302	9255	1471
C 80 2_20.5	20.5	332	—	—	403	783	2207	2136	9089	1305
C 80 2_22.2	22.2	332	—	—	380	783	2183	2136	9089	1305
C 80 2_24.0	24.0	308	—	—	380	759	2159	2112	9065	1281
C 80 2_25.9	25.9	308	—	—	380	759	2159	2112	9065	1281
C 80 2_31.3	31.3	206	—	—	285	664	2065	2017	—	1187
C 80 2_39.1	39.1	123	—	—	190	570	1993	1922	—	1092
C 80 3_43.5	43.5	228	—	—	285	688	2088	2041	—	1210
C 80 3_47.4	47.4	216	—	—	285	664	2065	2017	—	1187
C 80 3_57.3	57.3	135	—	—	202	593	1993	1946	—	1115
C 80 3_62.5	62.5	128	—	—	195	570	1993	1946	—	1115
C 80 3_70.5	70.5	102	—	—	168	546	1970	1898	—	1068
C 80 3_76.9	76.9	97	—	—	166	546	1946	1898	—	1068
C 80 3_89.3	89.3	71	—	—	140	522	1922	1875	—	1044
C 80 3_97.4	97.4	69	—	—	138	522	1922	1875	—	1044
C 80 3_109.5	109.5	47	—	—	114	498	1898	1851	—	1020
C 80 3_119.5	119.5	45	—	—	114	498	1898	1875	—	1020
C 80 3_136.7	136.7	33	—	—	102	475	1898	1851	—	1020
C 80 3_149.1	149.1	33	—	—	100	475	1898	1827	—	1020
C 80 3_169.0	169.0	24	—	—	93	475	1898	1827	—	997
C 80 3_184.4	184.4	24	—	—	93	475	1898	1827	—	997
C 80 3_197.9	197.9	19	—	—	88	—	—	—	—	997
C 80 3_215.8	215.8	19	—	—	85	—	—	—	—	997
C 80 4_261.9	261.9	40	—	—	109	498	—	—	—	285
C 80 4_285.7	285.7	40	—	—	109	498	—	—	—	285
C 80 4_334.3	334.3	28	64	64	95	475	—	—	—	261
C 80 4_364.7	364.7	28	64	64	95	475	—	—	—	261
C 80 4_417.5	417.5	21	57	57	88	475	—	—	—	261
C 80 4_455.4	455.4	21	55	55	88	475	—	—	—	261
C 80 4_529.3	529.3	12	47	47	81	451	—	—	—	261
C 80 4_577.4	577.4	12	47	47	81	451	—	—	—	261
C 80 4_664.3	664.3	9.5	47	47	78	451	—	—	—	261
C 80 4_724.7	724.7	9.5	47	47	78	451	—	—	—	261
C 80 4_783.4	783.4	7.1	47	47	76	—	—	—	—	223
C 80 4_854.6	854.6	7.1	47	47	76	—	—	—	—	223
C 80 4_945.7	945.7	4.7	40	40	74	—	—	—	—	221
C 80 4_1032	1032	4.7	40	40	74	—	—	—	—	221
C 80 4_1168	1168	4.7	38	38	71	—	—	—	—	218
C 80 4_1274	1274	4.7	38	38	71	—	—	—	—	218
C 80 4_1358	1358	2.4	38	38	71	—	—	—	—	218
C 80 4_1481	1481	2.4	38	38	71	—	—	—	—	218

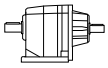


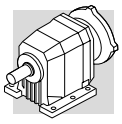
C 90

	i	J (•10-4) [lb•ft2]												
			IEC											
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 90 2_5.2	5.2	—	—	—	—	—	—	—	—	—	7878	14476	15116	—	14689
C 90 2_5.6	5.6	—	—	—	—	—	—	—	—	—	7617	14214	14855	—	14452
C 90 2_6.8	6.8	—	—	—	—	—	—	—	—	—	5980	12577	13218	—	12814
C 90 2_7.3	7.3	—	—	—	—	—	—	—	—	—	5838	12435	13075	—	12648
C 90 2_8.3	8.3	—	—	—	—	—	—	—	—	—	5031	11628	12269	—	11841
C 90 2_9.0	9.0	—	—	—	—	—	—	—	—	—	4936	11509	12174	—	11747
C 90 2_10.4	10.4	—	—	—	—	—	—	—	3963	3892	4153	10869	11485	—	10940
C 90 2_11.2	11.2	—	—	—	—	—	—	—	3892	3844	4105	10797	11438	—	10869
C 90 2_12.8	12.8	1542	—	—	—	—	—	1993	3393	3346	3607	10346	10963	—	10418
C 90 2_13.9	13.9	1495	—	—	—	—	—	1946	3346	3299	4746	10299	10916	—	10370
C 90 2_16.0	16.0	1115	—	—	—	—	—	1566	2966	2919	3654	9896	10513	—	9967
C 90 2_17.3	17.3	1092	—	—	—	—	—	1542	2943	2895	3631	9872	10489	—	9943
C 90 2_18.7	18.7	997	—	—	—	—	—	1448	2871	2824	3512	9777	10275	—	9848
C 90 2_20.2	20.2	973	—	—	—	—	—	1448	4722	2800	3488	9753	10394	—	9824
C 90 2_22.9	22.9	664	—	—	712	712	736	1115	2515	2468	3156	9421	10038	—	9492
C 90 2_24.8	24.8	641	—	—	688	688	736	1092	2492	2444	3156	9397	10014	—	9468
C 90 2_27.2	27.2	522	—	—	593	593	617	973	2397	2349	3037	9279	9919	—	9350
C 90 2_29.4	29.4	522	—	—	593	570	617	973	2373	2326	3014	9279	9896	—	9350
C 90 2_35.1	35.1	332	—	—	403	403	427	783	2207	2136	—	—	—	—	9160
C 90 3_39.4	39.4	641	—	—	—	—	—	1092	2492	2444	2658	9445	10062	—	9777
C 90 3_43.0	43.0	617	—	—	—	—	—	1068	2468	2420	2634	9397	10014	—	9729
C 90 3_50.3	50.3	451	—	—	—	—	—	902	2326	2254	2990	9231	9848	—	9563
C 90 3_54.9	54.9	451	—	—	—	—	—	878	2302	2254	2966	9231	9848	—	9516
C 90 3_59.2	59.2	380	—	—	—	—	—	831	2231	2183	2895	9136	9753	—	9445
C 90 3_64.6	64.6	356	—	—	—	—	—	807	2231	2159	2871	9112	9729	—	9445
C 90 3_74.4	74.4	237	—	—	308	308	332	688	2088	2041	2753	8994	9611	—	9326
C 90 3_81.2	81.2	233	—	—	285	285	308	688	2088	2041	2729	8994	9611	—	9302
C 90 3_88.2	88.2	168	—	—	230	228	261	617	2017	1970	2682	8923	9540	—	9231
C 90 3_96.2	96.2	164	—	—	223	223	261	617	2017	1970	2658	8923	9540	—	9231
C 90 3_107.0	107.0	135	—	—	199	199	228	593	1993	1946	—	—	—	—	9207
C 90 3_116.7	116.7	131	—	—	197	195	225	570	1993	1946	—	—	—	—	9207
C 90 3_134.1	134.1	83	—	—	152	150	180	522	1946	1898	—	—	—	—	9160
C 90 3_146.3	146.3	81	—	—	150	147	178	522	1946	1898	—	—	—	—	9160
C 90 3_157.8	157.8	59	—	—	128	126	157	498	1922	1875	—	—	—	—	9136
C 90 3_172.1	172.1	57	—	—	126	123	154	498	1922	1875	—	—	—	—	9136
C 90 4_212.4	212.4	100	—	—	166	166	197	546	1970	1898	—	—	—	—	332
C 90 4_231.7	231.7	97	—	—	166	164	195	546	1946	1898	—	—	—	—	332
C 90 4_268.5	268.5	66	—	—	135	133	164	522	1922	1875	—	—	—	—	308
C 90 4_292.9	292.9	66	—	—	135	62	164	522	1922	1875	—	—	—	—	308
C 90 4_339.0	339.0	47	81	81	114	114	142	498	1898	1851	—	—	—	—	285
C 90 4_369.8	369.8	47	81	81	114	114	142	498	1898	1851	—	—	—	—	285
C 90 4_419.0	419.0	33	69	69	102	100	131	475	1898	1851	—	—	—	—	285
C 90 4_457.1	457.1	33	69	69	102	100	131	475	1898	1851	—	—	—	—	285
C 90 4_534.2	534.2	21	57	57	90	88	119	475	1875	1827	—	—	—	—	261
C 90 4_582.8	582.8	21	57	57	90	88	119	475	1875	1827	—	—	—	—	261
C 90 4_652.8	652.8	17	50	50	83	83	112	475	1875	1827	—	—	—	—	261
C 90 4_712.2	712.2	17	50	50	83	83	112	475	1875	1827	—	—	—	—	261
C 90 4_773.6	773.6	12	47	47	81	78	109	—	—	—	—	—	—	—	230
C 90 4_844.0	844.0	12	47	47	81	78	109	—	—	—	—	—	—	—	228
C 90 4_922.3	922.3	9.5	43	43	76	76	107	—	—	—	—	—	—	—	225
C 90 4_1006	1006	9.5	43	43	76	76	107	—	—	—	—	—	—	—	223
C 90 4_1137	1137	7.1	40	40	74	71	102	—	—	—	—	—	—	—	221
C 90 4_1240	1240	7.1	40	40	74	71	102	—	—	—	—	—	—	—	221



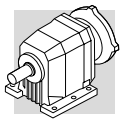
C 90

	i	J (•10-4) [lb•ft2]								
			NEMA							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 90 2_5.2	5.2	—	—	—	—	—	—	—	14476	14689
C 90 2_5.6	5.6	—	—	—	—	—	—	—	14214	14452
C 90 2_6.8	6.8	—	—	—	—	—	—	—	12577	12814
C 90 2_7.3	7.3	—	—	—	—	—	—	—	12435	12648
C 90 2_8.3	8.3	—	—	—	—	—	—	—	11628	11841
C 90 2_9.0	9.0	—	—	—	—	—	—	—	11509	11747
C 90 2_10.4	10.4	—	—	—	—	—	3963	3892	10869	10940
C 90 2_11.2	11.2	—	—	—	—	—	3892	3844	10797	10869
C 90 2_12.8	12.8	1542	—	—	—	1993	3393	3346	10346	10418
C 90 2_13.9	13.9	1495	—	—	—	1946	3346	3299	10299	10370
C 90 2_16.0	16.0	1115	—	—	—	1566	2966	2919	9896	9967
C 90 2_17.3	17.3	1092	—	—	—	1542	2943	2895	9872	9943
C 90 2_18.7	18.7	997	—	—	—	1448	2871	2824	9777	9848
C 90 2_20.2	20.2	973	—	—	—	1448	4722	2800	9753	9824
C 90 2_22.9	22.9	664	—	—	712	1115	2515	2468	9421	9492
C 90 2_24.8	24.8	641	—	—	688	1092	2492	2444	9397	9468
C 90 2_27.2	27.2	522	—	—	593	973	2397	2349	9279	9350
C 90 2_29.4	29.4	522	—	—	593	973	2373	2326	9279	9350
C 90 2_35.1	35.1	332	—	—	403	783	2207	2136	—	9160
C 90 3_39.4	39.4	641	—	—	—	1092	2492	2444	9445	9777
C 90 3_43.0	43.0	617	—	—	—	1068	2468	2420	9397	9729
C 90 3_50.3	50.3	451	—	—	—	902	2326	2254	9231	9563
C 90 3_54.9	54.9	451	—	—	—	878	2302	2254	9231	9516
C 90 3_59.2	59.2	380	—	—	—	831	2231	2183	9136	9445
C 90 3_64.6	64.6	356	—	—	—	807	2231	2159	9112	9445
C 90 3_74.4	74.4	237	—	—	308	688	2088	2041	8994	9326
C 90 3_81.2	81.2	233	—	—	285	688	2088	2041	8994	9302
C 90 3_88.2	88.2	168	—	—	230	617	2017	1970	8923	9231
C 90 3_96.2	96.2	164	—	—	223	617	2017	1970	8923	9231
C 90 3_107.0	107.0	135	—	—	199	593	1993	1946	—	9207
C 90 3_116.7	116.7	131	—	—	197	570	1993	1946	—	9207
C 90 3_134.1	134.1	83	—	—	152	522	1946	1898	—	9160
C 90 3_146.3	146.3	81	—	—	150	522	1946	1898	—	9160
C 90 3_157.8	157.8	59	—	—	128	498	1922	1875	—	9136
C 90 3_172.1	172.1	57	—	—	126	498	1922	1875	—	9136
C 90 4_212.4	212.4	100	—	—	166	546	1970	1898	—	332
C 90 4_231.7	231.7	97	—	—	166	546	1946	1898	—	332
C 90 4_268.5	268.5	66	—	—	135	522	1922	1875	—	308
C 90 4_292.9	292.9	66	—	—	135	522	1922	1875	—	308
C 90 4_339.0	339.0	47	81	81	114	498	1898	1851	—	285
C 90 4_369.8	369.8	47	81	81	114	498	1898	1851	—	285
C 90 4_419.0	419.0	33	69	69	102	475	1898	1851	—	285
C 90 4_457.1	457.1	33	69	69	102	475	1898	1851	—	285
C 90 4_534.2	534.2	21	57	57	90	475	1875	1827	—	261
C 90 4_582.8	582.8	21	57	57	90	475	1875	1827	—	261
C 90 4_652.8	652.8	17	50	50	83	475	1875	1827	—	261
C 90 4_712.2	712.2	17	50	50	83	475	1875	1827	—	261
C 90 4_773.6	773.6	12	47	47	81	—	—	—	—	230
C 90 4_844.0	844.0	12	47	47	81	—	—	—	—	228
C 90 4_922.3	922.3	9.5	43	43	76	—	—	—	—	225
C 90 4_1006	1006	9.5	43	43	76	—	—	—	—	223
C 90 4_1137	1137	7.1	40	40	74	—	—	—	—	221
C 90 4_1240	1240	7.1	40	40	74	—	—	—	—	221

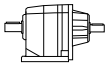


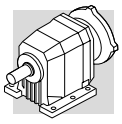
C 100

	i	**J** (•10^{-4}) [lb•ft^2]												
			IEC											
			63	**71**	**80**	**90**	**100 112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	
C 100 2_4.9	4.9	—	—	—	—	—	—	—	—	—	15994	22781	23422	23018	23066
C 100 2_5.3	5.3	—	—	—	—	—	—	—	—	—	15354	22140	22781	22378	22401
C 100 2_6.5	6.5	—	—	—	—	—	—	—	—	—	11414	18201	18842	18438	18462
C 100 2_7.1	7.1	—	—	—	—	—	—	—	—	—	11035	17822	18462	18059	18106
C 100 2_8.4	8.4	—	—	—	—	—	—	—	—	—	8662	15448	16089	15662	15709
C 100 2_9.0	9.0	—	—	—	—	—	—	—	—	—	8424	15211	15852	15448	15496
C 100 2_10.1	10.1	—	—	—	—	—	—	—	—	—	6906	13692	14333	13930	13977
C 100 2_10.9	10.9	—	—	—	—	—	—	—	—	—	6763	13526	14167	13764	13811
C 100 2_12.5	12.5	—	—	—	—	—	—	—	5316	5268	5529	12364	13052	12791	12553
C 100 2_13.5	13.5	—	—	—	—	—	—	—	5221	5173	5411	12269	12933	12625	12435
C 100 2_15.2	15.2	2895	—	—	—	—	—	1946	3346	4746	4722	11201	11841	12530	12197
C 100 2_16.5	16.5	2824	—	—	—	—	—	3275	4675	4627	4888	11770	12458	12126	11960
C 100 2_18.7	18.7	2302	—	—	—	—	—	2753	4153	4105	4817	11248	11889	11580	11391
C 100 2_20.2	20.2	2254	—	—	—	—	—	2705	4105	4058	4770	11177	11841	11533	11343
C 100 2_22.2	22.2	1732	—	—	—	—	—	2183	2420	3560	4248	10631	11319	10987	10821
C 100 2_24.1	24.1	1709	—	—	—	—	—	2159	3560	3512	4224	10607	11296	10963	10797
C 100 2_29.6	29.6	1187	—	—	—	—	1281	1637	3061	3014	3702	10085	10774	10441	10275
C 100 3_34.3	34.3	—	—	—	—	—	—	—	3512	3465	3678	10418	11035	11177	10940
C 100 3_36.9	36.9	—	—	—	—	—	—	—	3441	3393	3607	10346	10963	11106	10869
C 100 3_42.9	42.9	1044	—	—	—	—	—	1495	2919	2848	3085	9848	10465	10702	10370
C 100 3_46.2	46.2	1020	—	—	—	—	—	1448	2871	2800	3037	9801	10418	10726	10323
C 100 3_53.3	53.3	783	—	—	—	—	—	1210	2634	2587	3299	9563	10180	10252	10062
C 100 3_57.4	57.4	736	—	—	—	—	—	1187	2610	2539	3275	9516	10133	10228	10038
C 1003_64.5	64.5	570	—	—	—	—	—	1020	2444	2397	3085	9350	9967	10014	9848
C 100 3_69.4	69.4	570	—	—	—	—	—	1020	2420	2373	3061	9326	9943	9990	9824
C 100 3_79.4	79.4	380	—	—	—	—	475	831	2254	2183	2895	9136	9753	9801	9658
C 100 3_85.6	85.6	380	—	—	—	—	451	831	2231	2183	2871	9136	9753	9801	9635
C 100 3_92.7	92.7	356	—	—	—	—	427	807	2207	2159	2848	9112	9729	9777	9611
C 100 3_99.8	99.8	332	—	—	—	—	427	783	2207	2136	2824	9089	9706	9753	9587
C 100 3_111.9	111.9	235	—	—	—	—	332	688	2088	2041	—	—	—	—	9302
C 100 3_120.5	120.5	228	—	—	—	—	332	688	2088	2041	—	—	—	—	9302
C 100 3_139.7	139.7	142	—	—	—	—	237	593	1993	1946	—	—	—	—	9207
C 100 3_150.4	150.4	138	—	—	—	—	233	593	1993	1946	—	—	—	—	9207
C 100 4_162.1	162.1	308	—	—	380	380	403	759	2373	2112	—	—	—	—	546
C 100 4_185.4	185.4	228	—	—	308	285	332	688	2088	2041	—	—	—	—	475
C 100 4_199.6	199.6	202	—	—	285	285	332	664	2088	2041	—	—	—	—	475
C 100 4_244.2	244.2	135	—	—	202	202	233	593	1993	1946	—	—	—	—	380
C 100 4_263.0	263.0	133	—	—	202	199	230	593	1993	1946	—	—	—	—	380
C 100 4_300.5	300.5	100	—	—	168	168	199	546	1970	1898	—	—	—	—	356
C 100 4_323.6	323.6	100	—	—	168	166	197	546	1970	1898	—	—	—	—	332
C 100 4_380.5	380.5	74	107	107	140	131	168	522	1922	1875	—	—	—	—	308
C 100 4_409.8	409.8	71	107	107	140	131	168	522	1922	1875	—	—	—	—	308
C 100 4_466.7	466.7	47	83	83	116	114	145	475	1898	1851	—	—	—	—	285
C 100 4_502.6	502.6	47	83	81	114	114	145	475	1898	1851	—	—	—	—	285
C 100 4_582.6	582.6	33	69	69	102	100	131	475	1898	1827	—	—	—	—	285
C 100 4_627.4	627.4	33	69	69	102	100	131	475	1898	1827	—	—	—	—	285
C 100 4_720.3	720.3	24	59	59	93	81	121	475	1875	1827	—	—	—	—	261
C 100 4_775.7	775.7	24	59	59	93	81	121	475	1875	1827	—	—	—	—	261
C 100 4_843.3	843.3	19	55	55	88	85	116	—	—	—	—	—	—	—	235
C 100 4_908.2	908.2	19	55	55	88	85	116	—	—	—	—	—	—	—	235
C 100 4_1004	1004	14	50	47	81	81	112	—	—	—	—	—	—	—	230
C 100 4_1081	1081	14	50	47	81	81	112	—	—	—	—	—	—	—	230



C 100

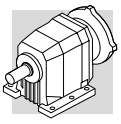
	i	J (•10-4) [lb•ft2]								
			NEMA							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 100 2_4.9	4.9	—	—	—	—	—	—	—	22781	23066
C 100 2_5.3	5.3	—	—	—	—	—	—	—	22140	22401
C 100 2_6.5	6.5	—	—	—	—	—	—	—	18201	18462
C 100 2_7.1	7.1	—	—	—	—	—	—	—	17822	18106
C 100 2_8.4	8.4	—	—	—	—	—	—	—	15448	15709
C 100 2_9.0	9.0	—	—	—	—	—	—	—	15211	15496
C 100 2_10.1	10.1	—	—	—	—	—	—	—	13692	13977
C 100 2_10.9	10.9	—	—	—	—	—	—	—	13526	13811
C 100 2_12.5	12.5	—	—	—	—	—	5316	5268	12364	12553
C 100 2_13.5	13.5	—	—	—	—	—	5221	5173	12269	12435
C 100 2_15.2	15.2	2895	—	—	—	1946	3346	4746	11201	12197
C 100 2_16.5	16.5	2824	—	—	—	3275	4675	4627	11770	11960
C 100 2_18.7	18.7	2302	—	—	—	2753	4153	4105	11248	11391
C 100 2_20.2	20.2	2254	—	—	—	2705	4105	4058	11177	11343
C 100 2_22.2	22.2	1732	—	—	—	2183	2420	3560	10631	10821
C 100 2_24.1	24.1	1709	—	—	—	2159	3560	3512	10607	10797
C 100 2_29.6	29.6	1187	—	—	—	1637	3061	3014	10085	10275
C 100 3_34.3	34.3	—	—	—	—	—	3512	3465	10418	10940
C 100 3_36.9	36.9	—	—	—	—	—	3441	3393	10346	10869
C 100 3_42.9	42.9	1044	—	—	—	1495	2919	2848	9848	10370
C 100 3_46.2	46.2	1020	—	—	—	1448	2871	2800	9801	10323
C 100 3_53.3	53.3	783	—	—	—	1210	2634	2587	9563	10062
C 100 3_57.4	57.4	736	—	—	—	1187	2610	2539	9516	10038
C 1003_64.5	64.5	570	—	—	—	1020	2444	2397	9350	9848
C 100 3_69.4	69.4	570	—	—	—	1020	2420	2373	9326	9824
C 100 3_79.4	79.4	380	—	—	—	831	2254	2183	9136	9658
C 100 3_85.6	85.6	380	—	—	—	831	2231	2183	9136	9635
C 100 3_92.7	92.7	356	—	—	—	807	2207	2159	9112	9611
C 100 3_99.8	99.8	332	—	—	—	783	2207	2136	9089	9587
C 100 3_111.9	111.9	235	—	—	—	688	2088	2041	—	9302
C 100 3_120.5	120.5	228	—	—	—	688	2088	2041	—	9302
C 100 3_139.7	139.7	142	—	—	—	593	1993	1946	—	9207
C 100 3_150.4	150.4	138	—	—	—	593	1993	1946	—	9207
C 100 4_162.1	162.1	308	—	—	380	759	2373	2112	—	546
C 100 4_185.4	185.4	228	—	—	308	688	2088	2041	—	475
C 100 4_199.6	199.6	202	—	—	285	664	2088	2041	—	475
C 100 4_244.2	244.2	135	—	—	202	593	1993	1946	—	380
C 100 4_263.0	263.0	133	—	—	202	593	1993	1946	—	380
C 100 4_300.5	300.5	100	—	—	168	546	1970	1898	—	356
C 100 4_323.6	323.6	100	—	—	168	546	1970	1898	—	332
C 100 4_380.5	380.5	74	107	107	140	522	1922	1875	—	308
C 100 4_409.8	409.8	71	107	107	140	522	1922	1875	—	308
C 100 4_466.7	466.7	47	83	83	116	475	1898	1851	—	285
C 100 4_502.6	502.6	47	83	83	114	475	1898	1851	—	285
C 100 4_582.6	582.6	33	69	69	102	475	1898	1827	—	285
C 100 4_627.4	627.4	33	69	69	102	475	1898	1827	—	285
C 100 4_720.3	720.3	24	59	59	93	475	1875	1827	—	261
C 100 4_775.7	775.7	24	59	59	93	475	1875	1827	—	261
C 100 4_843.3	843.3	19	55	55	88	—	—	—	—	235
C 100 4_908.2	908.2	19	55	55	88	—	—	—	—	235
C 100 4_1004	1004	14	50	50	81	—	—	—	—	230
C 100 4_1081	1081	14	50	50	81	—	—	—	—	230



29 EXACT RATIOS

i_N	C12	C22	C32	C36	C41	C51	C61	C70	C80	C90	C100
2.5						2.62895					
2.8	2.76731	2.72212	2.87879	2.68687	2.65909		2.82011				
3.2	3.20743	3.32609		3.18182		3.30758					
3.5	3.65132	3.70709	3.40909	3.48617	3.61111		3.69925				
4.0			3.73518	4.20000							
4.5	4.31203	4.25831	4.50000	4.62201	4.66304	4.45370	4.55556	4.57143			
5.0	4.86842	4.76902	4.95215	5.27807						5.17231	4.92308
5.6	5.59868	5.59006	5.65508	5.84659	5.95263	5.63043		5.85034	5.64103	5.60333	5.33333
6.3	6.23158	6.08696	6.26420		6.36364		6.00176 6.74074	6.25455	6.11111	6.75824	6.52308
7.1		7.08300	7.16498	6.78114	7.06612	6.98684	7.48485	7.46032	7.04000	7.32143	7.06667
8.0	7.62201		8.48485	8.03030		7.75120		8.00433	7.62667	8.32615	8.35165
9.0	8.83422	8.65455	9.29644	8.79842	8.64198	8.79040	8.84211	9.52381	8.86447	9.02000	9.04762
10.0	10.05682	9.64593		10.60000	9.59596	9.75207	9.81818	10.20707	9.60317	10.36264	10.09231
11.2		11.08021	11.20000	11.66507	11.15942	11.83642	10.88889	11.20879	11.09402	11.22619	10.93333
12.5	11.87662	12.40909	12.32536	13.32086	12.39130	13.13131	12.09091	13.03030	12.01852	12.79060	12.45421
14.0	13.40909	14.54545	14.07487	14.75568	14.24561	14.96377	14.34568	14.09524	13.76410 14.91111	13.85648	13.49206
16.0	15.42045	15.83838	15.59091		15.81818	16.60079	15.92929	15.33566 16.70330	16.66272	15.97949	15.21368 16.48148
18.0	17.16364 18.38961	18.13636	18.18182	17.20779	17.79167	18.89035	17.65217		18.05128	17.31111 18.68047	18.66667
20.0	20.62937	20.02424	20.08081	19.00505	19.75568	20.95694 21.81606	19.60079	19.28485	20.53333	20.23718	20.22222
22.4	23.24242	21.45455	22.90909	22.13187	22.55556	23.35417 23.89242	22.35088	22.85315	22.24444	22.91795	22.24852
25.0	25.35537	24.27972	25.11515	26.20879	25.04545	25.90909	24.81818 26.77895		23.95266 25.94872	24.82778	24.10256
28.0	29.50000	27.15152 29.61983	26.90909	28.71572	28.31111 28.49003	27.44759 29.77315	27.41667 29.35385	27.71901		27.17160 29.43590	29.55556
31.5	32.77778	33.09091	29.76224 33.09091		31.22945 31.43636	30.05994 33.03030	30.44318 32.97778		31.33333		
35.5	37.00909	36.76768	36.09917	34.59560	33.38462 36.78930	36.38333 36.95862	34.22222 36.14872	34.74747		35.09848	34.29705 36.93529
40.0	42.31313		40.72727	38.07172	37.06993 40.32673	40.36364 40.47619	38.00000	41.26263	39.11111	39.40239	42.92328
45.0		43.27273	45.25253	43.47576	44.75207 46.96356	43.11538 46.72360	43.44691	44.70118	43.49074	42.98443	46.22507
50.0	47.60227	48.64646	52.43636	48.15865	51.47929	47.83217 51.40152	47.62450	52.16479	47.44444	50.30093	53.25397
56.0	55.16883	54.72727	59.39394	56.16170	58.65385	57.02479 58.98416	53.46087 58.60134	56.51186	57.29733	54.87374 59.20032	57.35043
63.0	66.15152	60.00000 63.27273	66.81818	62.02747	64.29364	64.59803		65.85315	62.50617	64.58217	64.46886
71.0		65.33333 74.81250	74.74747	70.76374	74.35897	72.92219	67.69123 74.20000	71.34091	70.50362	74.44537	69.42801
80.0		82.60000	82.55443	77.57802 83.11931	81.50888	79.86264	83.03333	81.41434	76.91304	81.21313	79.44444
90.0		88.50000	94.18182	91.93238	93.33333	92.96514	91.01731	88.19886	89.27047	88.22009	85.55556 92.67399
100.0		100.15385	103.25118	102.21429	102.30769	101.81319	103.64444	103.79138	97.38596	96.24009	99.80276

2x **3x**



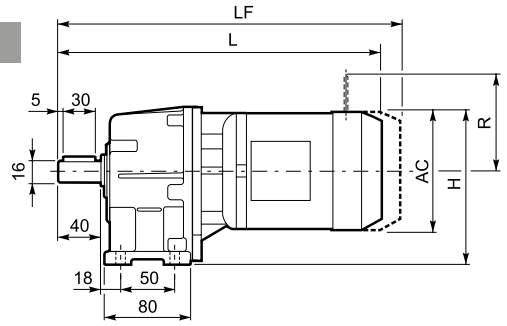
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125.5		122.18182	122.35587	125.80220	120.64178	124.41758	128.14222	126.83497	119.45833		120.51282
140.0		136.50000	136.04040 148.40771	139.78022	132.86713 145.64282	134.62559 147.43872	140.46359	137.40455	136.68519 149.11111	134.13580 146.32997	139.68254
160.0		151.66667	167.43434	161.97033	164.10256	160.49861	150.03077 164.45680	150.30339 162.82867	168.99259	157.76199	150.42735 162.10526
180.0		178.50000	186.03816	183.46154	179.88166	175.77423	178.59394	179.18945	184.35556	172.10399	185.37037
200.0		200.66667		206.39423	190.76923 209.11243	197.87075	195.76643	194.12190	197.85897	212.38169	199.62963
225.0		225.75000	215.57172	230.88697		216.70330	217.40754	220.91375	215.84615	231.68911	
250.0		261.00000	244.17508	255.00183	239.94755	240.85197 263.77530	238.31211	239.32323 251.28438	261.85613	268.49591	244.21811 263.00412
280.0			274.69697	290.91758	263.01943		275.27766	272.22475	285.66123	292.90463	300.50725
315.0				318.93187	304.19580 333.44540	297.76563 326.10577	301.74667	317.86109	334.27376	338.95085	323.62319
355.0				341.71272			337.66889 370.13705	344.34951	364.66228	369.76457	380.49708
400.0				377.94421 420.21429	381.81818 418.53147	379.60764 415.73718	421.48741	409.39931	417.48199	419.04541	409.76608
450.0				458.41558	450.24207	463.88750	462.01504	443.51592	455.43490	457.14044	466.73611
500.0				517.18681	493.53457	508.03846	521.11170	512.03745	529.26678		502.63889
560.0				574.65201	543.54736	549.72115	571.21860	554.70724	577.38194	534.22163 582.78723	582.59259
630.0				665.87802	595.81153	602.04142 655.36932	610.12513 668.79101	606.78035 657.34538	664.32106	652.82863	627.40741
710.0				754.23077	671.32867 735.87951	717.74476	726.28202	735.97521	724.71389	712.17669	720.29630
800.0				848.50962	780.41958	807.97222	796.11683	797.30647	783.37099	773.62229 843.95159	775.70370 843.33333
900.0					855.45992	884.87179		922.59000	854.58654 945.71181	922.30089	908.20513
1000.0								999.47250 1069.05117	1031.68561	1006.14643	1003.88889
1125.0								1158.13876	1168.03704	1137.05888	1081.11111
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1400.0								1362.26180 1475.78362	1357.84306 1481.28333		

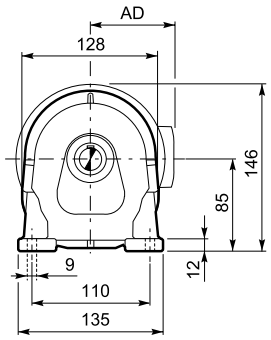
3x 4x

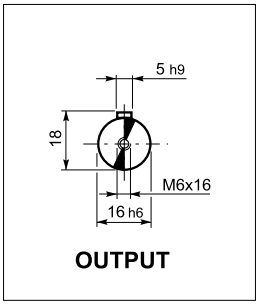
30 DIMENSIONS

C 05...M

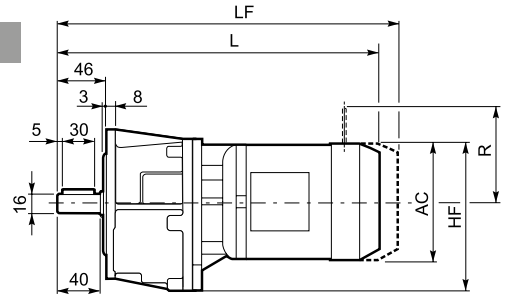
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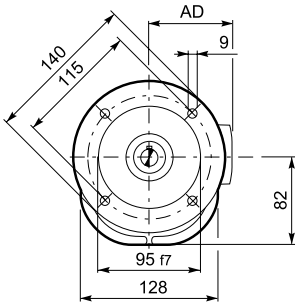






F



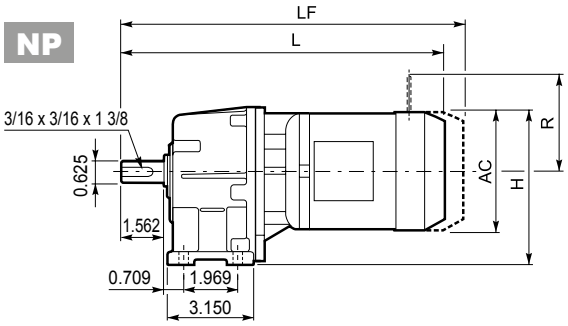


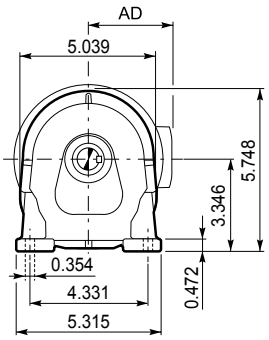
Dimensions are in mm

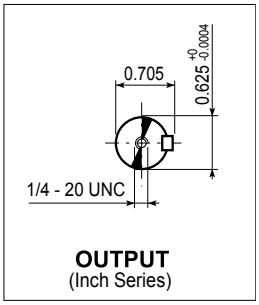
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 05 2	**S0**	**M0**	110	140	137	287	91	7	—	—	—	—	—	—
C 05 2	**S05**	**M05**	121	145.5	142.5	332	95	8	398	10	96	122	116	95
C 05 2	**S1**	**M1**	138	154	151	360.5	108	11	423	13	103	135	124	108

C 05...M

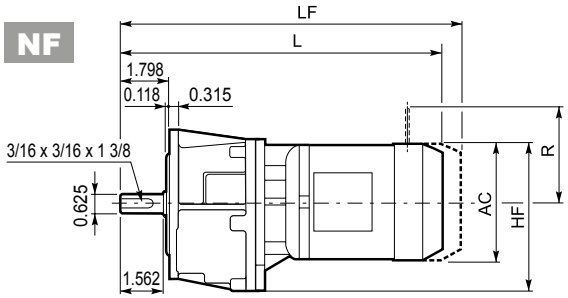
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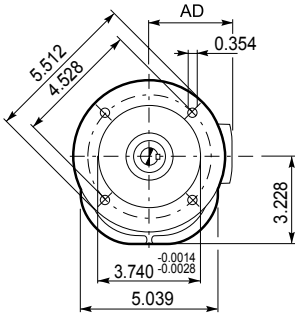






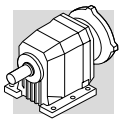
NF





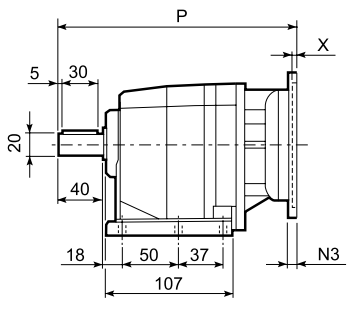
Dimensions are in Inch except when shown in *italic [mm]*

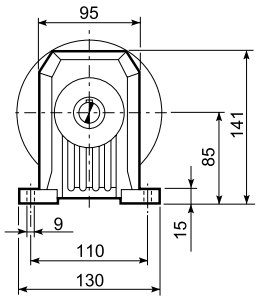
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 05 2	**S0**	**M0**	4.331	5.512	5.394	11.287	3.583	15	—	—	—	—	—	—
C 05 2	**S05**	**M05**	4.764	5.728	5.610	13.058	3.740	18	15.657	22	3.780	4.803	4.567	3.740
C 05 2	**S1**	**M1**	5.433	6.063	5.945	14.180	4.252	24	16.641	29	4.055	5.315	4.882	4.252

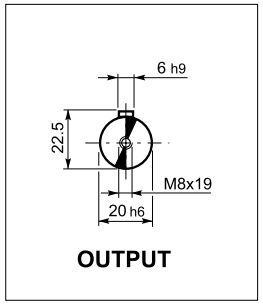


C 12...P (IEC)

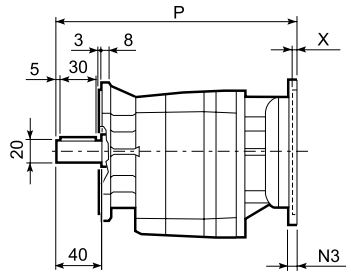
P

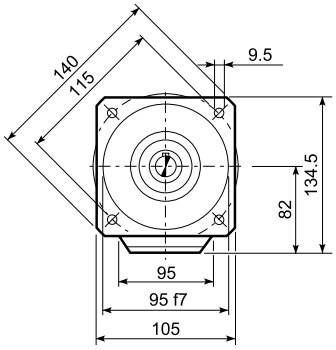


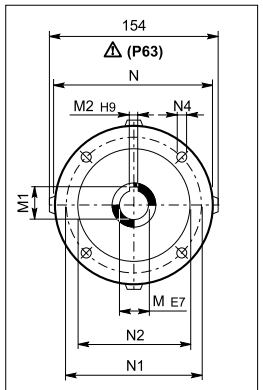




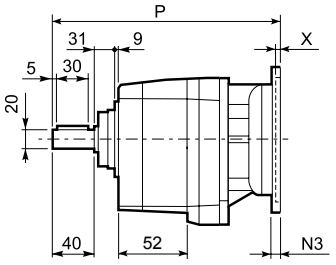
F

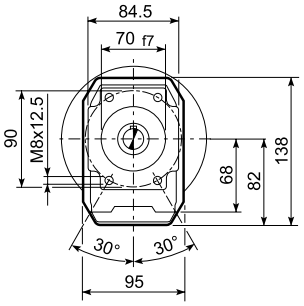




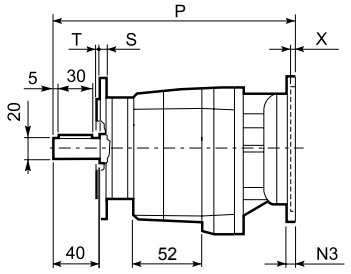


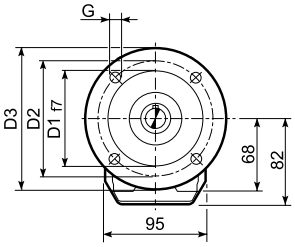
U





UF





C 12 2_U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

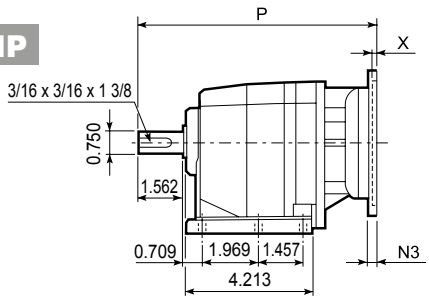
Dimensions are in mm

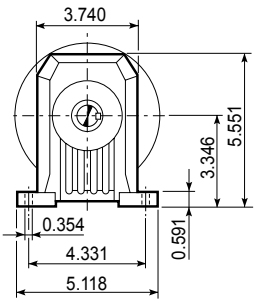
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 12 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	244.5	6
C 12 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	244.5	6
C 12 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	264	7
C 12 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	264	7
C 12 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	274	11
C 12 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	274	11

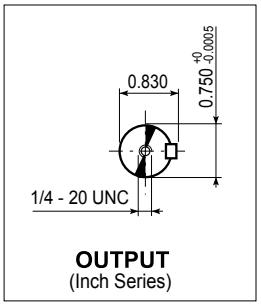
Metric output versions available also in combination with NEMA motor adaptor

C 12...N(NEMA Input)

NP

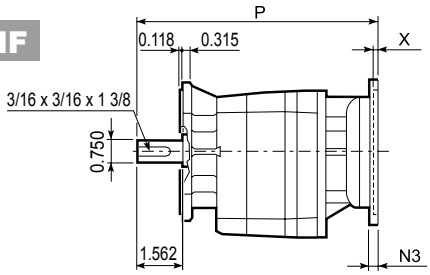


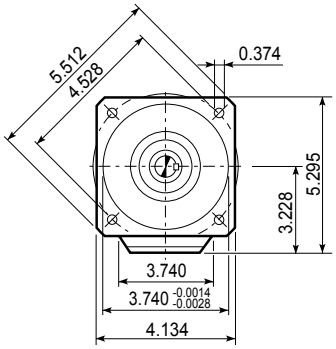


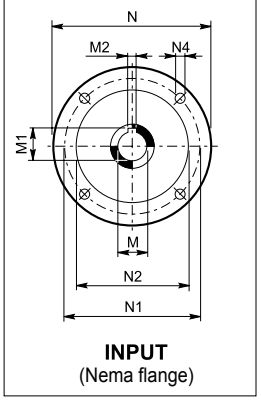


OUTPUT
(Inch Series)

NF

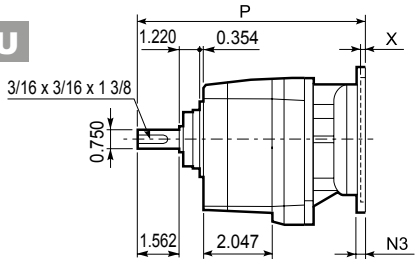


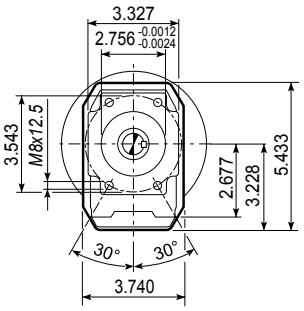




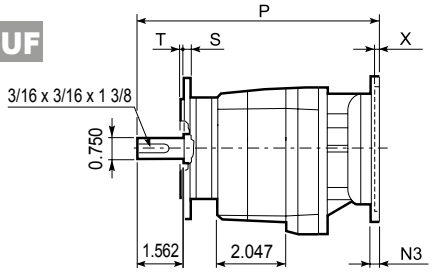
INPUT
(Nema flange)

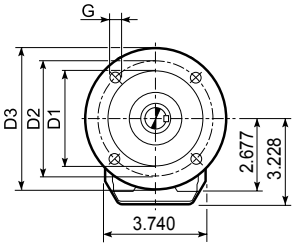
NU





NUF



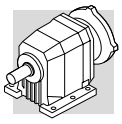


C 12 2_NU						
	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394

Dimensions are in Inch except when shown in *italic [mm]*

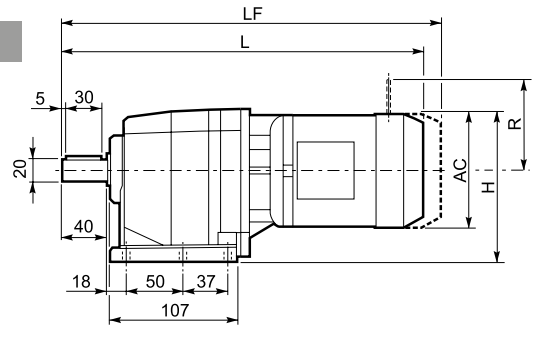
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 12 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.401	13
C 12 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.401	15
C 12 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	11.228	24

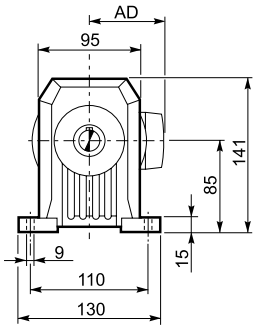
Imperial output versions available also in combination with IEC motor adaptor

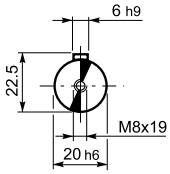


C 12...M/ME/MX

P

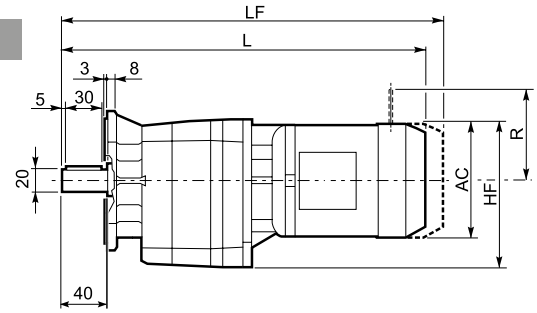


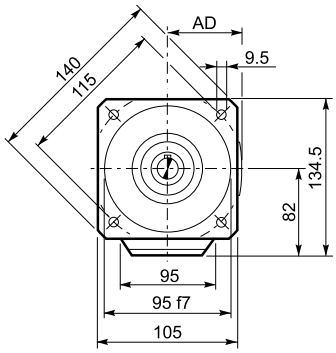




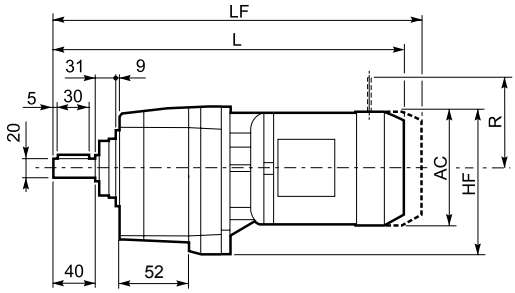
OUTPUT

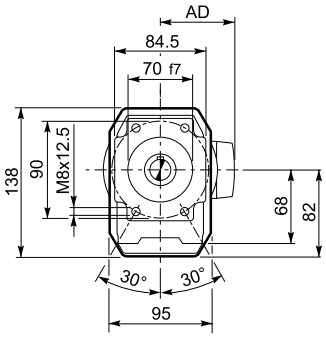
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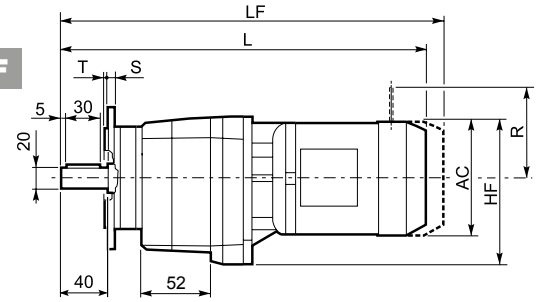


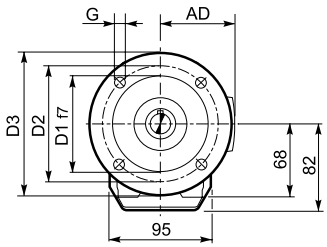
U





UF

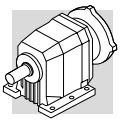




C 12 2_U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

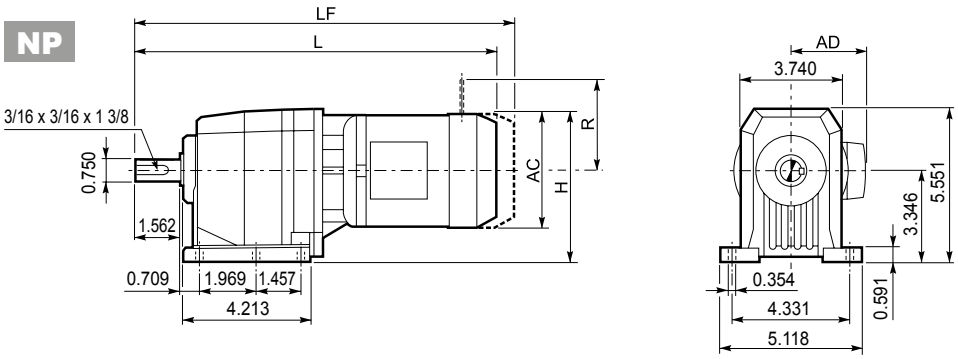
Dimensions are in mm

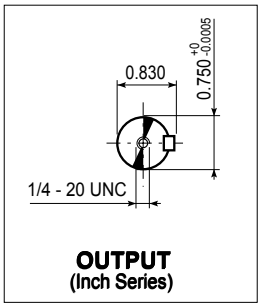
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 12 2	S05	M05	121	145.5	142.5	370.5	95	9	436.5	10	96	122	116	95
C 12 2	S05	ME05	121	145.5	142.5	370.5	95	9	436.5	10	96	119	116	119
C 12 2	S1	M1	138	154	151	404.5	108	11	460.5	13	103	135	124	108
C 12 2	S1	ME1	138	154	151	404.5	108	11.4	460.5	13	103	135	124	135
C 12 2	S2	M2S	156	163	160	428.5	119	15	498.5	18	129	146	134	119
C 12 2	S2	ME2S	156	163	160	428.5	119	18	498.5	21.9	129	143	134	143
C 12 2	S2	MX2S	156	163	160	472.5	119	20.1	544	19.9	129	143	134	143
C 12 2	S3	ME3S	195	182.5	179.5	471.5	142	21.5	552	24	160	155	160	155
C 12 2	S3	MX3S	195	182.5	179.5	503.5	142	24.5	581	27	160	155	160	155
C 12 2	S3	ME3L	195	182.5	179.5	503.5	142	22	579	28	160	155	160	155
C 12 2	S3	MX3L	195	182.5	179.5	547.5	142	28	623	36	160	155	160	155



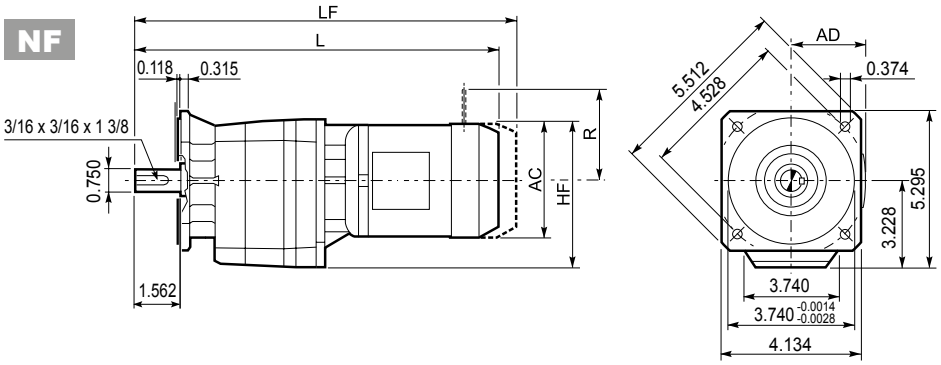
C 12...M/ME/MX

NP

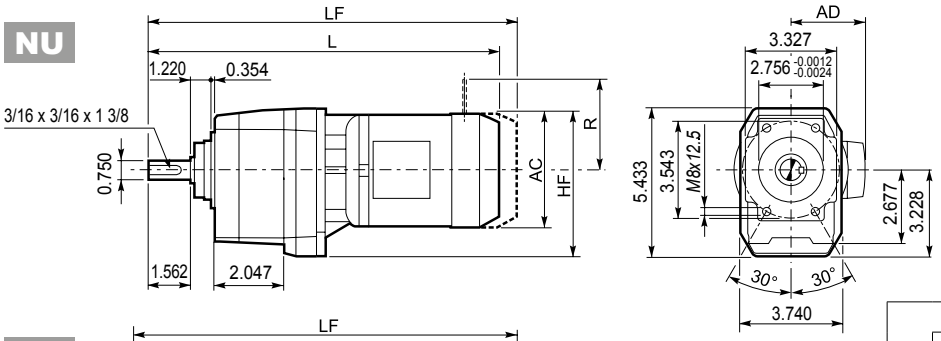




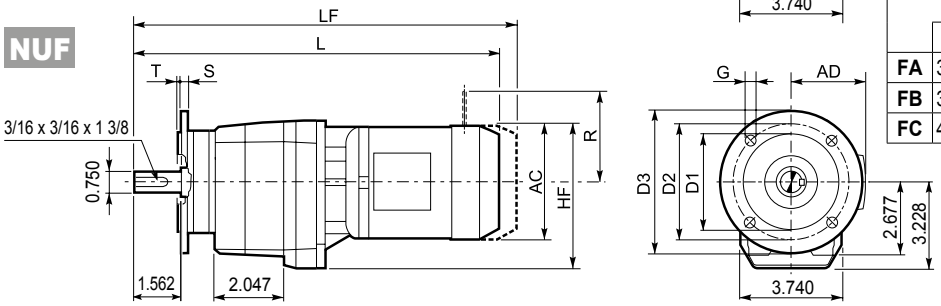
NF



NU



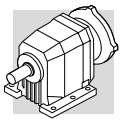
NUF



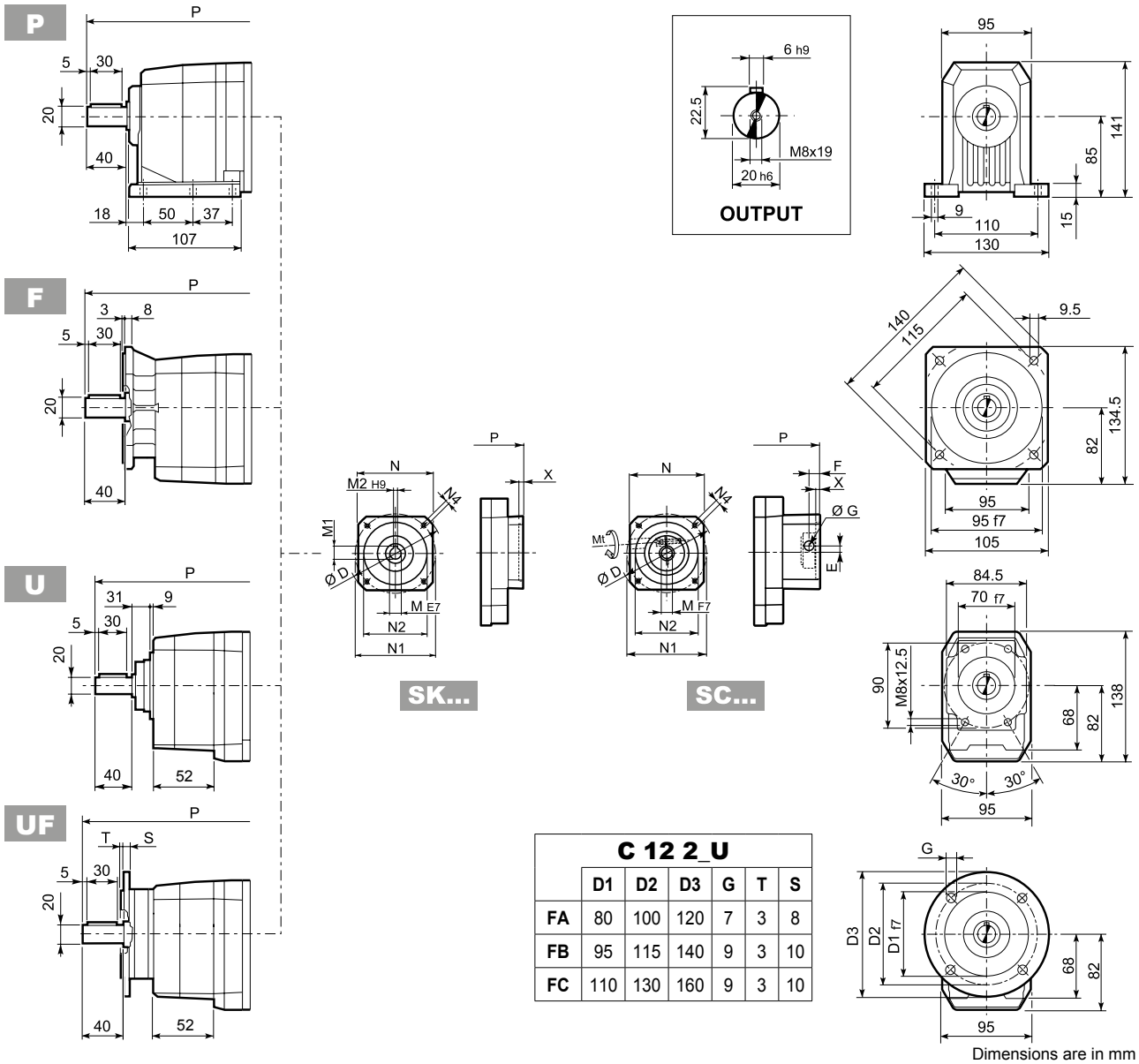
C 12 2_NU						
	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394

Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 12 2	S05	M05	4.764	5.728	5.610	14.574	3.740	20	17.172	22	3.780	4.803	4.567	3.740
C 12 2	S1	M1	5.433	6.063	5.945	15.913	4.252	24	18.117	29	4.055	5.315	4.882	4.252
C 12 2	S2	M2S	6.142	6.417	6.299	16.857	4.685	33	19.613	40	5.079	5.748	5.276	4.685
C 12 2	S2	ME2S	6.142	6.417	6.299	16.857	4.685	33	—	—	—	—	—	—
C 12 2	S2	MX2S	6.142	6.417	6.299	18.602	4.685	44	—	—	—	—	—	—
C 12 2	S3	ME3S	7.677	7.185	7.067	18.550	5.591	47	—	—	—	—	—	—
C 12 2	S3	MX3S	7.677	7.185	7.067	19.823	5.591	54	—	—	—	—	—	—
C 12 2	S3	ME3L	7.677	7.185	7.067	19.810	5.591	49	—	—	—	—	—	—
C 12 2	S3	MX3L	7.677	7.185	7.067	21.555	5.591	62	—	—	—	—	—	—



C 12...SK / SC

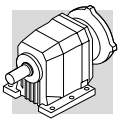


C 12 2_U	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

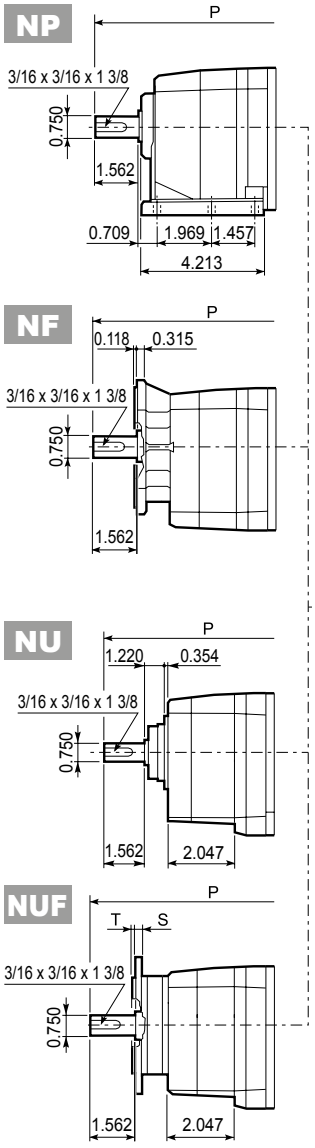
Dimensions are in mm

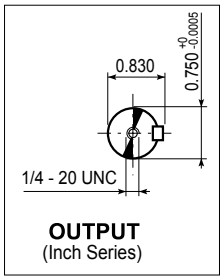
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
C 12 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	216	6
C 12 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	223	5
C 12 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	223	5
C 12 2	SK80C	120	19	21.8	6	96	100	80	M6x12	4	264	7
C 12 2	SK95A	130	14	16.3	5	102	115	95	M8x12	4	264	6
C 12 2	SK95B	130	19	21.8	6	102	115	95	M8x12	4	264	7
C 12 2	SK95C	130	24	27.3	8	102	115	95	M8x12	4	264	7
C 12 2	SK110A	150	19	21.8	6	120	130	110	M8x12	5	264	7
C 12 2	SK110B	150	24	27.3	8	120	130	110	M8x12	5	264	7

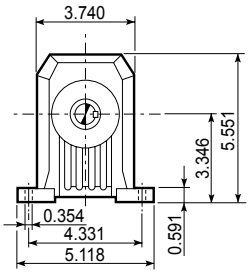
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
C 12 2	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	243	7
C 12 2	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	243	6
C 12 2	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	243	6
C 12 2	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	287.5	8
C 12 2	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	287.5	7
C 12 2	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	287.5	8
C 12 2	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	287.5	8
C 12 2	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	287.5	10
C 12 2	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	287.5	10

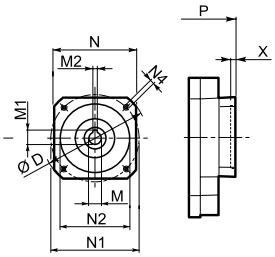


C 12...SK / SC

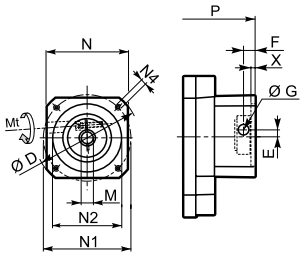




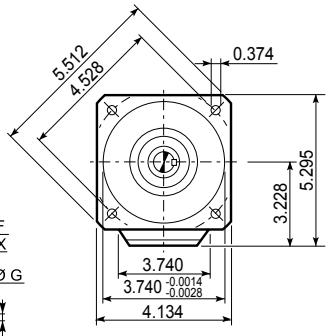


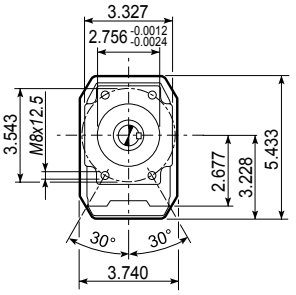


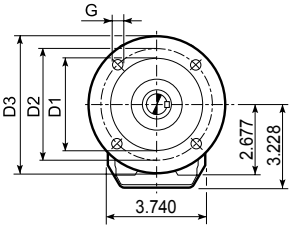
SK...



SC...





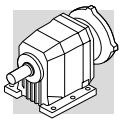


C 12 2_NU	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394

Dimensions are in Inch except when shown in *italic [mm]*

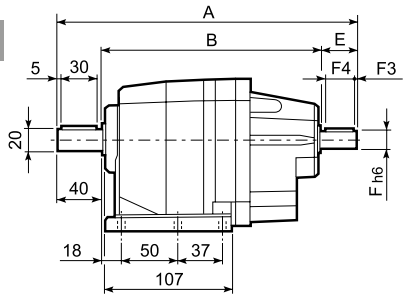
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
C 12 2	SK60A	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	8.491	13
C 12 2	SK60B	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	8.767	11
C 12 2	SK80A	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	8.767	11
C 12 2	SK80C	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	10.381	15
C 12 2	SK95A	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	10.381	13
C 12 2	SK95B	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	10.381	15
C 12 2	SK95C	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	10.381	15
C 12 2	SK110A	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	10.381	15
C 12 2	SK110B	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	10.381	15

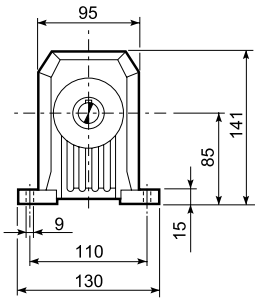
			Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
C 12 2	SC60A	M6	133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	9.554	15
C 12 2	SC60B	M6	133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	9.554	13
C 12 2	SC80A	M6	133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	9.554	13
C 12 2	SC80C	M6	133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	11.306	18
C 12 2	SC95A	M6	133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	11.306	15
C 12 2	SC95B	M6	133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	11.306	18
C 12 2	SC95C	M6	133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	11.306	18
C 12 2	SC110A	M6	133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	11.306	22
C 12 2	SC110B	M6	133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	11.306	22

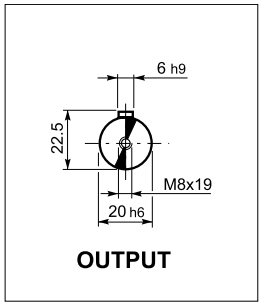


C 12...HS

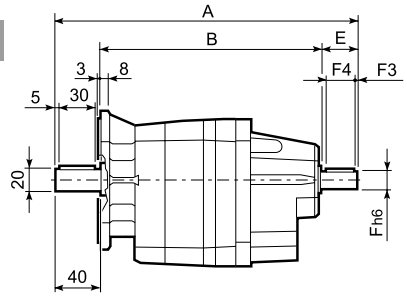
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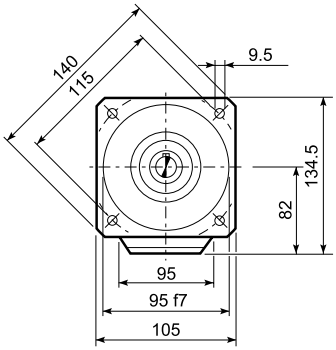


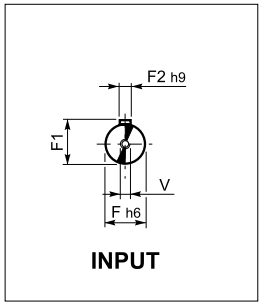




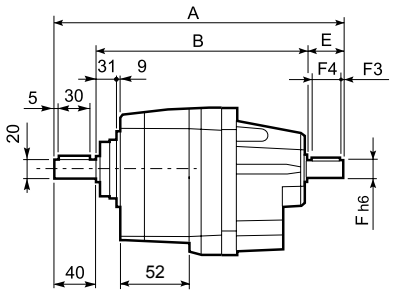
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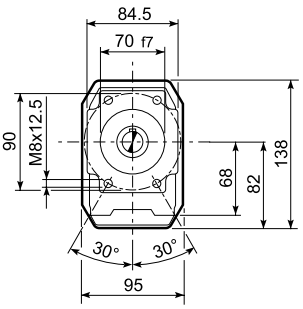




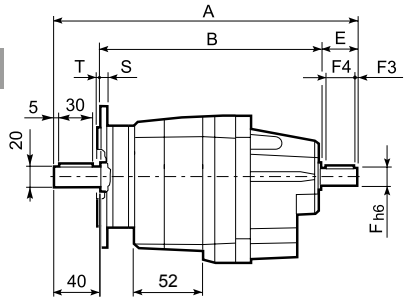


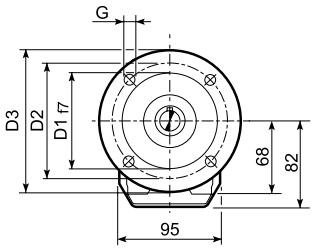
U





UF





C 12 2_U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

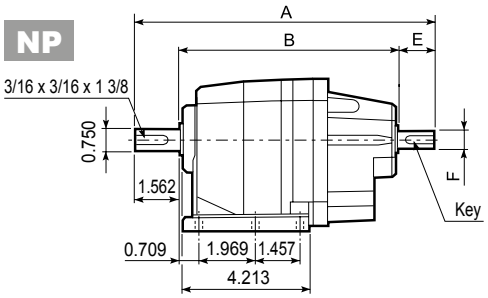
Dimensions are in mm

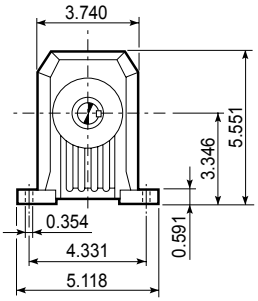
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 12 2	HS	251.5	171.5	40	16	18	5	2.5	35	M6x16	7.8

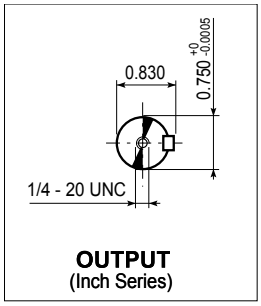
Metric output versions available also in combination with NHS input

C 12...NHS

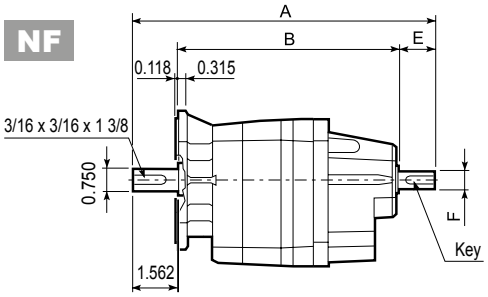
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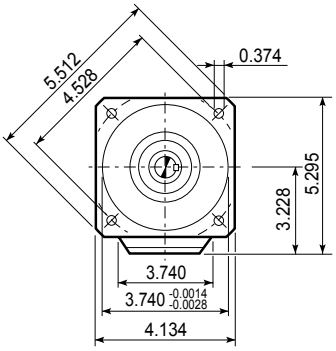


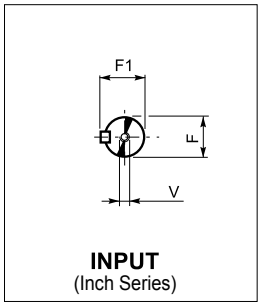




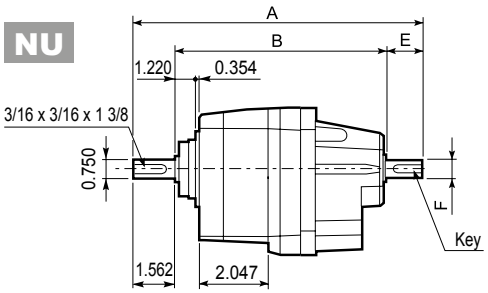
NF

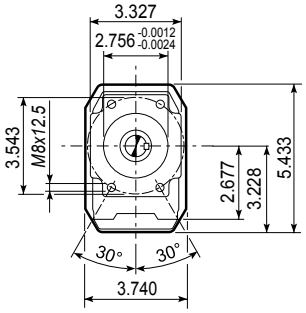




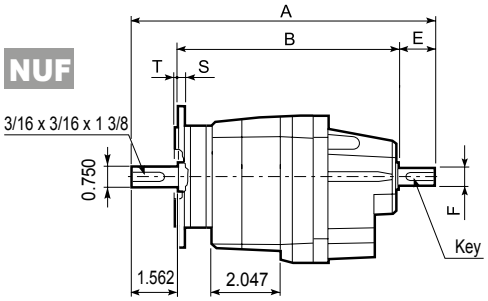


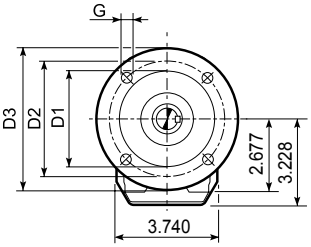
NU





NUF



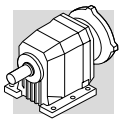


C 12 2_NU						
	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394

Dimensions are in Inch except when shown in *italic [mm]*

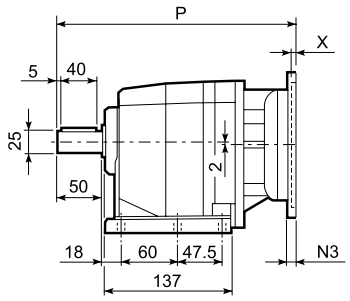
		A	B	E	F	F1	V	Key	lbs
C 12 2	**NHS**	9.889	6.752	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17.196

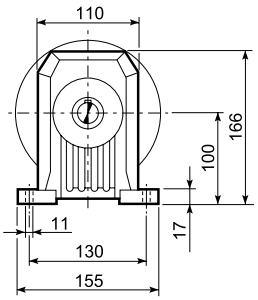
Imperial output versions available also in combination with HS input

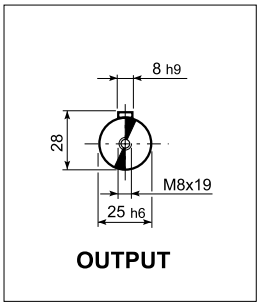


C 22...P(IEC)

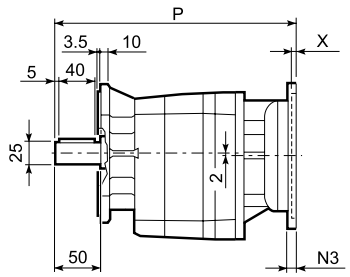
P

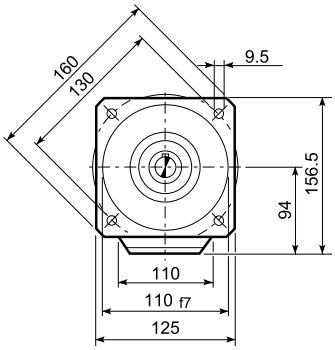


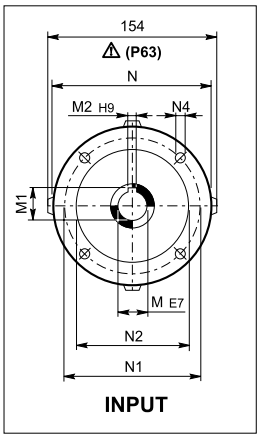




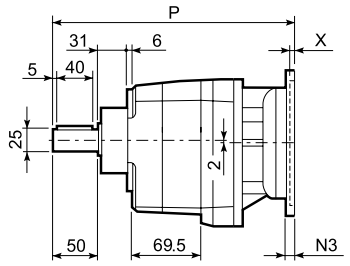
F

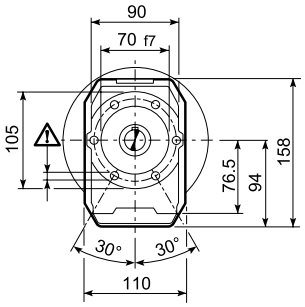


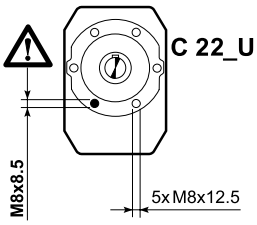




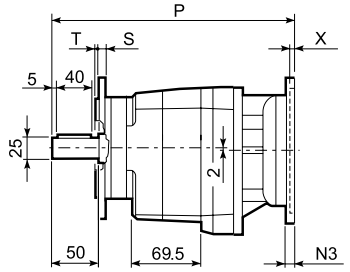
U

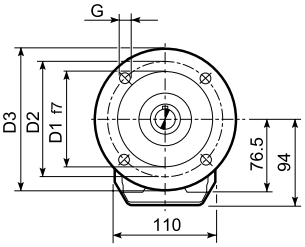






UF



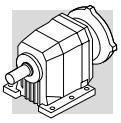


C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

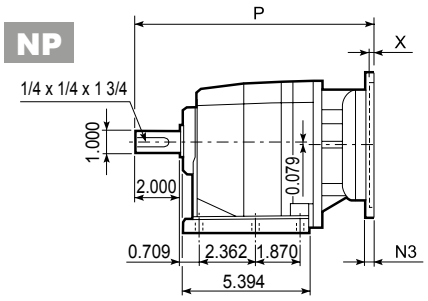
Dimensions are in mm

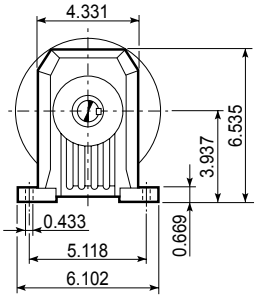
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 22 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	273	7
C 22 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	273	7
C 22 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	292.5	8
C 22 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	292.5	8
C 22 2	**P100**	28	31.3	8	250	215	180	—	M12X16	4.5	302.5	12
C 22 2	**P112**	28	31.3	8	250	215	180	—	M12X16	4.5	302.5	12
C 22 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	328.5	8
C 22 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	328.5	8
C 22 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	348	9
C 22 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	348	9
C 22 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	358	13
C 22 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	358	13

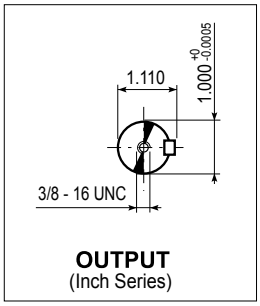
Metric output versions available also in combination with NEMA motor adaptor

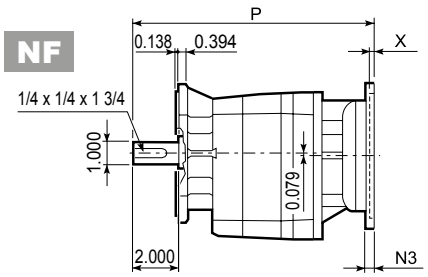


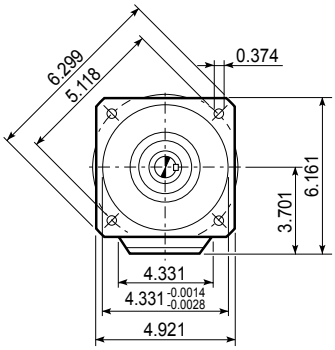
C 22...N(NEMA Input)

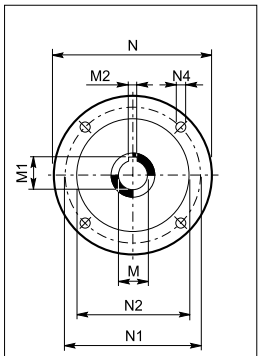


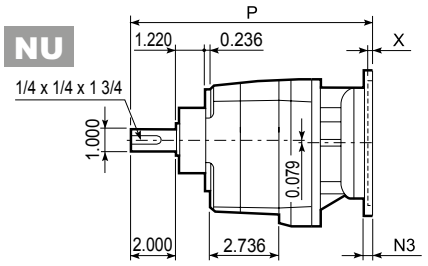


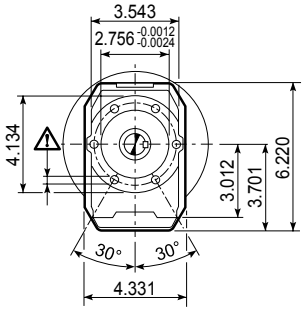


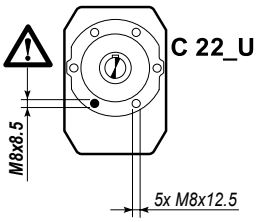


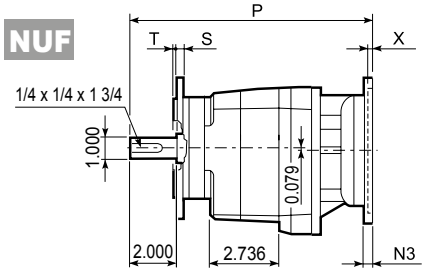


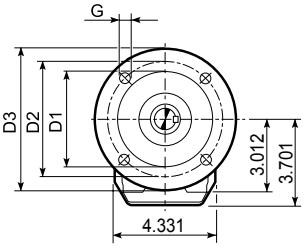










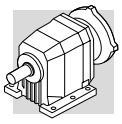


C 22_NU						
	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

Dimensions are in Inch except when shown in *italic [mm]*

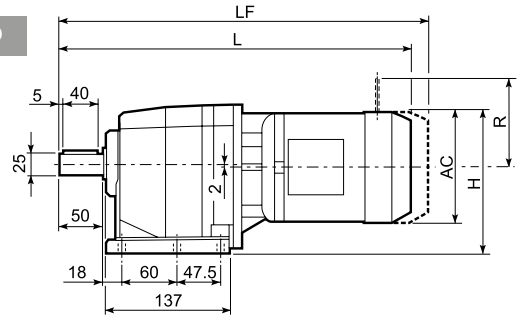
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 22 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.567	15
C 22 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.567	18
C 22 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	12.394	26
C 22 3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.752	18
C 22 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.752	20
C 22 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.579	29

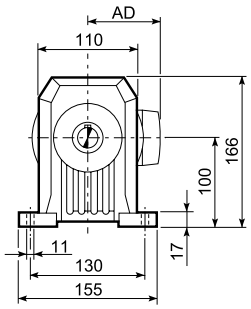
Imperial output versions available also in combination with IEC motor adaptor

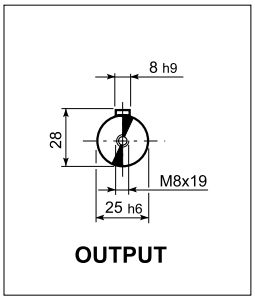


C 22...M/ME/MX

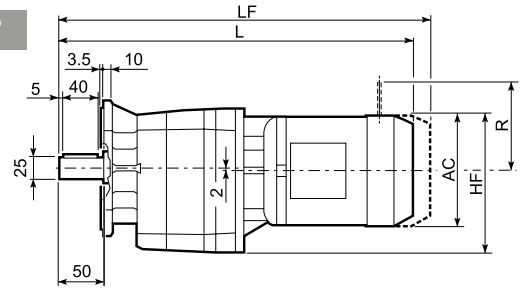
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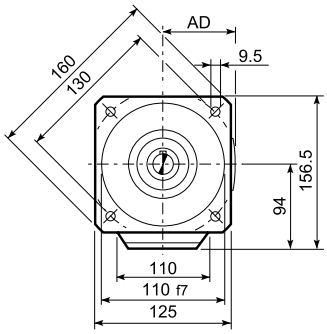




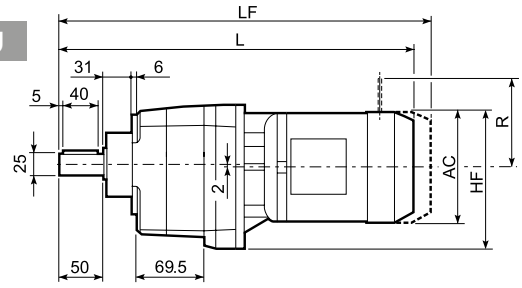


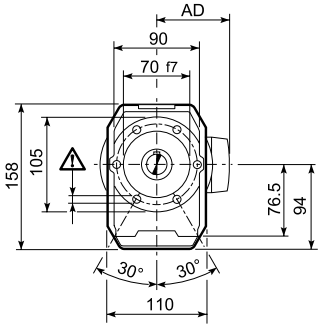
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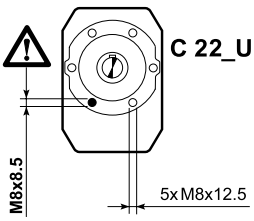




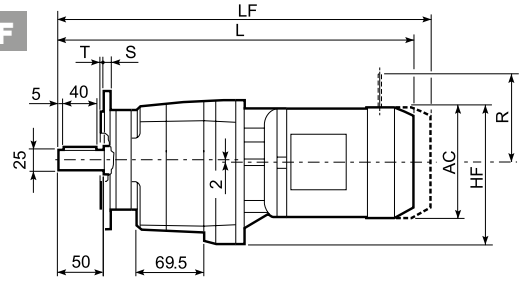
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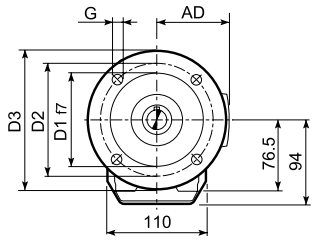






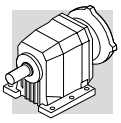
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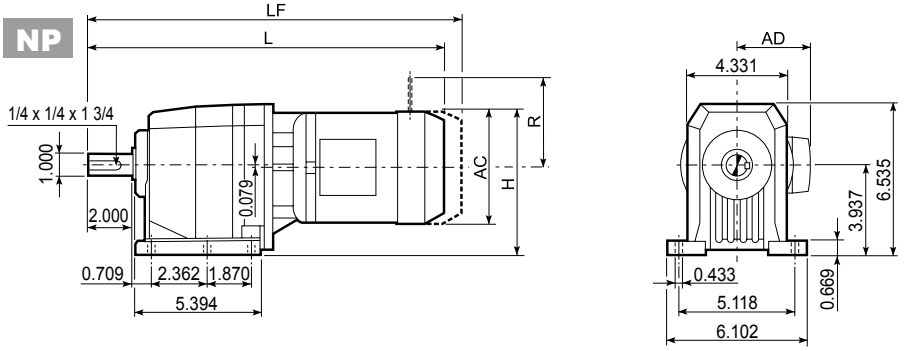
C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

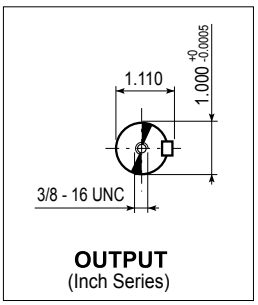
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
			Dimensions are in mm											
C 22 2	S05	M05	121	160.5	154.5	399	95	8	465	10	96	119	116	95
C 22 2	S05	ME05	121	160.5	154.5	399	95	8	465	10	96	119	116	119
C 22 2	S1	M1	138	169	163	428	108	11	489	14	103	135	124	108
C 22 2	S1	ME1	138	169	163	428	108	11.4	489	14	103	135	124	135
C 22 2	S2	M2S	156	178	170	456	119	16	527	19	129	146	134	119
C 22 2	S2	ME2S	156	178	170	456	119	17.6	527	20.6	129	143	134	143
C 22 2	S2	MX2S	156	178	170	500	119	21.1	552	24.4	129	143	134	143
C 22 2	S3	ME3S	195	197.5	191.5	500	142	22.5	560	22.1	160	155	160	155
C 22 2	S3	MX3S	195	197.5	191.5	532	142	25.5	589	25.1	160	155	160	155
C 22 2	S3	ME3L	195	197.5	191.5	532	142	27	587	26.1	160	155	160	155
C 22 2	S3	MX3L	195	197.5	191.5	576	142	33	631	34	160	155	160	155
C 22 3	S05	M05	121	160.5	154.5	454.5	95	11	520.5	12	96	122	116	95
C 22 3	S05	ME05	121	160.5	154.5	454.5	95	11	527.5	12	96	119	116	119
C 22 3	S1	M1	138	169	163	483.5	108	13	544.5	15	103	135	124	108
C 22 3	S1	ME1	138	169	163	483.5	108	13	544.5	15	103	135	124	135
C 22 3	S2	ME2S	156	178	170	511.5	119	18	561.5	20.3	129	143	134	143
C 22 3	S2	MX2S	156	178	170	555.5	119	23.1	607.5	24.1	129	143	134	143
C 22 3	S3	ME3S	195	197.5	191.5	555.5	142	24.5	615.5	25.1	160	155	160	155
C 22 3	S3	MX3S	195	197.5	191.5	587.5	142	27.5	644.5	28.1	160	155	160	155
C 22 3	S3	ME3L	195	197.5	191.5	587.5	142	29	642.5	29.1	160	155	160	155
C 22 3	S3	MX3L	195	197.5	191.5	631.5	142	35	686.5	37	160	155	160	155



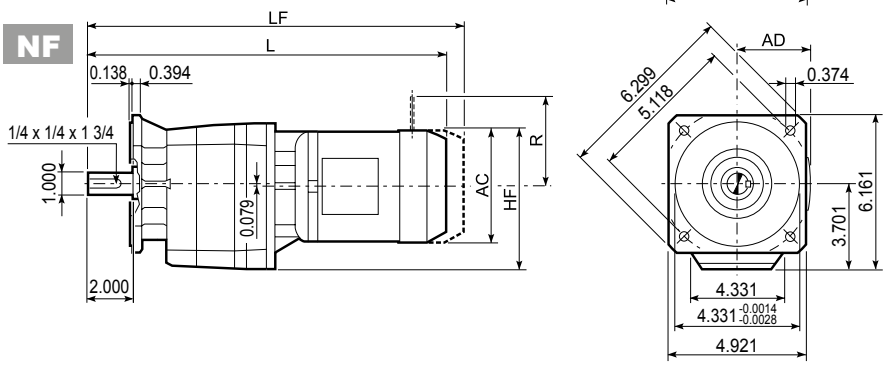
C 22...M/ME/MX

NP

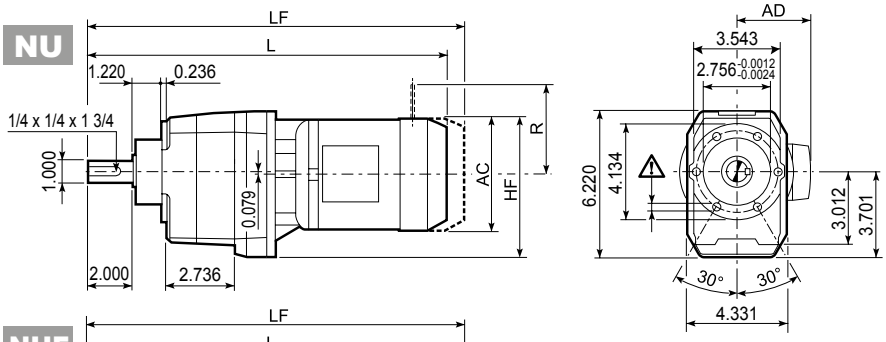


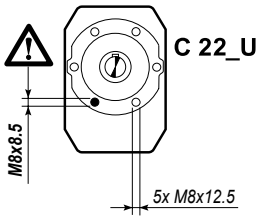


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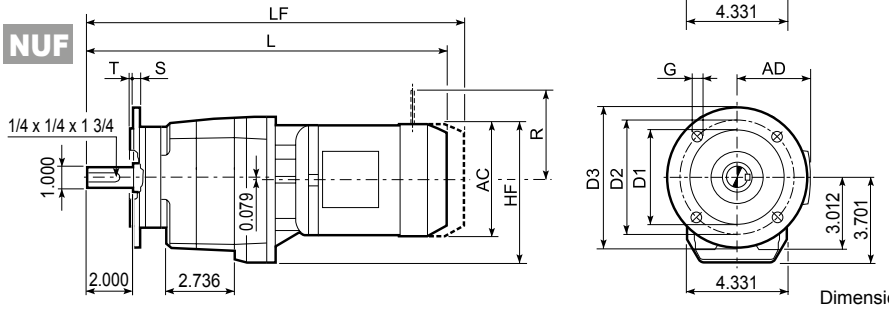


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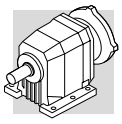
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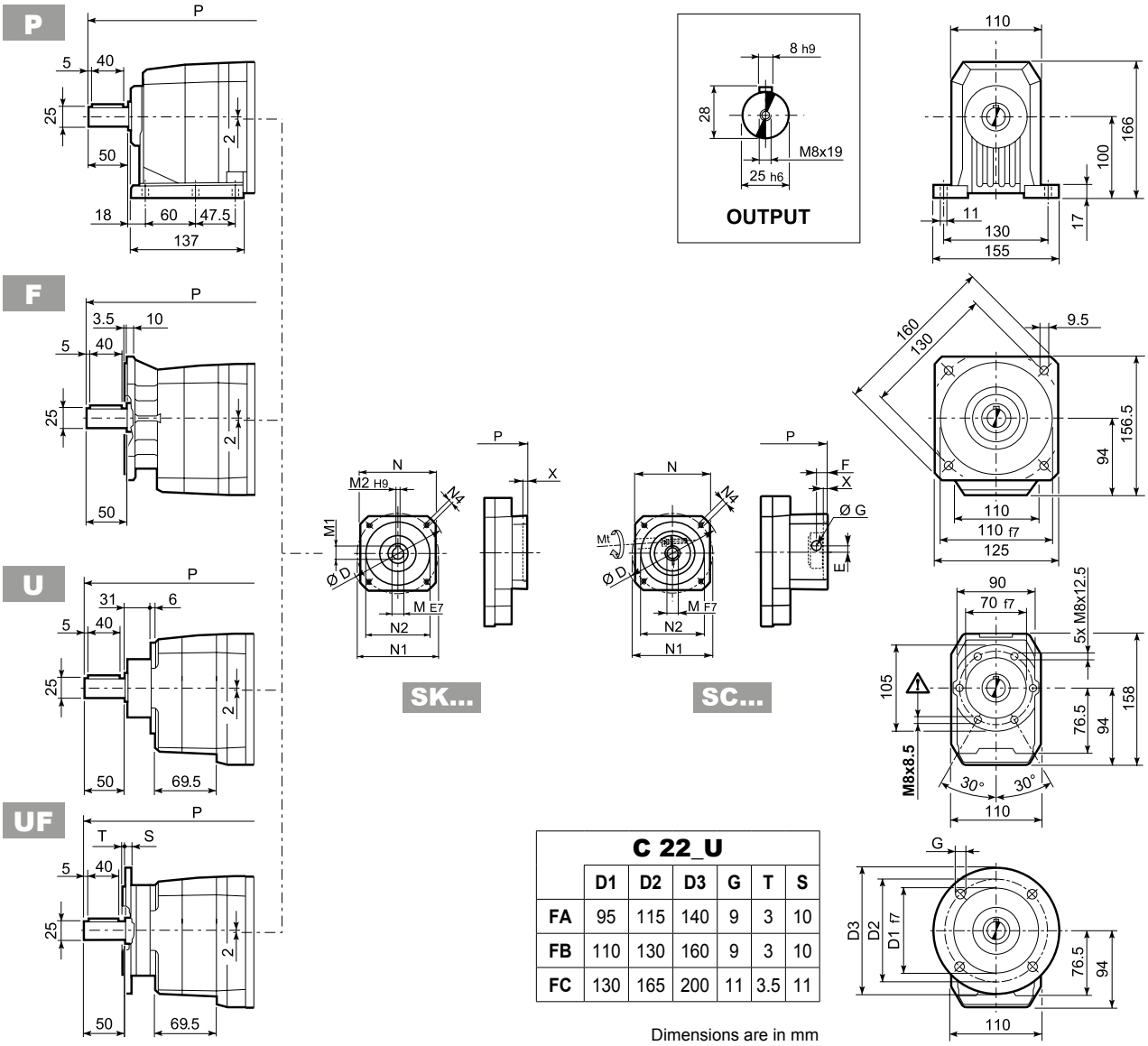
C 22_NU						
	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

Dimensions are in Inch except when shown in *italic [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 22 2	**S05**	**M05**	4.764	6.319	6.083	15.740	3.740	18	18.339	22	3.780	4.685	4.567	3.740
C 22 2	**S1**	**M1**	5.433	6.654	6.417	16.882	4.252	24	19.283	31	4.055	5.315	4.882	4.252
C 22 2	**S2**	**M2S**	6.142	7.008	6.693	17.984	4.685	35	20.780	42	5.079	5.748	5.276	4.685
C 22 2	**S2**	**ME2S**	6.142	7.008	6.693	17.984	4.685	35	—	—	—	—	—	—
C 22 2	**S2**	**MX2S**	6.142	7.008	6.693	19.685	4.685	47	—	—	—	—	—	—
C 22 2	**S3**	**ME3S**	7.677	7.776	7.539	19.717	5.591	50	—	—	—	—	—	—
C 22 2	**S3**	**MX3S**	7.677	7.776	7.539	20.945	5.591	56	—	—	—	—	—	—
C 22 2	**S3**	**ME3L**	7.677	7.776	7.539	20.976	5.591	60	—	—	—	—	—	—
C 22 2	**S3**	**MX3L**	7.677	7.776	7.539	22.677	5.591	73	—	—	—	—	—	—
C 22 3	**S05**	**M05**	4.764	6.319	6.083	17.925	3.740	24	20.524	26	3.780	4.803	4.567	3.740
C 22 3	**S1**	**M1**	5.433	6.654	6.417	19.067	4.252	29	21.469	33	4.055	5.315	4.882	4.252
C 22 3	**S2**	**ME2S**	6.142	7.008	6.693	20.169	4.685	40	—	—	—	—	—	—
C 22 3	**S2**	**MX2S**	6.142	7.008	6.693	21.870	4.685	51	—	—	—	—	—	—
C 22 3	**S3**	**ME3S**	7.677	7.776	7.539	21.902	5.591	54	—	—	—	—	—	—
C 22 3	**S3**	**MX3S**	7.677	7.776	7.539	23.130	5.591	61	—	—	—	—	—	—
C 22 3	**S3**	**ME3L**	7.677	7.776	7.539	23.161	5.591	64	—	—	—	—	—	—
C 22 3	**S3**	**MX3L**	7.677	7.776	7.539	24.862	5.591	77	—	—	—	—	—	—



C 22...SK / SC



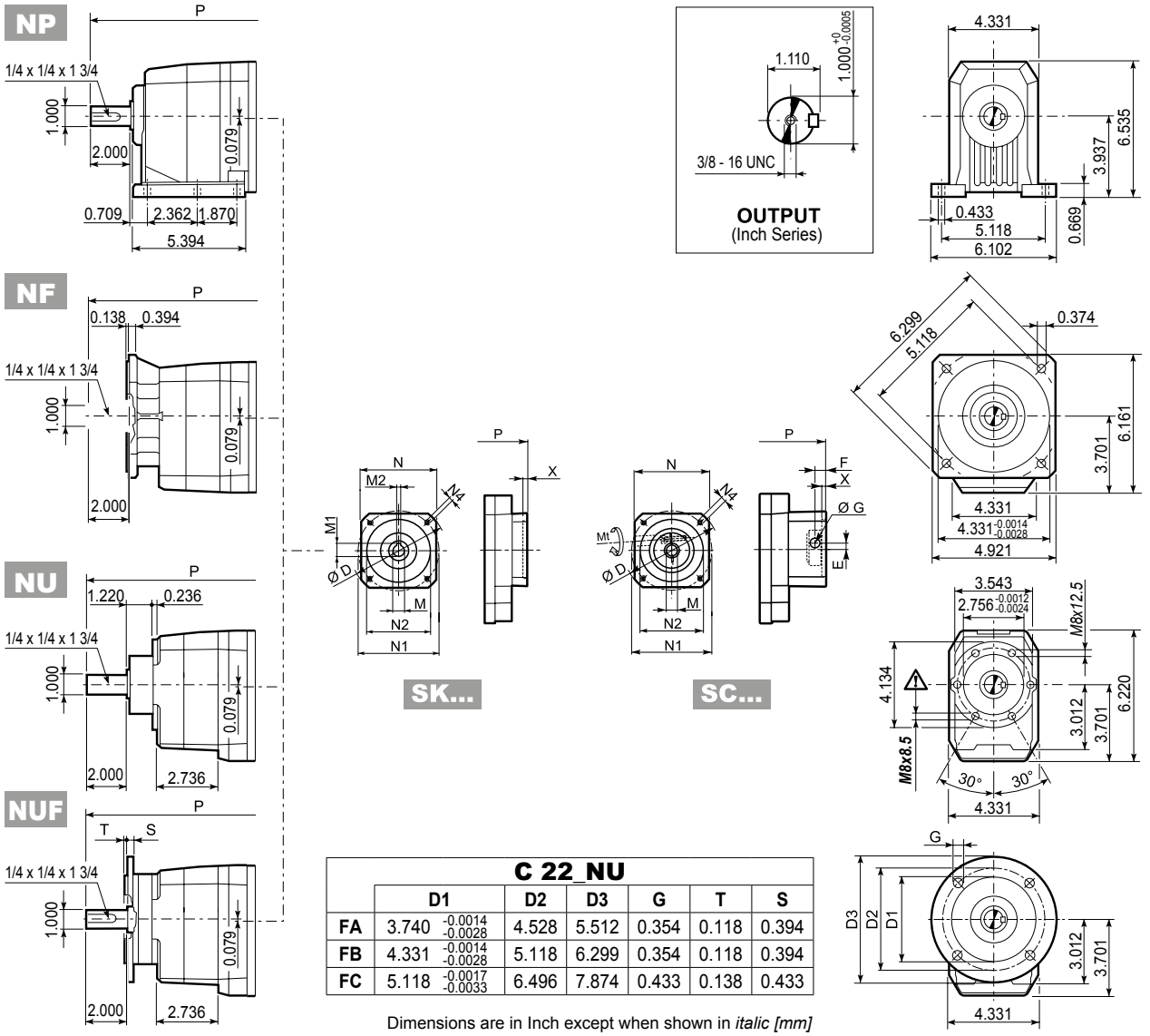
C 22_U	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 22 2/3	SK60A*	102	11	12.8	4	82	75	60	M5x10	3.5	224.5	300	6/9
C 22 2/3	SK60B*	102	14	16.3	5	82	75	60	M5x10	4	251.5	307	7/8
C 22 2/3	SK80A*	115	14	16.3	5	90	100	80	M6x12	4	251.5	307	7/8
C 22 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	292.5	348	8/9
C 22 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	292.5	348	8/9
C 22 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	292.5	348	8/9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 22 2/3	SC60A*	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	271.5	327	7/8
C 22 2/3	SC60B*	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	271.5	327	8/9
C 22 2/3	SC80A*	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	271.5	327	8/9
C 22 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	316	371.5	9/10
C 22 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	316	371.5	10/11
C 22 2/3	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	316	371.5	10/11

* Contact our technical service department advising application data

C 22...SK / SC



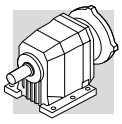
C 22_NU						
	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 22 2/3	SK60A*	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	8.870	11.843	13/20
C 22 2/3	SK60B*	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	9.933	12.118	15/18
C 22 2/3	SK80A*	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	9.933	12.118	15/18
C 22 2/3	SK80C	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK95A	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK95B	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK95C	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK110A	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	11.547	13.732	18/20
C 22 2/3	SK110B	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	11.547	13.732	18/20

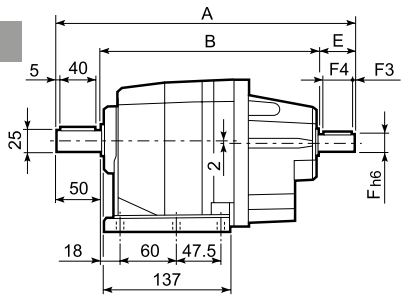
			Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 22 2/3	SC60A*	*M6*	133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	10.720	12.906	15/18
C 22 2/3	SC60B*	*M6*	133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	10.720	12.906	18/20
C 22 2/3	SC80A*	*M6*	133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	10.720	12.906	18/20
C 22 2/3	SC80C	*M6*	133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	12.472	14.657	20/22
C 22 2/3	SC95A	*M6*	133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	12.472	14.657	20/22
C 22 2/3	SC95B	*M6*	133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	12.472	14.657	20/22
C 22 2/3	SC95C	*M6*	133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	12.472	14.657	20/22
C 22 2/3	SC110A	*M6*	133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	12.472	14.657	22/24
C 22 2/3	SC110B	*M6*	133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	12.472	14.657	22/24

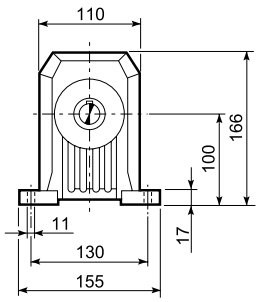
* Contact our technical service department advising application data

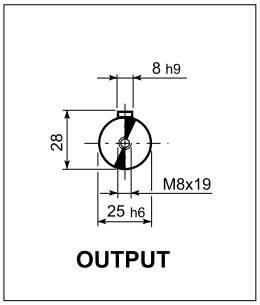


C 22...HS

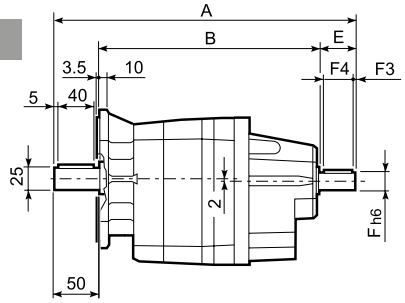
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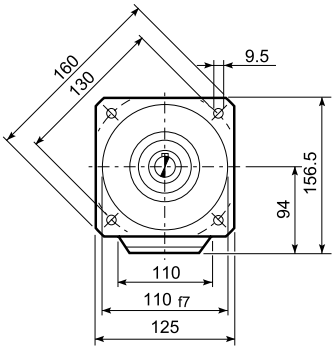


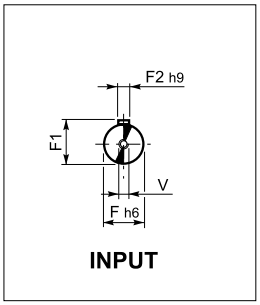




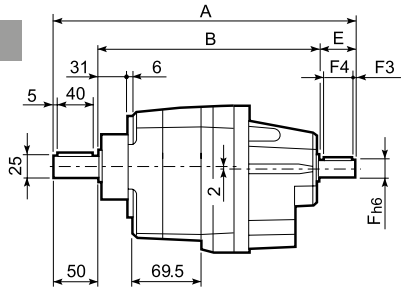
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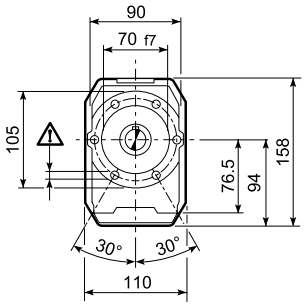


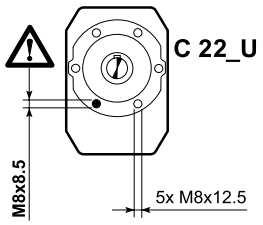




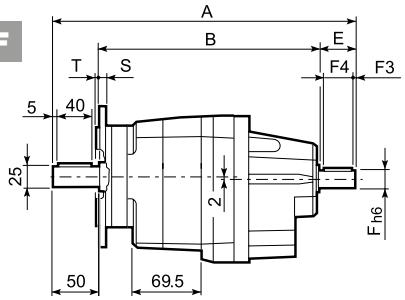
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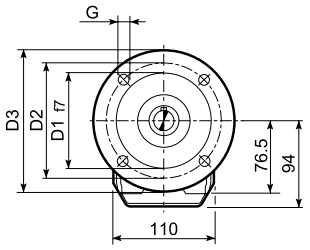






UF





C 22_U

	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

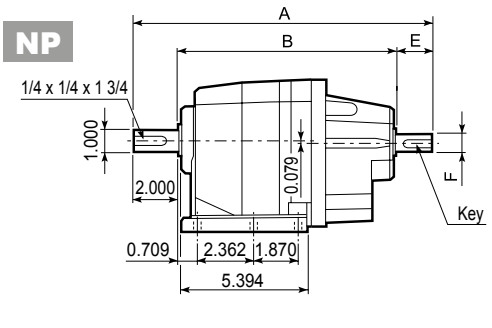
Dimensions are in mm

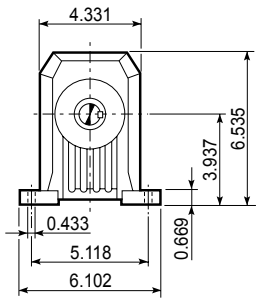
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 22 2	**HS**	323	233	40	19	21.5	6	2.5	35	M6x16	7.2
C 22 3		335.5	245.5	40	16	18	6	2.5	36	M6x16	7.5

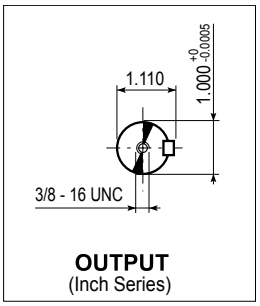
Metric output versions available also in combination with NHS input

C 22...NHS

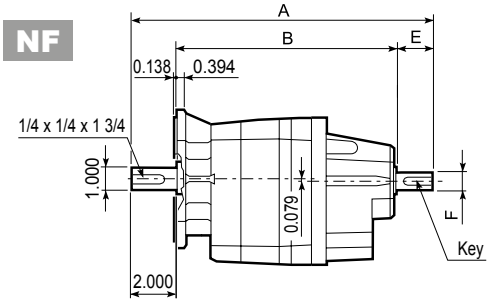
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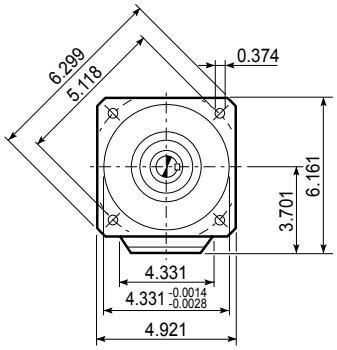


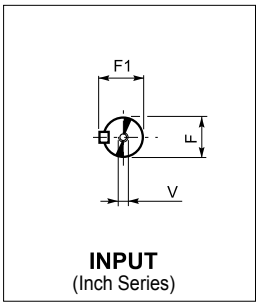




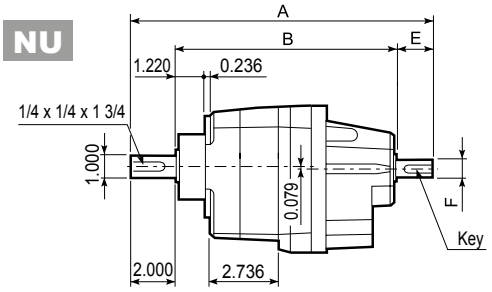
NF

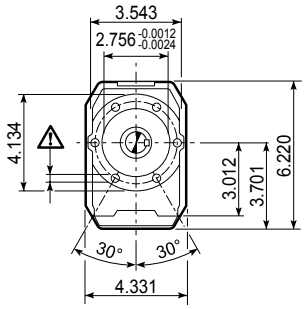


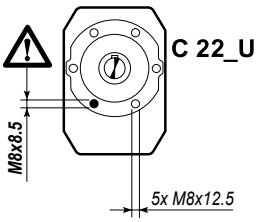




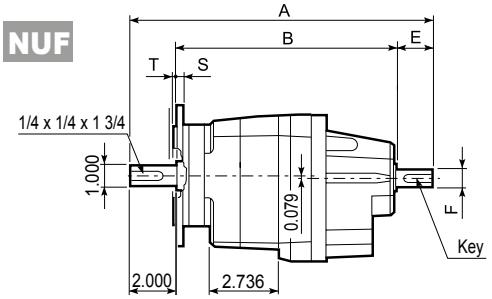
NU

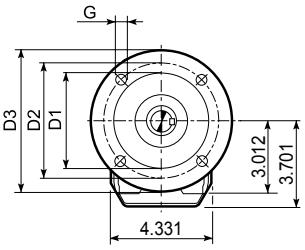






NUF



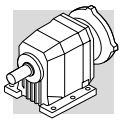


C 22_NU						
	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

Dimensions are in Inch except when shown in *italic [mm]*

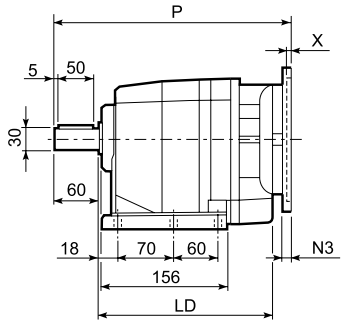
		A	B	E	F	F1	V	Key	lbs
C 22 2	NHS	12.748	9.173	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	16
C 22 3		13.240	9.665	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

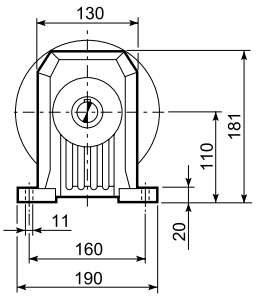
Imperial output versions available also in combination with HS input

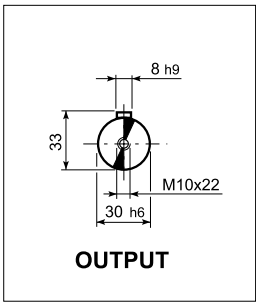


C 32...P(IEC)

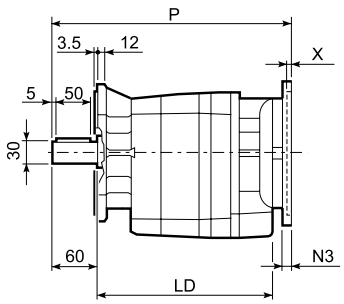
P

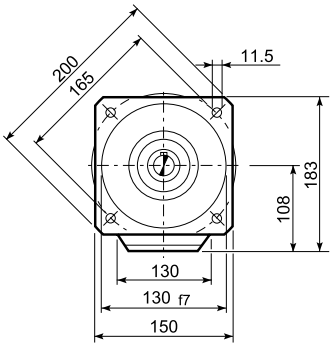


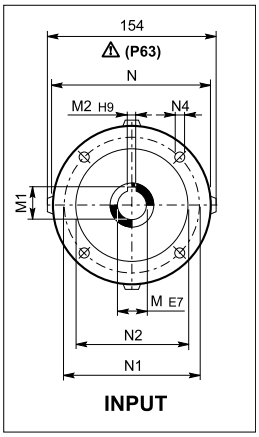




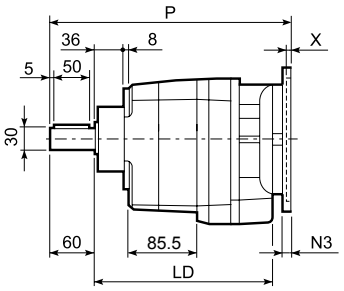
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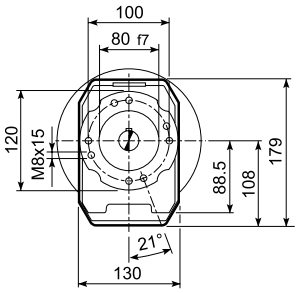




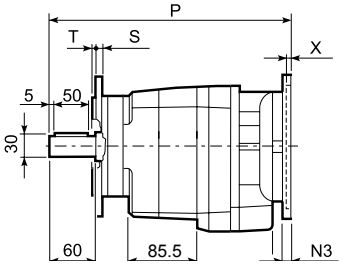


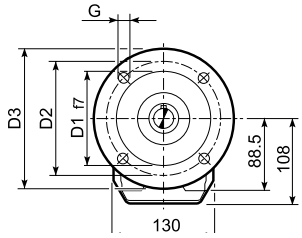
U





UF





C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

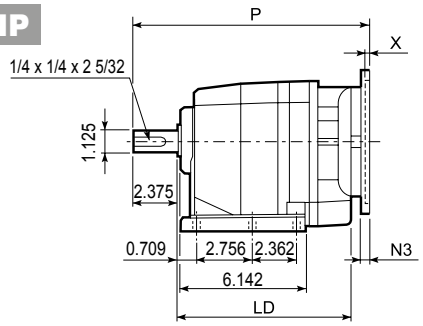
Dimensions are in mm

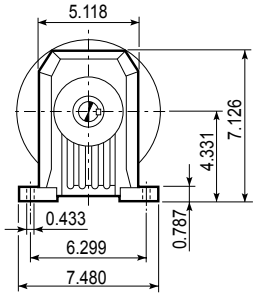
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 32 2	**P63**	217.5	11	12.8	4	140	115	95	—	M8x19	4	307.5	9
C 32 2	**P71**	217.5	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	9
C 32 2	**P80**	227.5	19	21.8	6	200	165	130	—	M10x14.5	4	327	10
C 32 2	**P90**	227.5	24	27.3	8	200	165	130	—	M10x14.5	4	327	10
C 32 2	**P100**	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	**P112**	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	**P132**	—	38	41.3	10	300	265	230	16	14	5	373	17
C 32 3	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	365	10
C 32 3	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	365	10
C 32 3	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	384.5	11
C 32 3	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	384.5	11
C 32 3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15
C 32 3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15

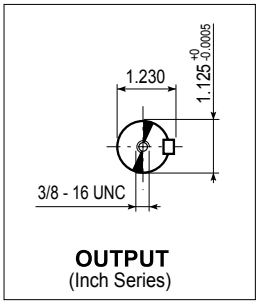
Metric output versions available also in combination with NEMA motor adaptor

C 32...N(NEMA Input)

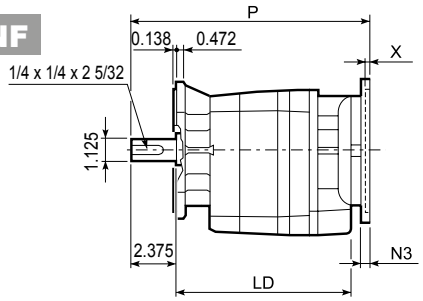
NP

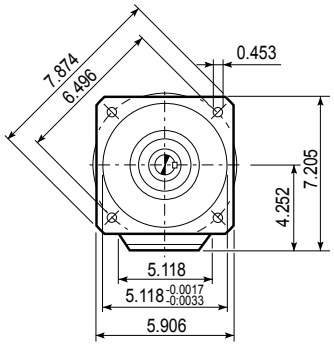


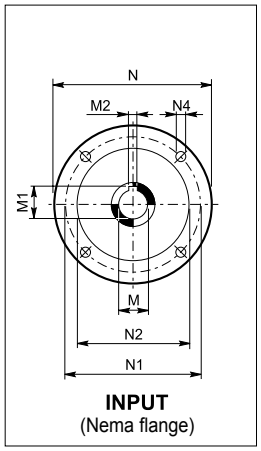




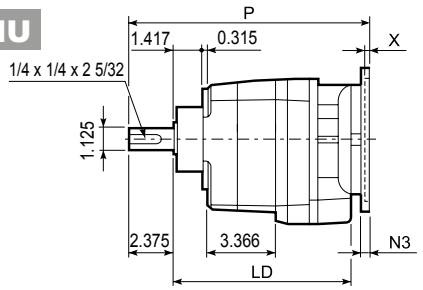
NF

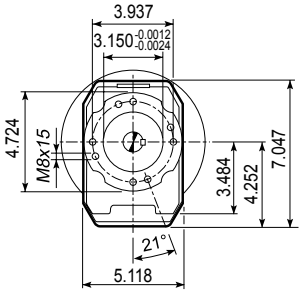




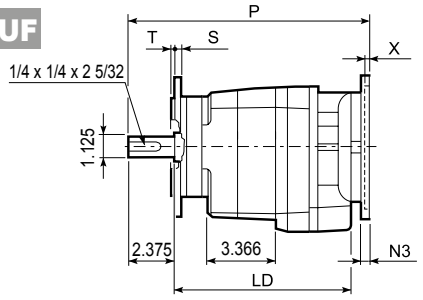


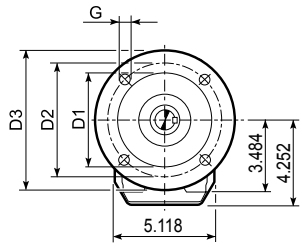
NU





NUF



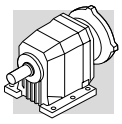


C 32_NU						
	D1	D2	D3	G	T	S
FA	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensions are in Inch except when shown in *italic [mm]*

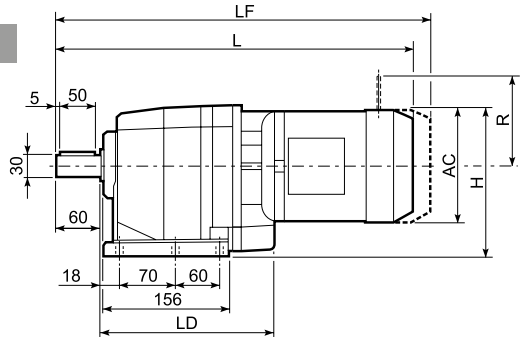
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 32 2	**N56C**	8.563	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.906	20
C 32 2	**N140TC**	8.563	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.906	22
C 32 2	**N180TC**	8.957	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	13.733	31
C 32 2	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	14.875	37
C 32 3	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.170	22
C 32 3	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.170	24
C 32 3	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	15.997	33

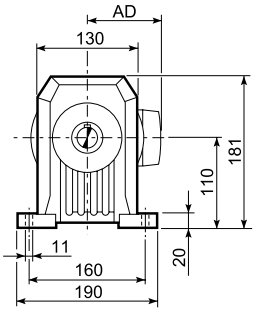
Imperial output versions available also in combination with IEC motor adaptor

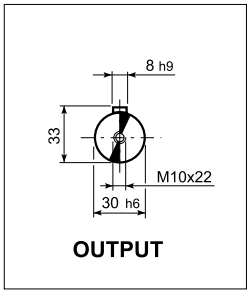


C 32...M/ME/MX

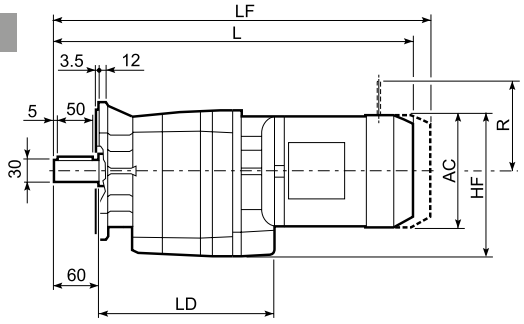
P

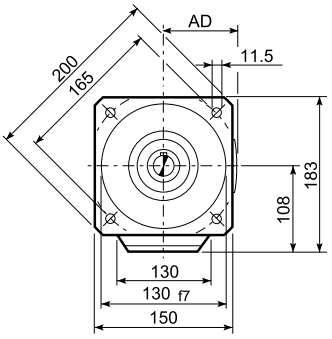




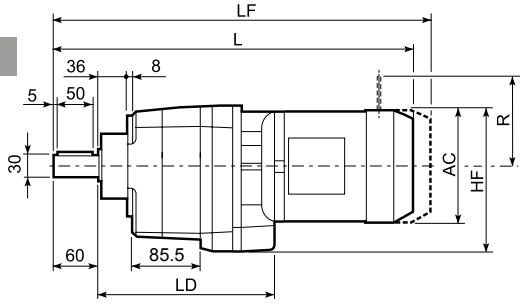


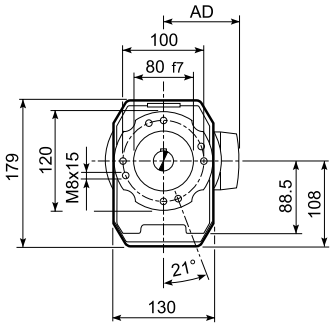
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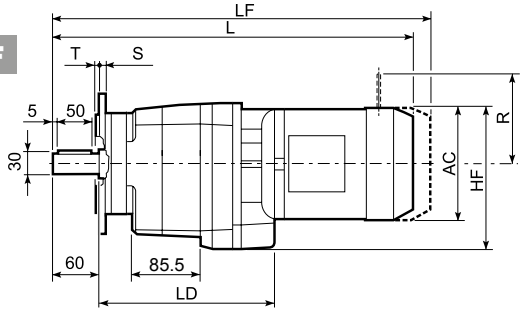


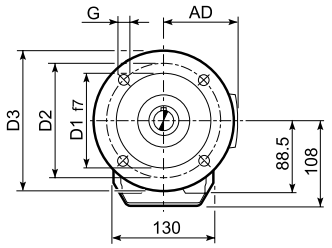
U





UF

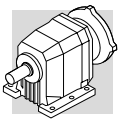




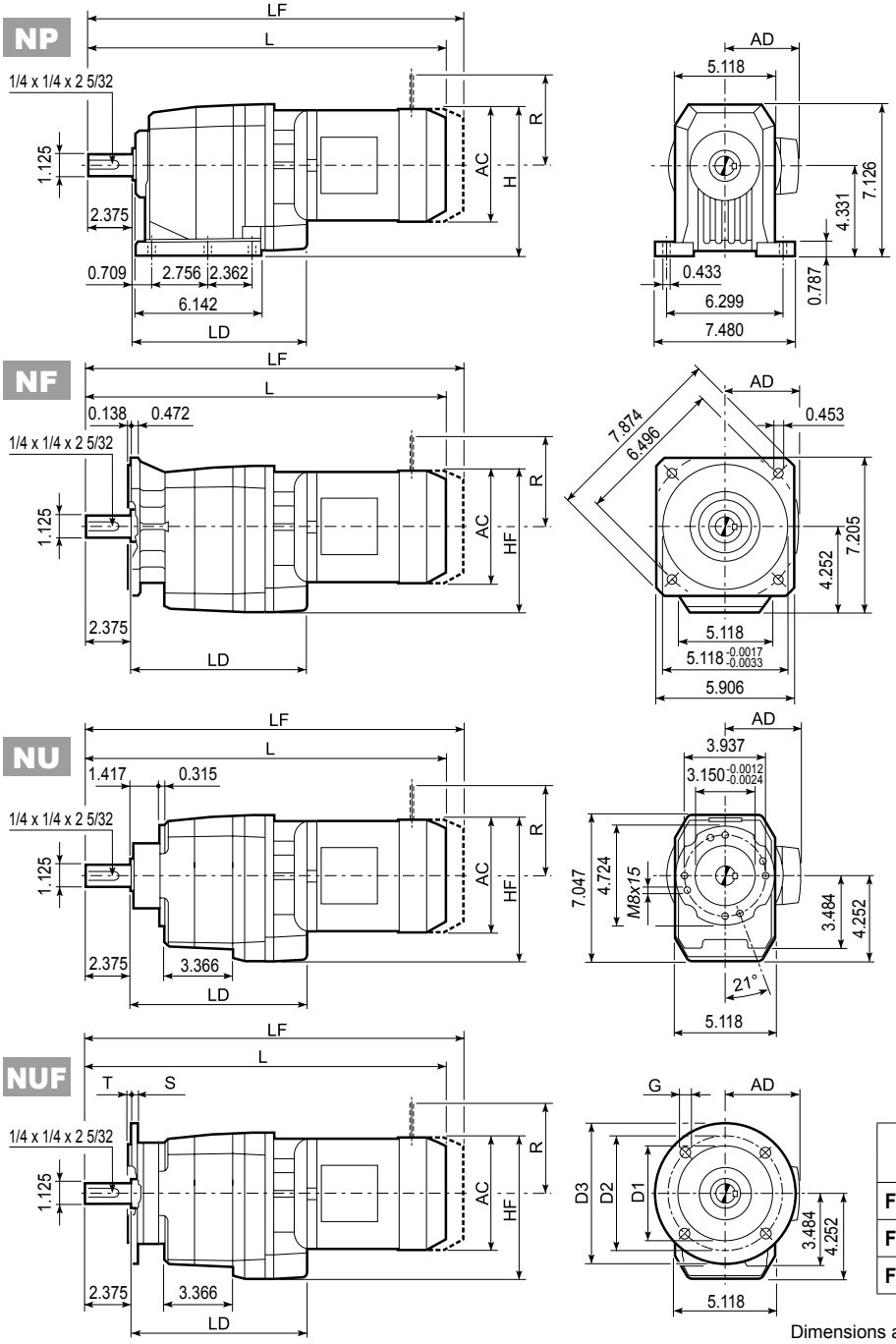
C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

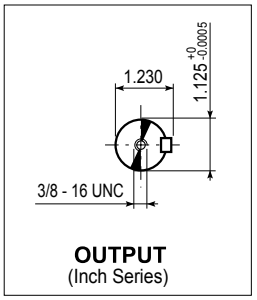
Dimensions are in mm

											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 32 2	S1	M1		138	179	177	462.5	205.5	108	14	523.5	16	103	135	124	108
C 32 2	S1	ME1		138	179	177	462.5	205.5	108	14	523.5	16	103	135	124	135
C 32 2	S2	M2S		156	188	186	490.5	217.5	119	18	561.5	21	129	146	134	119
C 32 2	S2	ME2S		156	188	186	490.5	217.5	119	19.6	547.5	23.2	129	143	134	143
C 32 2	S2	MX2S		156	188	186	534.5	217.5	119	23.1	593.5	27	129	143	134	143
C 32 2	S3	ME3S		195	207.5	205.5	534.5	227.5	142	24.5	601.5	31	160	155	160	155
C 32 2	S3	ME3L	MX3S	195	207.5	205.5	566.5	227.5	142	32	630.5	35	160	155	160	155
C 32 2	S3	MX3L		195	207.5	205.5	610.5	227.5	142	38	672.5	36	160	155	160	155
C 32 2	S4	ME4	MX4	258	239	237	674.5	—	193	66	745.5	65	204	210	200	210
C 32 2	S4	ME4LB	MX4LA	258	239	237	709.5	—	193	74	769.5	87	226	210	217	210
C 32 3	S05	M05		121	170.5	168.5	491	—	95	13	557	15	96	122	116	95
C 32 3	S05	ME05		121	170.5	168.5	491	—	95	13	557	15	96	119	116	119
C 32 3	S1	M1		138	179	177	520	—	108	15	581	17	103	135	124	108
C 32 3	S1	ME1		138	179	177	520	—	108	15	581	17	103	135	124	135
C 32 3	S2	ME2S		156	188	186	548	—	119	18	605	26.2	129	143	134	143
C 32 3	S2	MX2S		156	188	186	592	—	119	23.1	651	30	129	143	134	143
C 32 3	S3	ME3S		195	207.5	205.5	592	—	142	25.5	659	34	160	155	160	155
C 32 3	S3	ME3L	MX3S	195	207.5	205.5	624	—	142	33	688	38	160	155	160	155
C 32 3	S3	MX3L		195	207.5	205.5	668	—	142	39	730	46	160	155	160	155



C 32...M/ME/MX

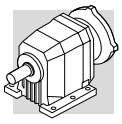




C 32_NU	D1	D2	D3	G	T	S
FA	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

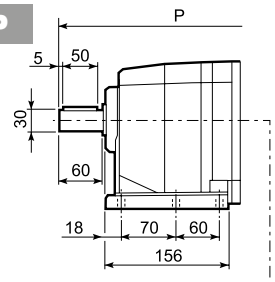
Dimensions are in Inch except when shown in *italic [mm]*

											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 32 2	S1	M1		5.433	7.047	6.969	18.221	8.091	4.252	31	20.623	35	4.055	5.315	4.882	4.252
C 32 2	S2	M2S		6.142	7.402	7.323	19.324	8.563	4.685	40	22.119	46	5.079	5.748	5.276	4.685
C 32 2	S2	ME2S		6.142	7.402	7.323	19.324	8.563	4.685	40	—	—	—	—	—	—
C 32 2	S2	MX2S		6.142	7.402	7.323	21.043	8.563	4.685	51	—	—	—	—	—	—
C 32 2	S3	ME3S		7.677	8.169	8.091	21.056	8.957	5.591	54	—	—	—	—	—	—
C 32 2	S3	MX3S		7.677	8.169	8.091	22.303	8.957	5.591	61	—	—	—	—	—	—
C 32 2	S3	ME3L		7.677	8.169	8.091	22.316	8.957	5.591	71	—	—	—	—	—	—
C 32 2	S3	MX3L		7.677	8.169	8.091	24.035	8.957	5.591	84	—	—	—	—	—	—
C 32 2	S4	ME4	MX4	10.157	9.409	9.331	26.568	—	7.598	146	—	—	—	—	—	—
C 32 2	S4	ME4LB	MX4LA	10.157	9.409	9.331	27.946	—	7.598	163	—	—	—	—	—	—
C 32 3	S05	M05		4.764	6.713	6.634	19.344	—	3.740	29	21.942	33	3.780	4.803	4.567	3.740
C 32 3	S1	M1		5.433	7.047	6.969	20.485	—	4.252	33	22.887	37	4.055	5.315	4.882	4.252
C 32 3	S2	ME2S		6.142	7.402	7.323	21.588	—	4.685	40	—	—	—	—	—	—
C 32 3	S2	MX2S		6.142	7.402	7.323	23.307	—	4.685	51	—	—	—	—	—	—
C 32 3	S3	ME3S		7.677	8.169	8.091	23.320	—	5.591	56	—	—	—	—	—	—
C 32 3	S3	MX3S		7.677	8.169	8.091	24.567	—	5.591	63	—	—	—	—	—	—
C 32 3	S3	ME3L		7.677	8.169	8.091	24.580	—	5.591	73	—	—	—	—	—	—
C 32 3	S3	MX3L		7.677	8.169	8.091	26.299	—	5.591	86	—	—	—	—	—	—

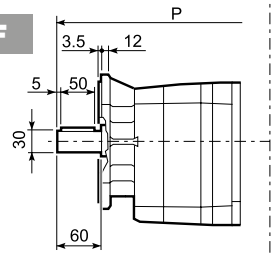


C 32...SK / SC

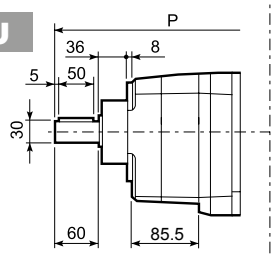
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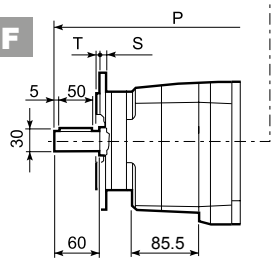
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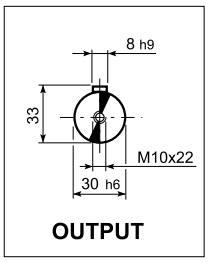


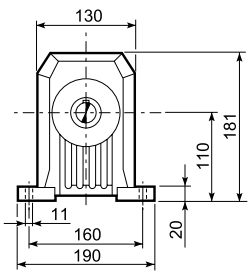
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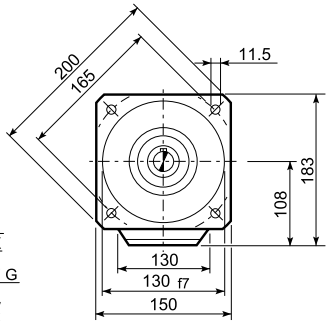


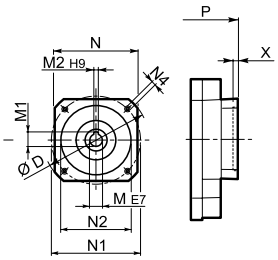
UF



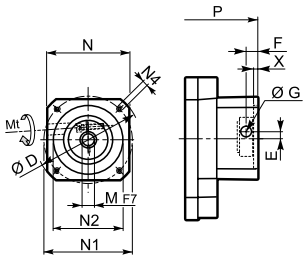




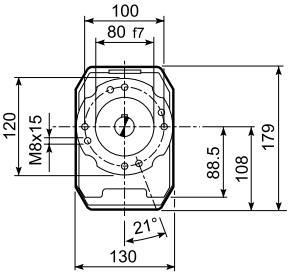




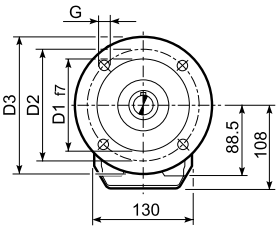
SK...



SC...



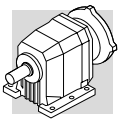
C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13



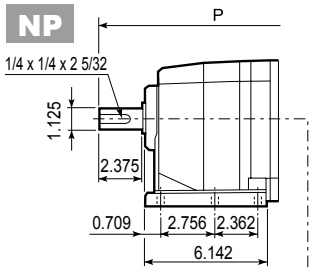
Dimensions are in mm

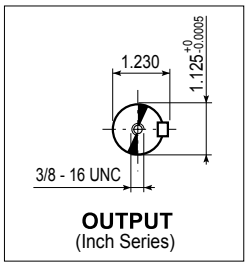
		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 32 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	279	336.5	8/9
C 32 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	286	343.5	9/10
C 32 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	286	343.5	9/10
C 32 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	327	384.5	10/11
C 32 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	327	384.5	10/11
C 32 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	327	384.5	10/11
C 32 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	327	—	11

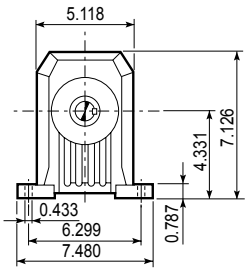
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 32 2/3	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	306	363.5	9/10
C 32 2/3	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	306	363.5	10/11
C 32 2/3	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	306	363.5	10/11
C 32 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	350.5	408	11/12
C 32 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	350.5	408	12/13
C 32 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	350.5	408	12/13
C 32 2	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	350.5	—	13

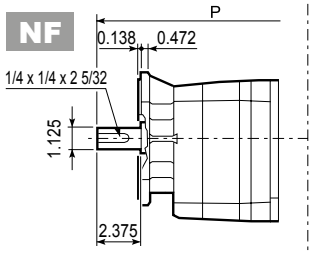


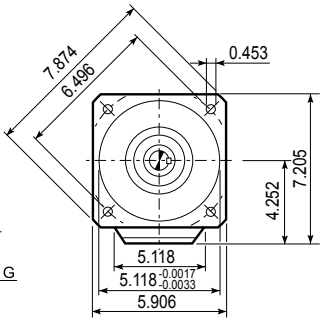
C 32...SK / SC

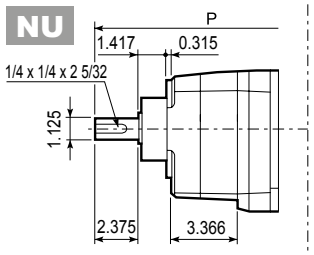


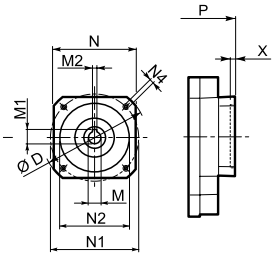




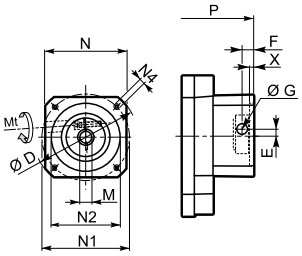




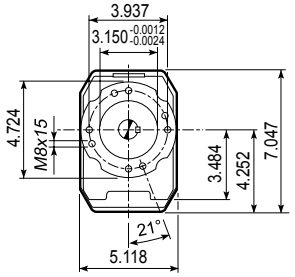


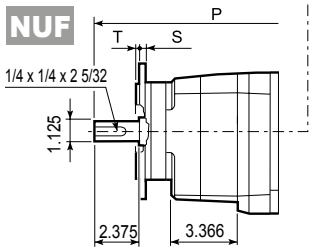


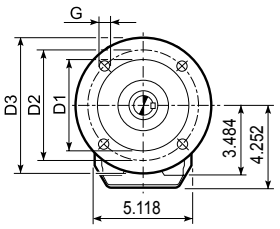
SK...



SC...







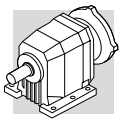
C 32_NU

	D1	D2	D3	G	T	S
FA	4.331 $^{-0.0014}_{-0.0028}$	5.118	6.299	0.354	0.118	0.394
FB	5.118 $^{-0.0017}_{-0.0033}$	6.496	7.874	0.433	0.138	0.433
FC	7.087 $^{-0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512

Dimensions are in Inch except when shown in *italic [mm]*

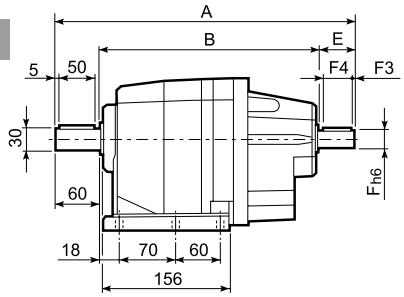
		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 32 2/3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	11.309	13.573	18/20
C 32 2/3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	11.585	13.849	20/22
C 32 2/3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	11.585	13.849	20/22
C 32 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.199	15.463	22/24
C 32 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.199	15.463	22/24
C 32 2	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	13.199	—	24

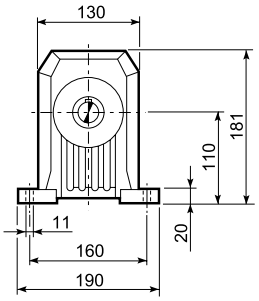
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 32 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	12.372	14.636	20/22
C 32 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	12.372	14.636	22/24
C 32 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	12.372	14.636	22/24
C 32 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	14.124	16.388	24/26
C 32 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	14.124	16.388	24/26
C 32 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.124	16.388	24/26
C 32 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.124	16.388	24/26
C 32 2/3	**SC 110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.124	16.388	26/29
C 32 2/3	**SC 110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.124	16.388	26/29
C 32 2	**SC 130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	14.124	—	29

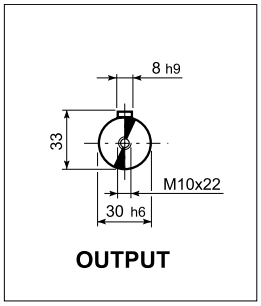


C 32...HS

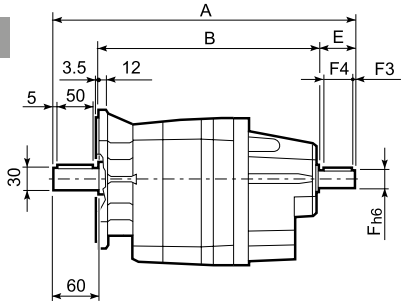
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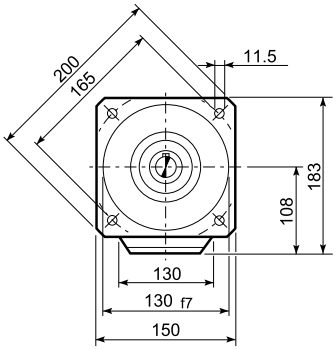


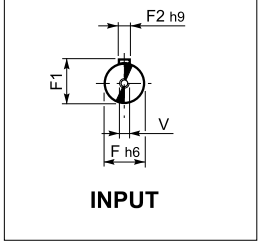




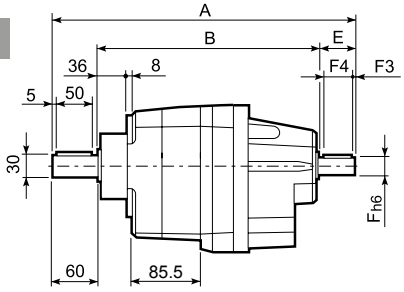
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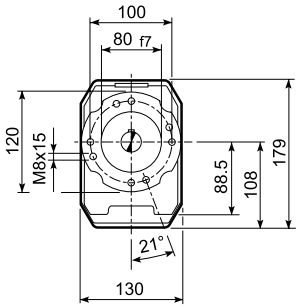




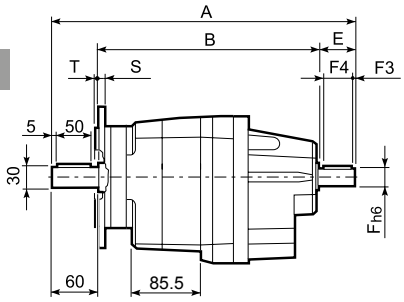


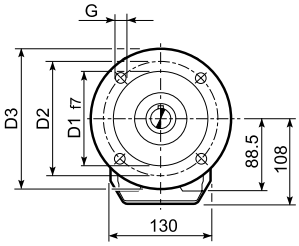
U





UF





C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

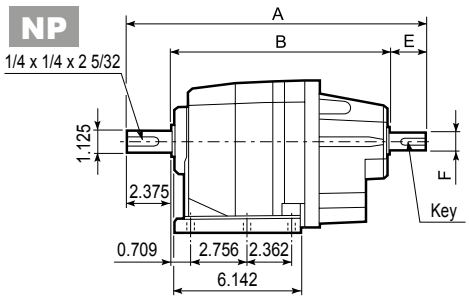
Dimensions are in mm

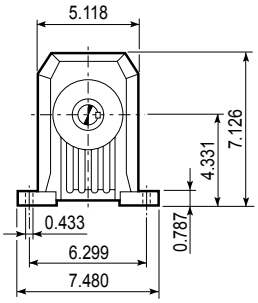
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 32 2	HS	357.5	257.5	40	19	21.5	6	2.5	35	M6x16	11.1
C 32 3		372	272	40	16	18	5	2.5	35	M6x16	10.6

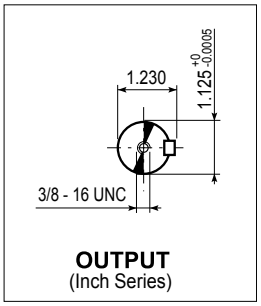
Metric output versions available also in combination with NHS input

C 32...NHS

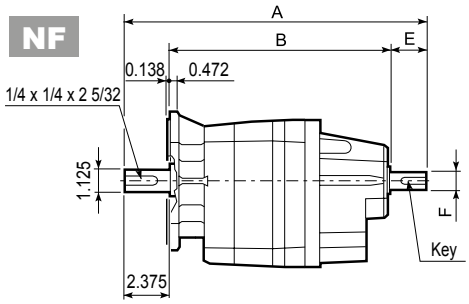
NP

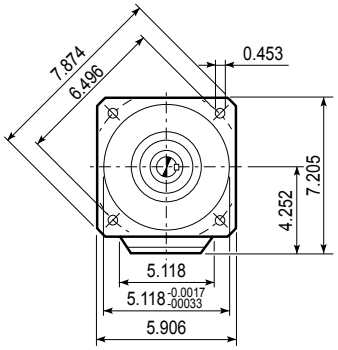


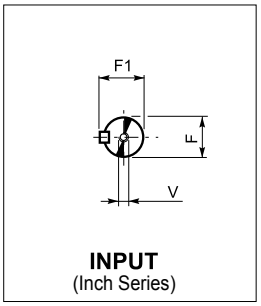




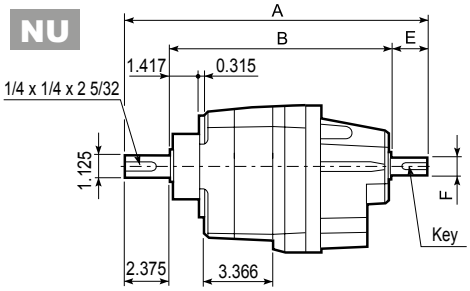
NF

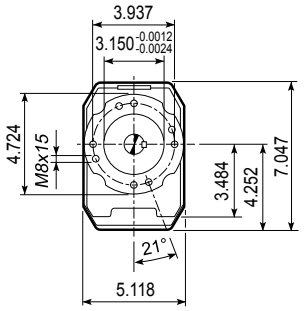




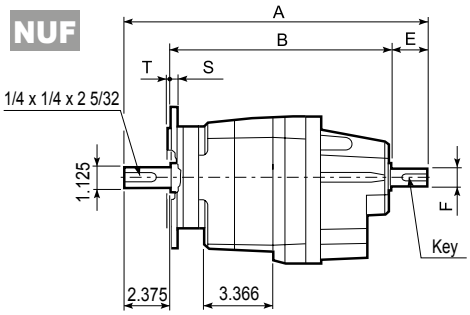


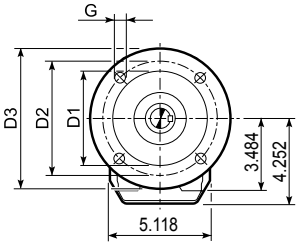
NU





NUF



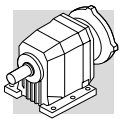


C 32_NU						
	D1	D2	D3	G	T	S
FA	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensions are in Inch except when shown in *italic [mm]*

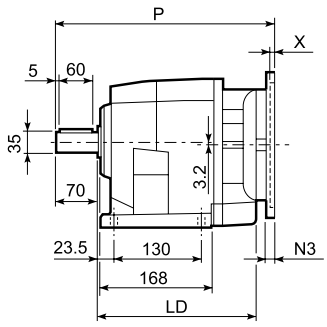
		A	B	E	F	F1	V	Key	lbs
C 32 2	NHS	14.088	10.138	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	24
C 32 3		14.658	10.709	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	23

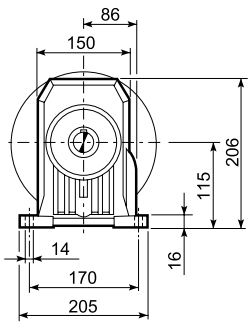
Imperial output versions available also in combination with HS input

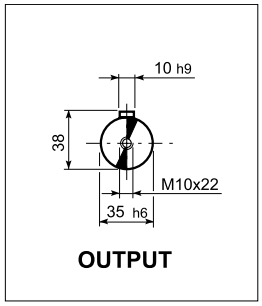


C 36...P(IEC)

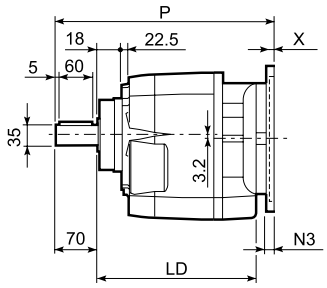
P

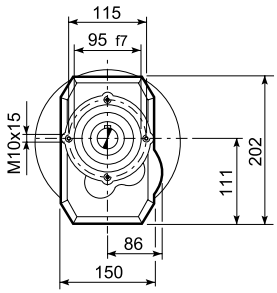


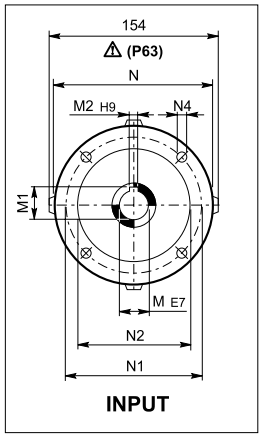




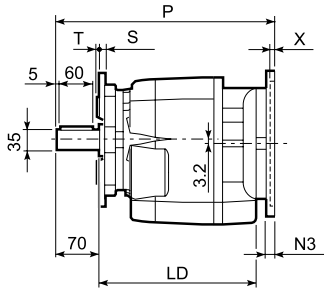
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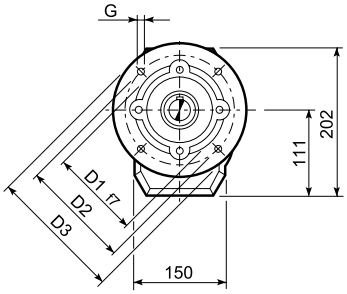






UF





C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

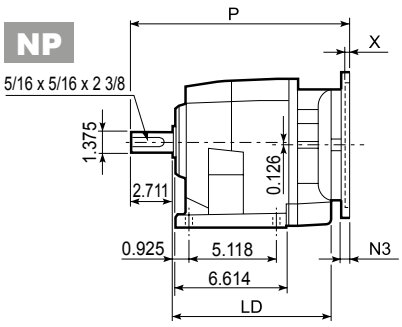
Dimensions are in mm

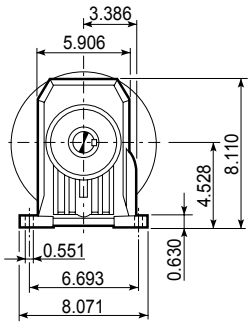
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 36 2/3	**P63**	226	11	12.8	4	140	115	95	—	M8x19	4	326	17
C 36 2/3	**P71**	226	14	16.3	5	160	130	110	—	M8x16	4.5	326	17
C 36 2/3	**P80**	236	19	21.8	6	200	165	130	—	M10x14.5	4	345.5	18
C 36 2/3	**P90**	236	24	27.3	8	200	165	130	—	M10x14.5	4	345.5	18
C 36 2/3	**P100**	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	**P112**	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	**P132**	—	38	41.3	10	300	265	230	16	14	5	392.5	25
C 36 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	383.5	20
C 36 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	383.5	20
C 36 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	403	21
C 36 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	403	21
C 36 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25
C 36 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25

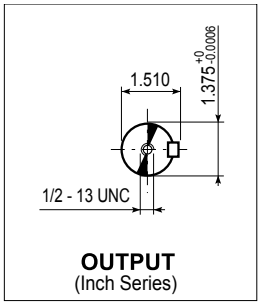
Metric output versions available also in combination with NEMA motor adaptor

C 36...N(NEMA Input)

NP

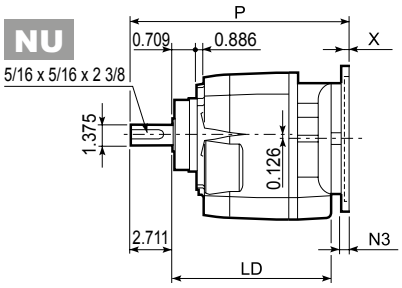


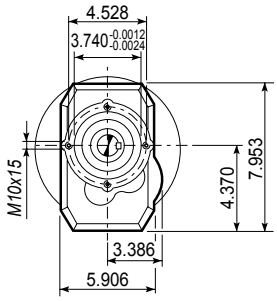


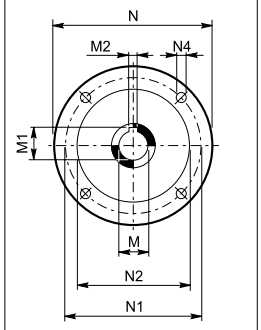


OUTPUT
(Inch Series)

NU

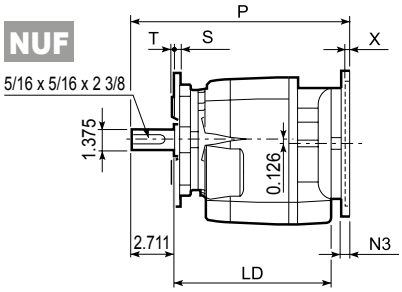


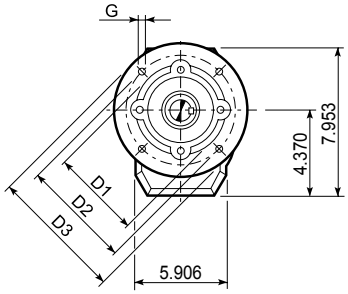




INPUT
(Nema flange)

NUF



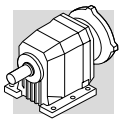


C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.551

Dimensions are in Inch except when shown in *italic [mm]*

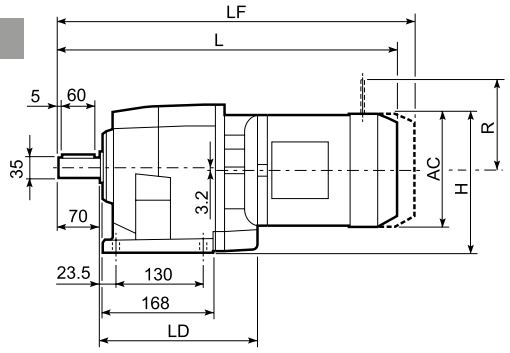
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 36 2/3	**N56C**	8.898	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.577	37
C 36 2/3	**N140TC**	8.898	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.577	40
C 36 2/3	**N180TC**	9.291	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.404	49
C 36 2/3	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	15.585	55
C 36 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.841	44
C 36 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.841	46
C 36 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	16.667	55

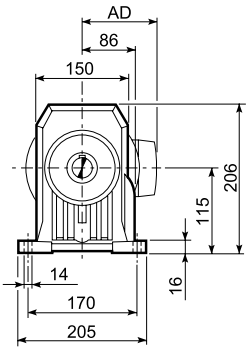
Imperial output versions available also in combination with IEC motor adaptor

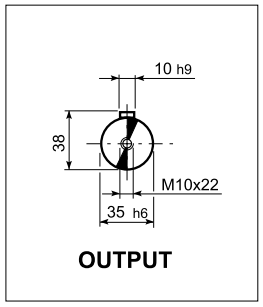


C 36...M/ME/MX

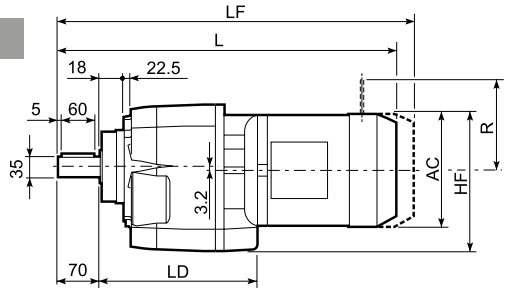
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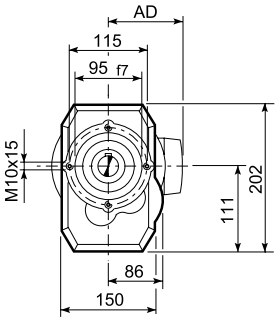




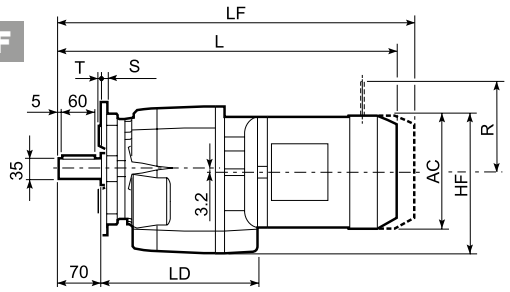


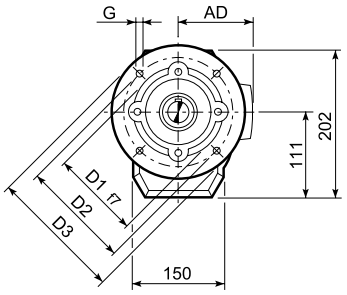
U





UF



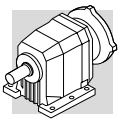


C 36_U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

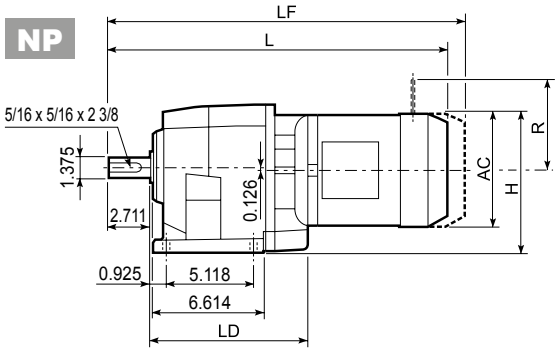
Dimensions are in mm

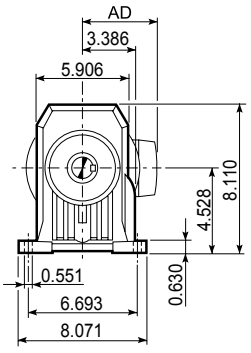
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 36 2/3	**S1**	**M1**		138	184	177	481	214	108	20	542	21	103	135	124	108
C 36 2/3	**S1**	**ME1**		138	184	177	481	214	108	19	542	21	103	135	124	135
C 36 2/3	**S2**	**ME2S**		156	193	186	509	226	119	23	566	29.2	129	143	134	143
C 36 2/3	**S2**	**MX2S**		156	193	186	553	226	119	28.1	612	33	129	155	134	155
C 36 2/3	**S3**	**ME3S**		195	212.5	205.5	553	236	142	29.5	620	37	160	155	160	155
C 36 2/3	**S3**	**ME3L**	**MX3S**	195	212.5	205.5	585	236	142	37	649	41	160	155	160	155
C 36 2/3	**S3**	**MX3L**		195	212.5	205.5	629	236	142	43	691	49	160	155	160	155
C 36 2/3	**S4**	**ME4**	**MX4**	258	244	240	693.5	—	193	71	764	83	204	210	200	210
C 36 2/3	**S4**	**ME4LB**	**MX4LA**	258	244	240	728.5	—	193	79	789	93	204	210	226	210
C 36 4	**S05**	**M05**		121	175.5	168.5	509.5	—	95	19	575.5	20	96	122	116	95
C 36 4	**S05**	**ME05**		121	175.5	168.5	509.5	—	95	19	575.5	20	96	119	116	119
C 36 4	**S1**	**M1**		138	184	177	538.5	—	108	21	599.5	22	103	135	124	108
C 36 4	**S1**	**ME1**		138	184	177	538.5	—	108	21	595.5	22	103	135	124	135
C 36 4	**S2**	**ME2S**		156	193	186	566.5	—	119	24	623.5	30	129	143	134	143
C 36 4	**S2**	**MX2S**		156	193	186	610.5	—	119	29.1	669.5	34	129	155	134	155
C 36 4	**S3**	**ME3S**		195	212.5	205.5	610.5	—	142	31	677.5	38	160	155	160	155
C 36 4	**S3**	**ME3L**	**MX3S**	195	212.5	205.5	642.5	—	142	38	706.5	42	160	155	160	155
C 36 4	**S3**	**MX3L**		195	212.5	205.5	686.5	—	142	44	748.5	50	160	155	160	155

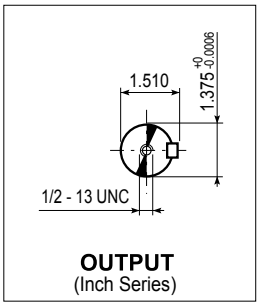


C 36...M/ME/MX

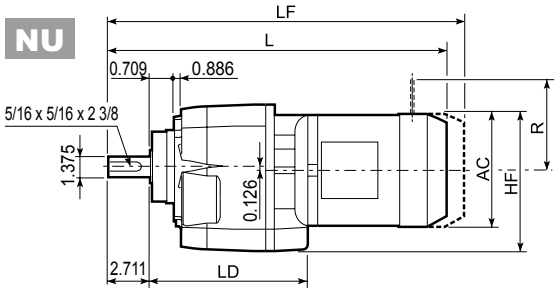
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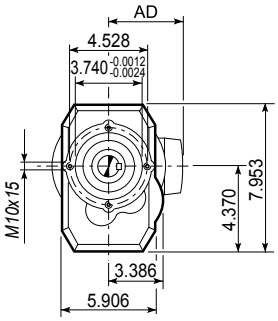




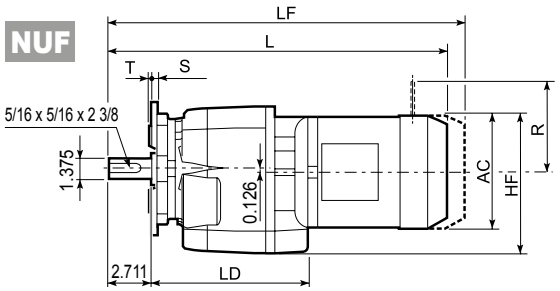


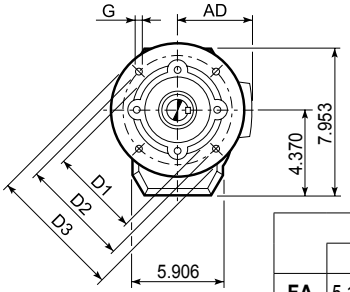
NU





NUF

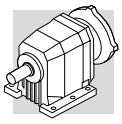




C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.551

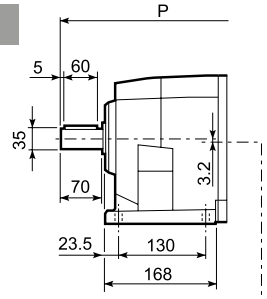
Dimensions are in Inch except when shown in *italic [mm]*

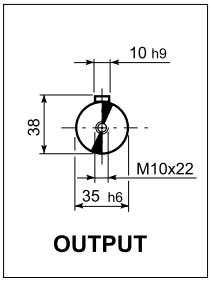
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 36 2/3	S1	M1		5.433	7.244	6.969	18.892	8.425	4.252	44	21.293	46	4.055	5.315	4.882	4.252
C 36 2/3	S2	ME2S		6.142	7.598	7.323	19.994	8.898	4.685	51	—	—	—	—	—	—
C 36 2/3	S2	MX2S		6.142	7.598	7.323	21.772	8.898	4.685	62	—	—	—	—	—	—
C 36 2/3	S3	ME3S		7.677	8.366	8.091	21.726	9.291	5.591	65	—	—	—	—	—	—
C 36 2/3	S3	MX3S		7.677	8.366	8.091	23.031	9.291	5.591	72	—	—	—	—	—	—
C 36 2/3	S3	ME3L		7.677	8.366	8.091	22.986	9.291	5.591	82	—	—	—	—	—	—
C 36 2/3	S3	MX3L		7.677	8.366	8.091	24.764	9.291	5.591	95	—	—	—	—	—	—
C 36 2/3	S4	ME4	MX4	10.157	9.606	9.449	27.303	—	7.598	157	—	—	—	—	—	—
C 36 2/3	S4	ME4LB	MX4LA	10.157	9.606	9.449	28.636	—	7.598	174	—	—	—	—	—	—
C 36 4	S05	M05		4.764	6.909	6.634	20.014	—	3.740	42	22.612	44	3.780	4.803	4.567	3.740
C 36 4	S1	M1		5.433	7.244	6.969	21.156	—	4.252	46	23.557	49	4.055	5.315	4.882	4.252
C 36 4	S2	ME2S		6.142	7.598	7.323	22.258	—	4.685	53	—	—	—	—	—	—
C 36 4	S2	MX2S		6.142	7.598	7.323	24.035	—	4.685	64	—	—	—	—	—	—
C 36 4	S3	ME3S		7.677	8.366	8.091	23.990	—	5.591	67	—	—	—	—	—	—
C 36 4	S3	MX3S		7.677	8.366	8.091	25.295	—	5.591	74	—	—	—	—	—	—
C 36 4	S3	ME3L		7.677	8.366	8.091	25.250	—	5.591	84	—	—	—	—	—	—
C 36 4	S3	MX3L		7.677	8.366	8.091	27.028	—	5.591	97	—	—	—	—	—	—

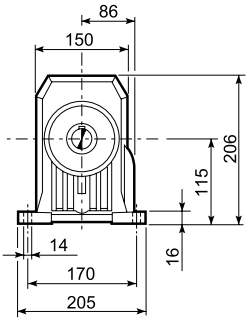


C 36...SK / SC

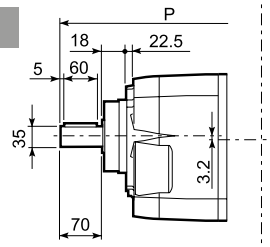
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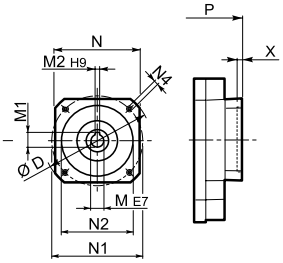




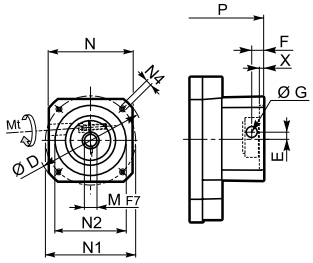


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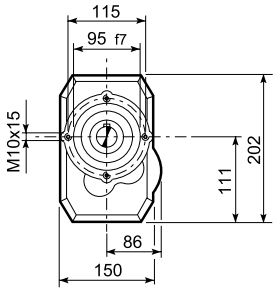




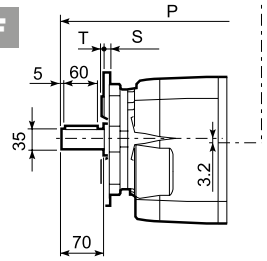
SK...



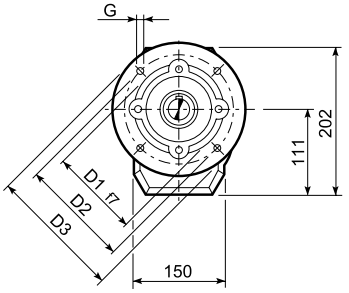
SC...



UF



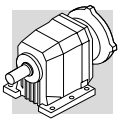
C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14



Dimensions are in mm

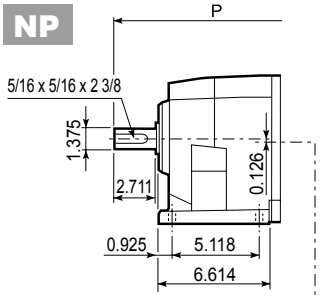
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 36 2/3/4	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	297.5	355	16/16/19
C 36 2/3/4	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	304.5	362	17/17/20
C 36 2/3/4	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	304.5	362	18/18/21
C 36 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	304.5	403	18/18/21
C 36 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	345.5	—	19/19

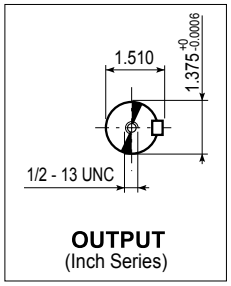
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 36 2/3/4	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	324.5	382	17/17/20
C 36 2/3/4	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	324.5	382	18/18/21
C 36 2/3/4	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	324.5	426.5	18/18/21
C 36 2/3/4	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	369	426.5	19/19/22
C 36 2/3/4	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3/4	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	369	—	22/22

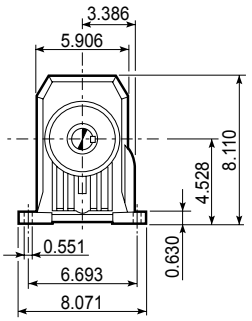


C 36...SK / SC

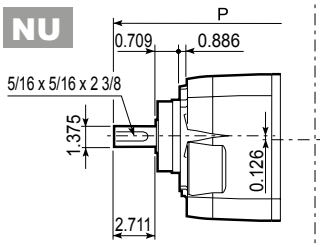
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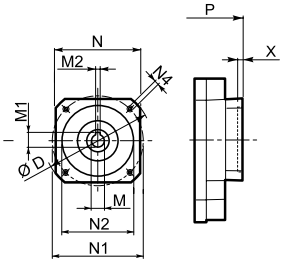




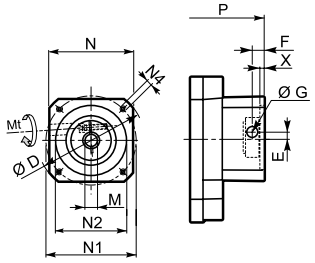


NU

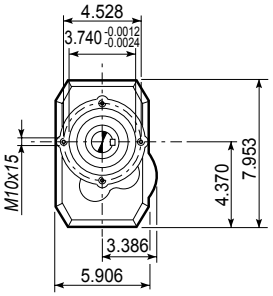




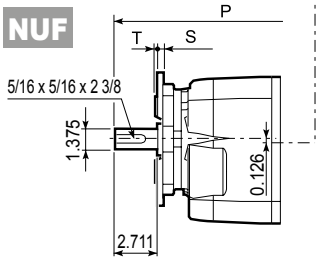
SK...



SC...

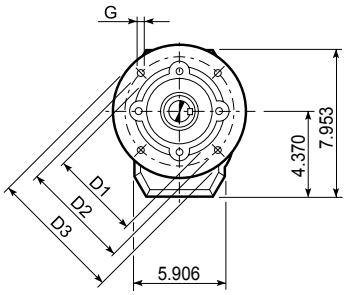


NUF



C 36_NU

	D1	D2	D3	G	T	S
FA	5.118 $^{-0.0017}_{-0.0033}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $^{-0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.551



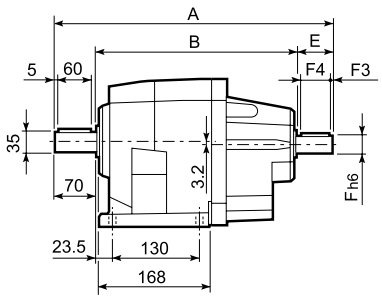
Dimensions are in Inch except when shown in *italic [mm]*

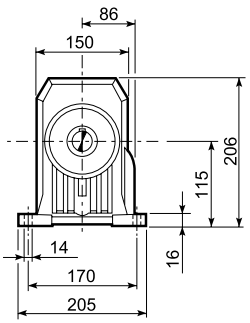
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 36 2/3/4	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	11.667	13.931	35/35/42
C 36 2/3/4	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	11.943	14.207	37/37/44
C 36 2/3/4	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	11.943	14.207	40/40/46
C 36 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	11.943	15.821	40/40/46
C 36 2/3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.557	15.821	40/40/46
C 36 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.557	15.821	40/40/46
C 36 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.557	15.821	40/40/46
C 36 2/3/4	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.557	15.821	40/40/46
C 36 2/3/4	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.557	15.821	40/40/46
C 36 2/3	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	13.557	—	42/42

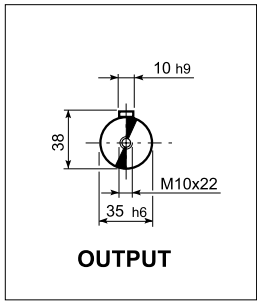
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 36 2/3/4	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	12.730	14.994	37/37/44
C 36 2/3/4	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	12.730	14.994	40/40/46
C 36 2/3/4	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	12.730	16.746	40/40/46
C 36 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.482	16.746	46/46/53
C 36 2/3/4	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.482	16.746	46/46/53
C 36 2/3	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	14.482	—	49/49

C 36...HS

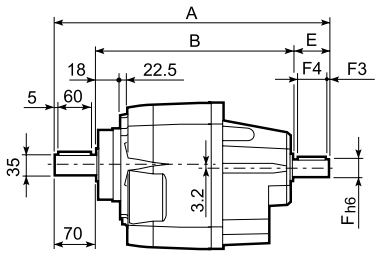
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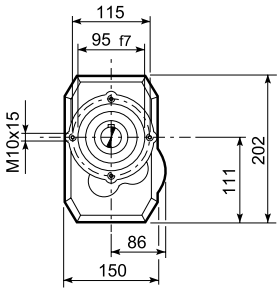


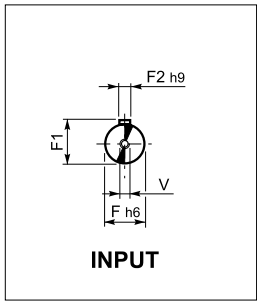




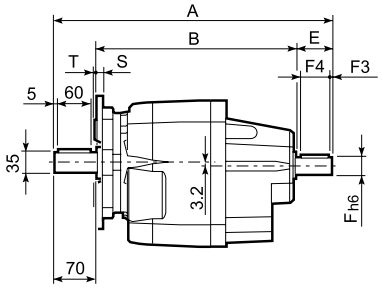
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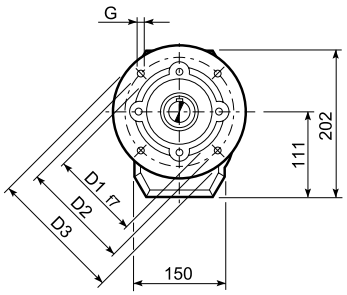






UF





C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

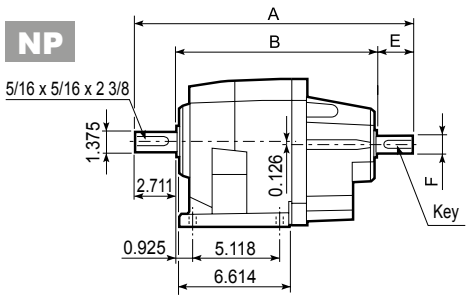
Dimensions are in mm

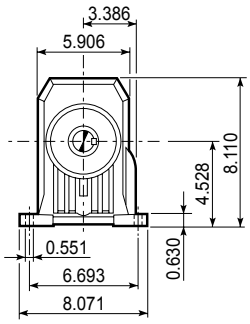
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 36 2	HS	415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 3		415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 4		390.5	280.5	40	16	18	5	2.5	36	M6x16	26.5

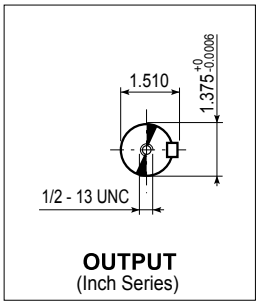
Metric output versions available also in combination with NHS input

C 36...NHS

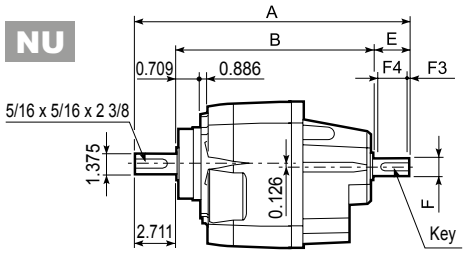
NP

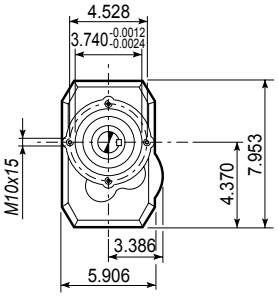


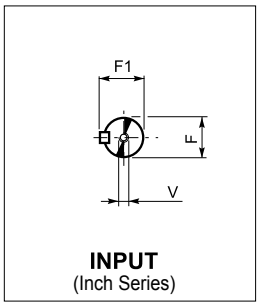




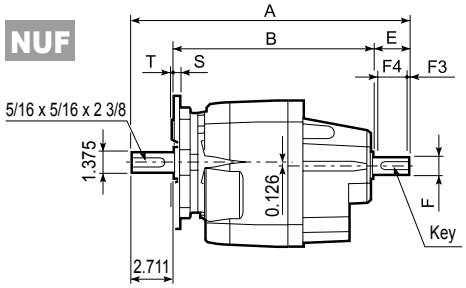
NU

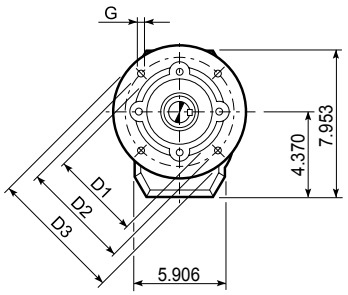






NUF



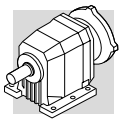


C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.551

Dimensions are in Inch except when shown in *italic [mm]*

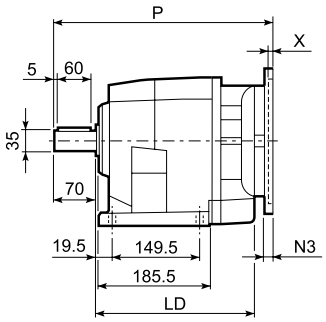
		A	B	E	F	F1	V	Key	lbs
C 36 2	NHS	16.313	11.634	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	56
C 36 3		16.313	11.634	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	56
C 36 4		15.329	11.043	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	58

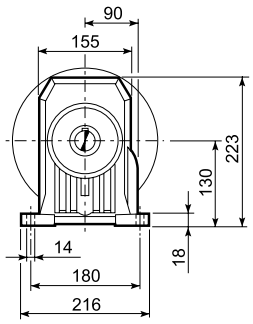
Imperial output versions available also in combination with HS input

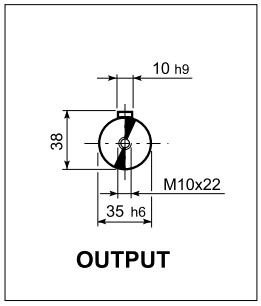


C 41...P(IEC)

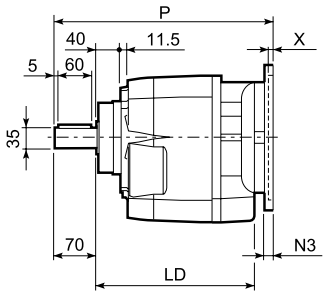
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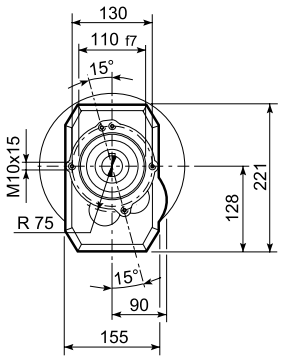


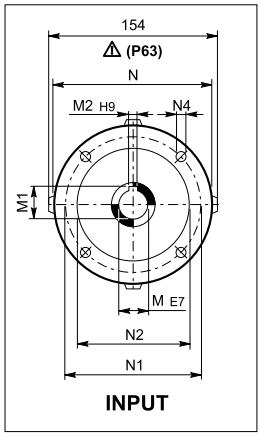




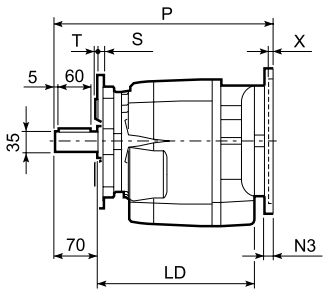
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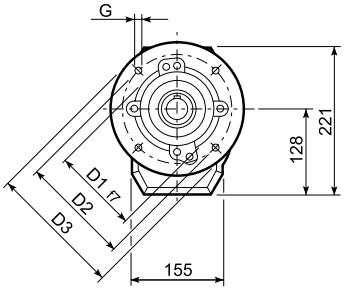






UF





C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

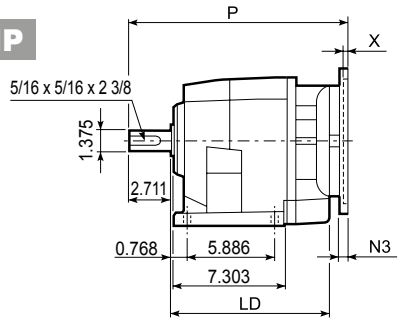
Dimensions are in mm

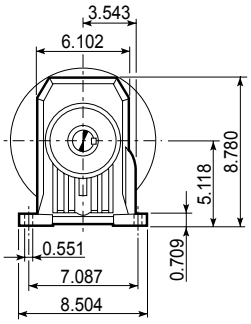
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 41 2/3	**P63**	235.5	11	12.8	4	140	115	95	—	M8x19	4	336.5	27
C 41 2/3	**P71**	235.5	14	16.3	5	160	130	110	—	M8x16	4.5	336.5	28
C 41 2/3	**P80**	251.5	19	21.8	6	200	165	130	—	M10x14.5	4	356	29
C 41 2/3	**P90**	251.5	24	27.3	8	200	165	130	—	M10x14.5	4	356	29
C 41 2/3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	**P132**	—	38	41.3	10	300	265	230	16	14	5	402.5	35
C 41 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	395	30
C 41 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	395	31
C 41 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	414.5	32
C 41 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	414.5	32
C 41 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36
C 41 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36

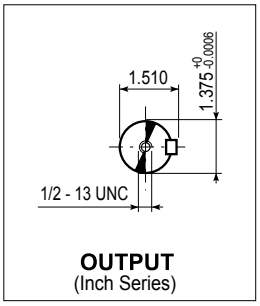
Metric output versions available also in combination with NEMA motor adaptor

C 41...N(NEMA Input)

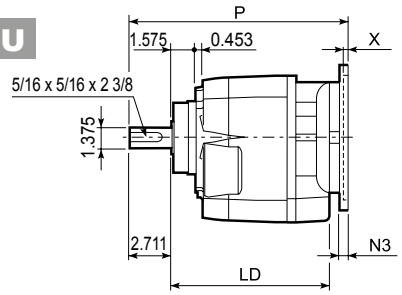
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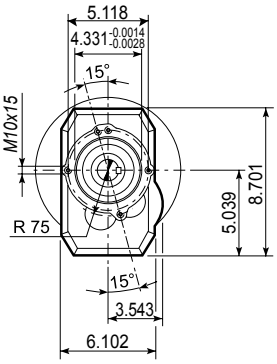


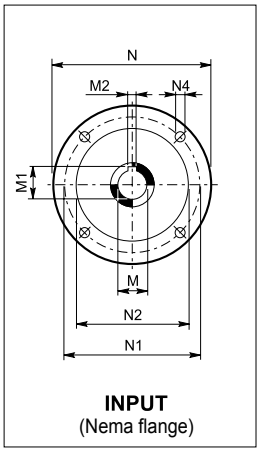




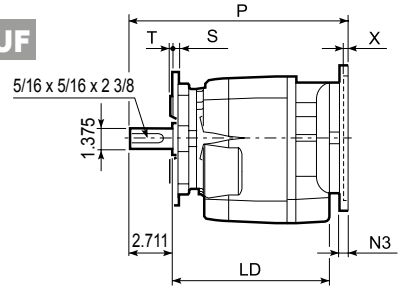
NU

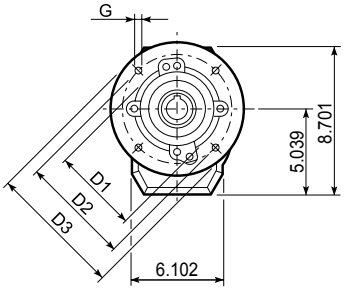






NUF



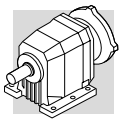


C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensions are in Inch except when shown in *italic [mm]*

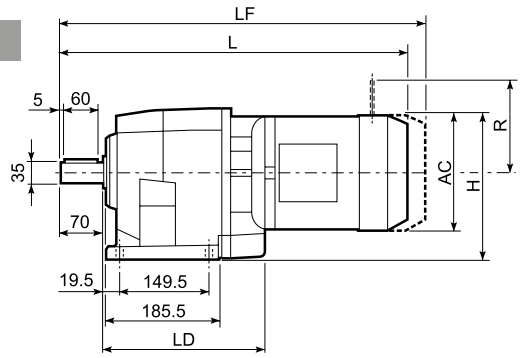
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 41 2/3	**N56C**	9.272	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.990	62
C 41 2/3	**N140TC**	9.272	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.990	64
C 41 2/3	**N180TC**	9.902	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.738	73
C 41 2/3	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	15.978	77
C 41 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.293	68
C 41 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.293	71
C 41 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	17.120	79

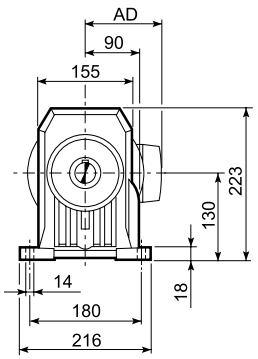
Imperial output versions available also in combination with IEC motor adaptor

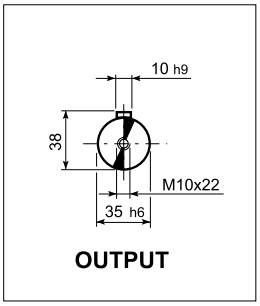


C 41...M/ME/MX

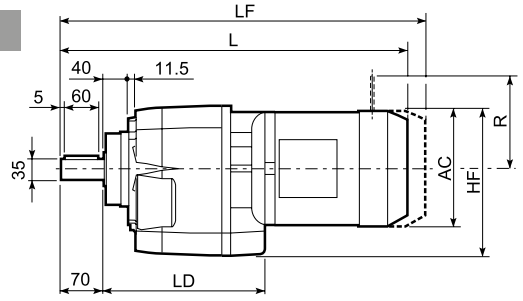
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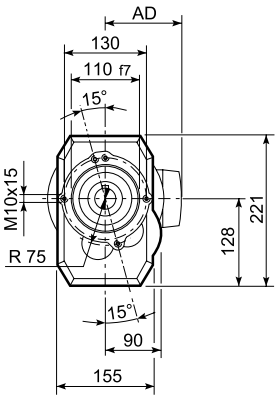




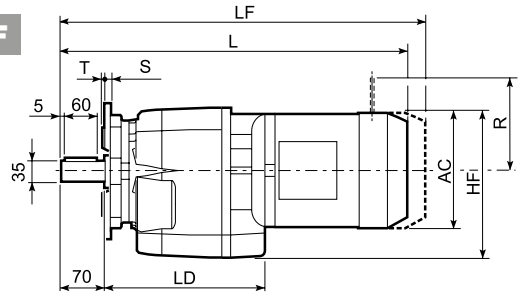


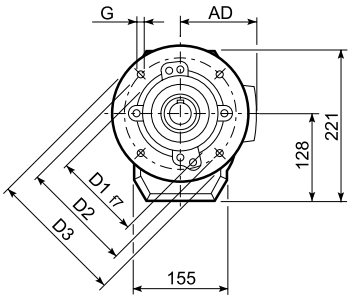
U





UF



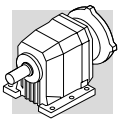


C 41_U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

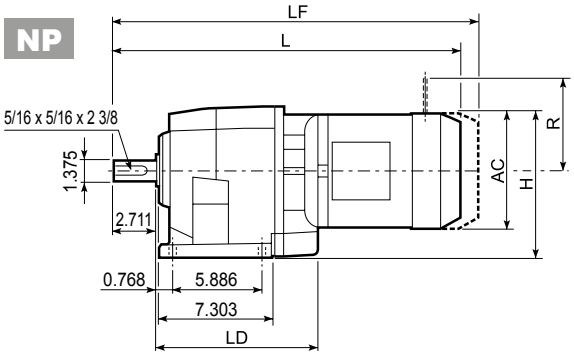
Dimensions are in mm

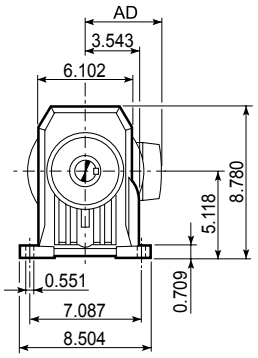
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 41 2/3	**S1**	**M1**		138	199	197	491.5	220	108	25	552.5	28	103	135	124	108
C 41 2/3	**S1**	**ME1**		138	199	197	491.5	220	108	24	552.5	28	103	135	124	135
C 41 2/3	**S2**	**ME2S**		156	208	206	519.5	235.5	119	31	576.5	34	129	143	134	143
C 41 2/3	**S2**	**MX2S**		156	208	206	563.5	235.5	119	36	622.5	38	129	143	134	143
C 41 2/3	**S3**	**ME3S**		195	227.5	225.5	563.5	251.5	142	38	630.5	41	160	155	160	155
C 41 2/3	**S3**	**ME3L**	**MX3S**	195	227.5	225.5	595.5	251.5	142	45	659.5	46	160	155	160	155
C 41 2/3	**S3**	**MX3L**		195	227.5	225.5	639.5	251.5	142	51	701.5	54	160	155	160	155
C 41 2/3	**S4**	**ME4**	**MX4**	258	259	257	703.5	—	193	71	774.5	88	204	210	200	210
C 41 2/3	**S4**	**ME4LB**	**MX4LA**	258	259	257	739	—	193	78	799.5	98	204	210	226	210
C 41 4	**S05**	**M05**		231	245.5	243.5	524	—	95	27	590	28	96	122	116	95
C 41 4	**S05**	**ME05**		231	245.5	243.5	524	—	95	27	590	28	96	119	116	119
C 41 4	**S1**	**M1**		138	199	197	553	—	108	28	614	31	103	135	124	108
C 41 4	**S1**	**ME1**		138	199	197	553	—	108	27	614	31	103	135	124	135
C 41 4	**S2**	**ME2S**		156	208	206	581	—	119	34	638	37	129	143	134	143
C 41 4	**S2**	**MX2S**		156	208	206	625	—	119	39	684	41	129	143	134	143
C 41 4	**S3**	**ME3S**		195	227.5	225.5	625	—	142	41	692	44	160	155	160	155
C 41 4	**S3**	**ME3L**	**MX3S**	195	227.5	225.5	657	—	142	48	721	49	160	155	160	155
C 41 4	**S3**	**MX3L**		195	227.5	225.5	701	—	142	54	763	57	160	155	160	155

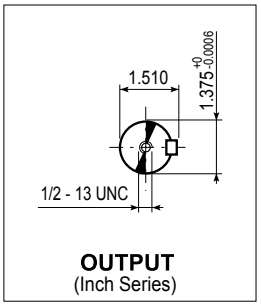


C 41...M/ME/MX

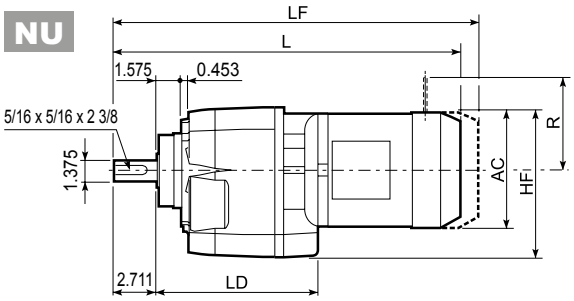
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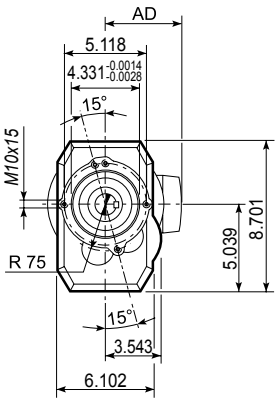




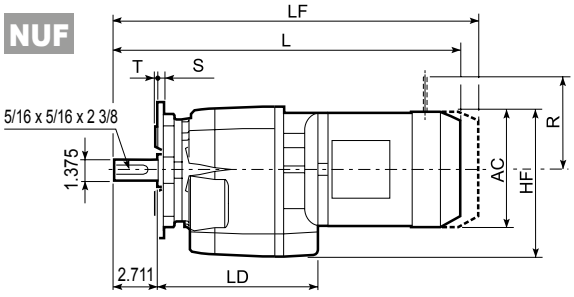


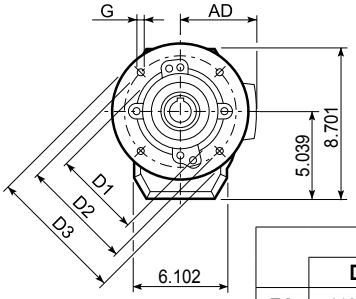
NU





NUF

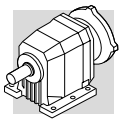




C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

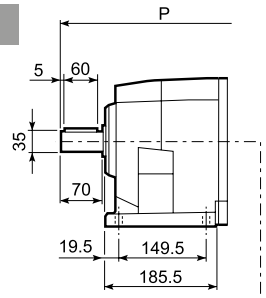
Dimensions are in Inch except when shown in *italic [mm]*

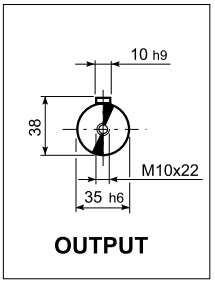
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 41 2/3	S1	M1		5.433	7.835	7.756	19.305	8.661	4.252	55	21.707	62	4.055	5.315	4.882	4.252
C 41 2/3	S2	ME2S		6.142	8.189	8.110	20.407	9.272	4.685	68	—	—	—	—	—	—
C 41 2/3	S2	MX2S		6.142	8.189	8.110	22.185	9.272	4.685	80	—	—	—	—	—	—
C 41 2/3	S3	ME3S		7.677	8.957	8.878	22.140	9.902	5.591	83	—	—	—	—	—	—
C 41 2/3	S3	MX3S		7.677	8.957	8.878	23.445	9.902	5.591	89	—	—	—	—	—	—
C 41 2/3	S3	ME3L		7.677	8.957	8.878	23.400	9.902	5.591	99	—	—	—	—	—	—
C 41 2/3	S3	MX3L		7.677	8.957	8.878	25.177	9.902	5.591	112	—	—	—	—	—	—
C 41 2/3	S4	ME4	MX4	10.157	10.197	10.118	27.652	—	7.598	157	—	—	—	—	—	—
C 41 2/3	S4	ME4LB	MX4LA	10.157	10.197	10.118	29.049	—	7.598	172	—	—	—	—	—	—
C 41 4	S05	M05		9.094	9.665	9.587	20.585	—	3.740	60	23.183	62	3.780	4.803	4.567	3.740
C 41 4	S1	M1		5.433	7.835	7.756	21.726	—	4.252	62	24.128	68	4.055	5.315	4.882	4.252
C 41 4	S2	ME2S		6.142	8.189	8.110	22.829	—	4.685	75	—	—	—	—	—	—
C 41 4	S2	MX2S		6.142	8.189	8.110	24.606	—	4.685	86	—	—	—	—	—	—
C 41 4	S3	ME3S		7.677	8.957	8.878	24.561	—	5.591	89	—	—	—	—	—	—
C 41 4	S3	MX3S		7.677	8.957	8.878	25.866	—	5.591	96	—	—	—	—	—	—
C 41 4	S3	ME3L		7.677	8.957	8.878	25.821	—	5.591	106	—	—	—	—	—	—
C 41 4	S3	MX3L		7.677	8.957	8.878	27.598	—	5.591	119	—	—	—	—	—	—

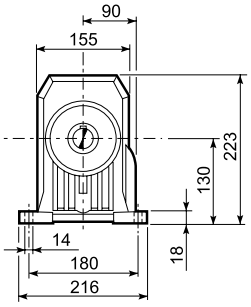


C 41...SK / SC

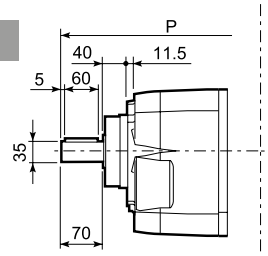
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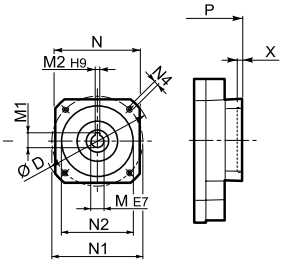


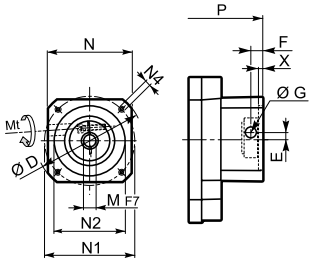


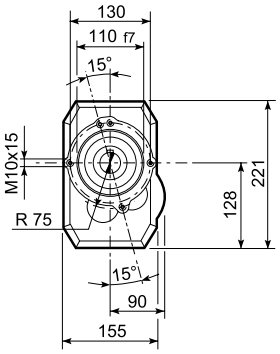


U



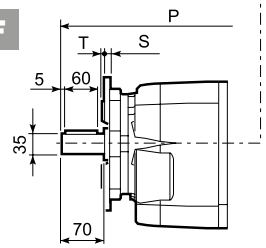




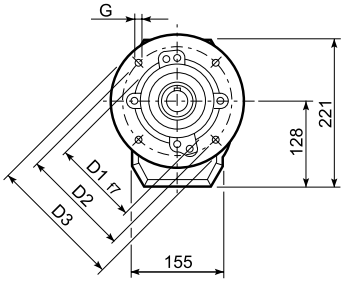


SK... **SC...**

UF



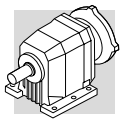
C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13



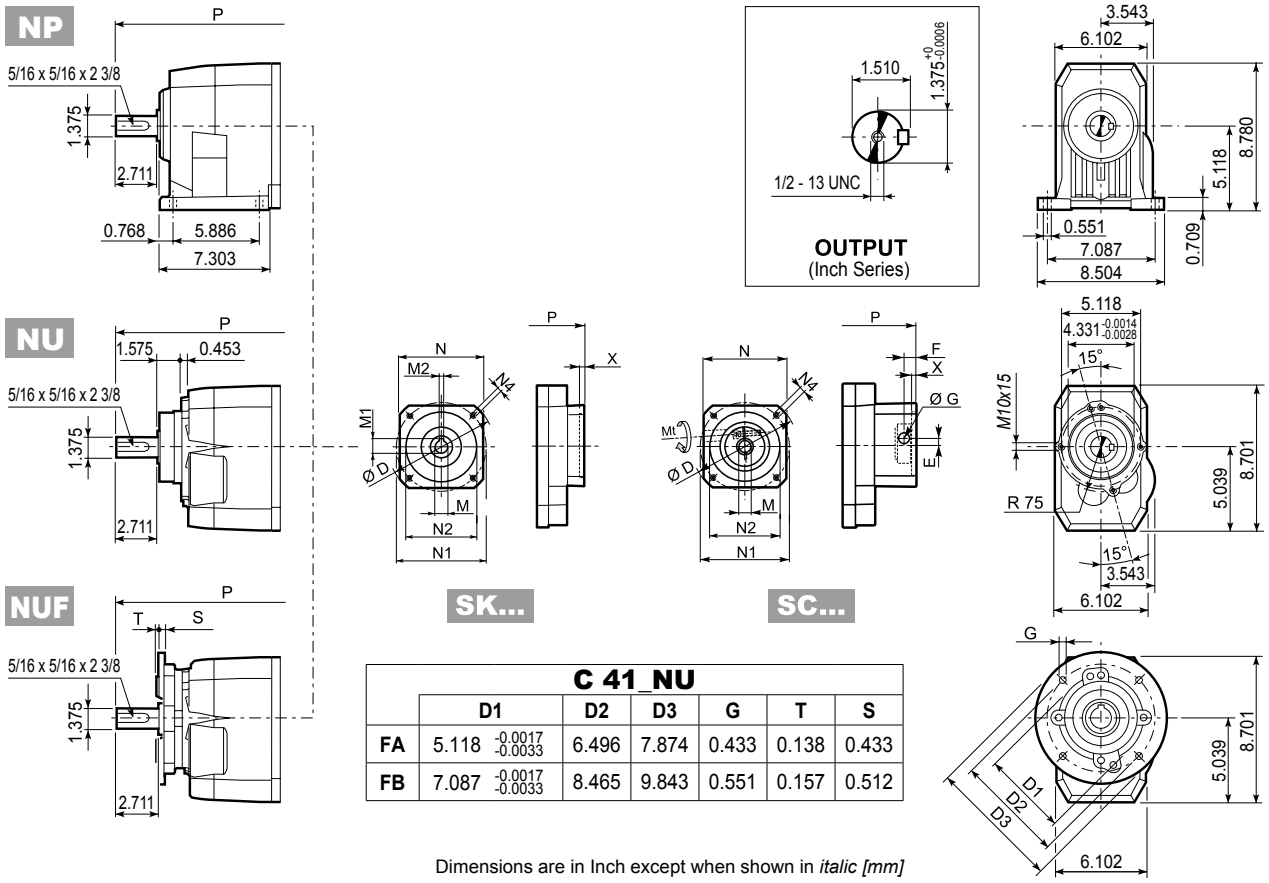
Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C41 4	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	—	370	31
C41 4	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	—	377	32
C41 4	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	—	377	32
C41 2/3	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	356.5	—	29/29
C41 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	356.5	418	29/29/32
C41 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	356.5	418	29/29/32
C41 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	356.5	418	29/29/33
C41 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	356.5	418	29/29/36
C41 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	356.5	—	31/31
C41 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	403	—	33/33
C41 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	403	—	33/33
C41 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	403	—	38/38

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C41 4	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	397	32
C41 4	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	397	33
C41 4	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	397	33
C41 2/3	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	380	—	30/30
C41 2/3/4	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	380	441.5	30/30/33
C41 2/3/4	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	380	441.5	30/30/35
C41 2/3/4	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3/4	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	380	—	32/32
C41 2/3	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	426	—	36/36
C41 2/3	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	430	—	36/36
C41 2/3	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	430	—	35/35



C 41...SK / SC



C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 $^{-0.0017}_{-0.0033}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $^{-0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512

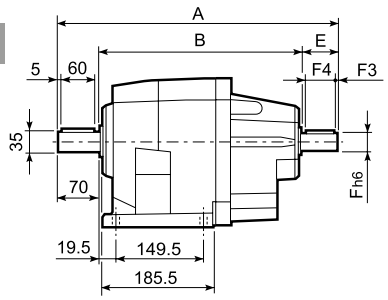
Dimensions are in Inch except when shown in *italic [mm]*

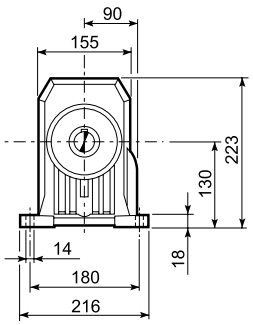
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C41 4	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	—	14.522	68
C41 4	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	—	14.797	71
C41 4	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	—	14.797	71
C41 2/3	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	13.990	—	64/64
C41 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	13.990	16.411	64/64/71
C41 2/3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.990	16.411	64/64/71
C41 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.990	16.411	64/64/73
C41 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.990	16.411	64/64/79
C41 2/3/4	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.990	16.411	64/64/79
C41 2/3/4	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.990	16.411	64/64/79
C41 2/3	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	13.990	—	68/68
C41 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	15.821	—	73/73
C41 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	15.821	—	73/73
C41 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	15.821	—	84/84

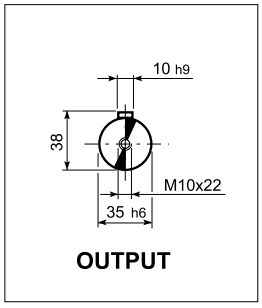
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C41 4	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	15.585	71
C41 4	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	15.585	73
C41 4	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	—	15.585	73
C41 2/3	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	14.915	—	66/66
C41 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	14.915	17.337	66/66/73
C41 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	14.915	17.337	66/66/75
C41 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.915	17.337	66/66/75
C41 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.915	17.337	66/66/77
C41 2/3/4	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.915	17.337	68/68/86
C41 2/3/4	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.915	17.337	68/68/86
C41 2/3	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	14.915	—	71/71
C41 2/3	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	16.726	—	79/79
C41 2/3	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	16.884	—	79/79
C41 2/3	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	16.884	—	77/77

C 41...HS

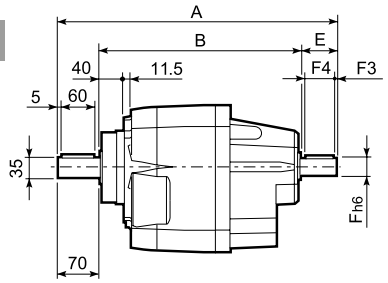
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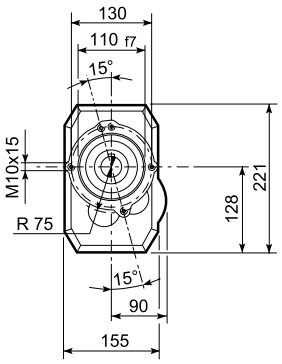


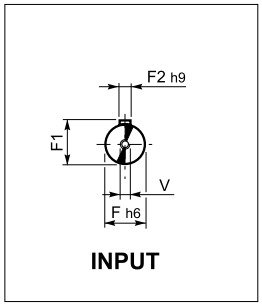




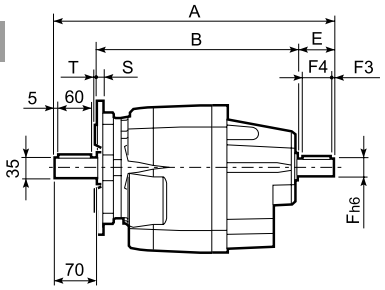
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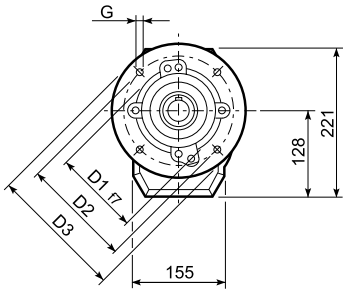






UF



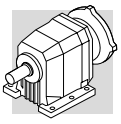


C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

Dimensions are in mm

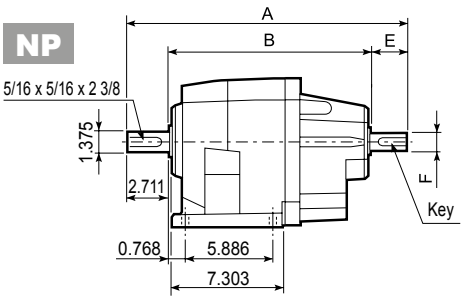
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 41 2	HS	425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 3		425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 4		448	338	40	19	21.5	6	2.5	35	M6x16	33

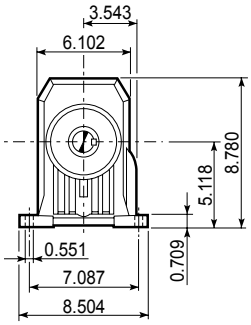
Metric output versions available also in combination with NHS input

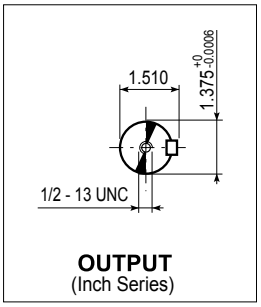


C 41...NHS

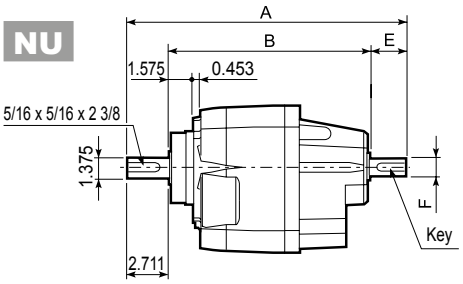
NP

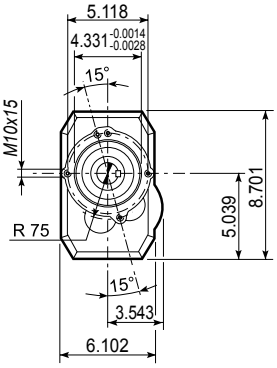


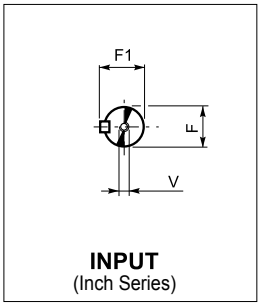




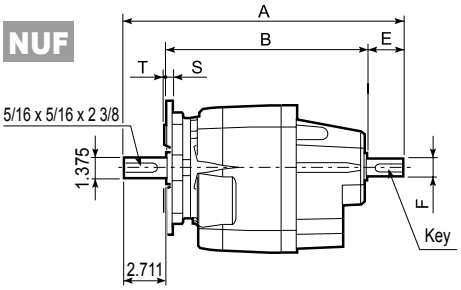
NU

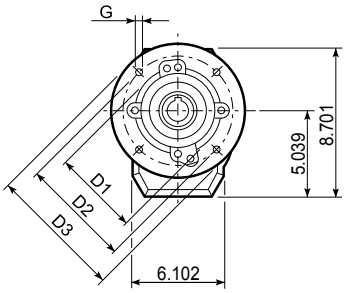






NUF



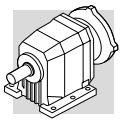


C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensions are in Inch except when shown in *italic [mm]*

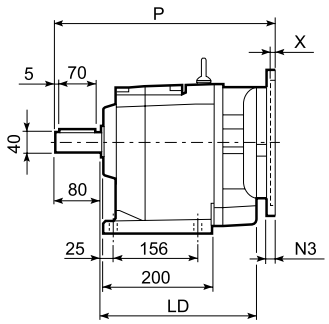
		A	B	E	F	F1	V	Key	lbs
C 41 2	NHS	16.707	12.028	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	66
C 41 3		16.707	12.028	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	66
C 41 4		17.593	13.307	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	73

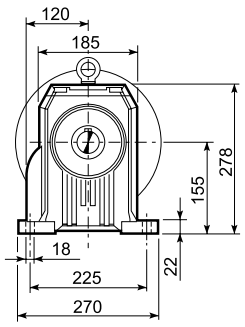
Imperial output versions available also in combination with HS input

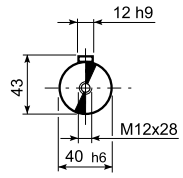


C 51...P(IEC)

P

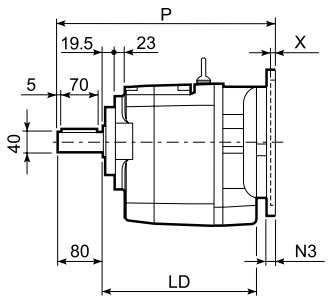


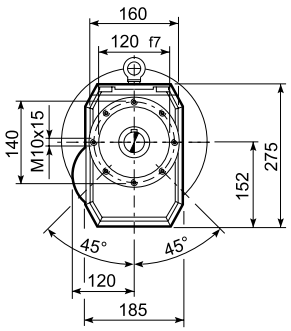


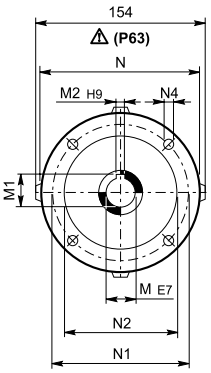


OUTPUT

U

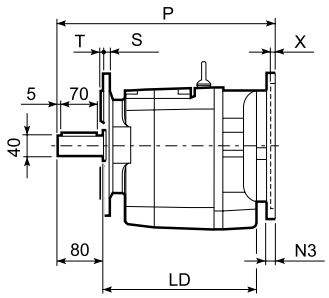


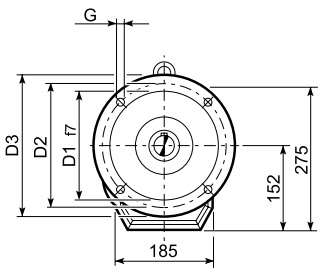




INPUT

UF





C 51_U

	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

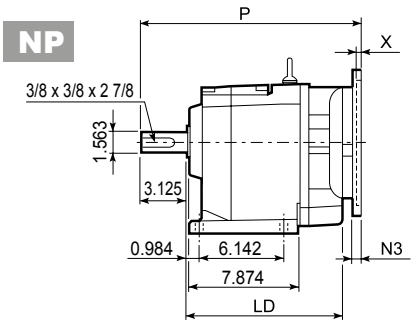
Dimensions are in mm

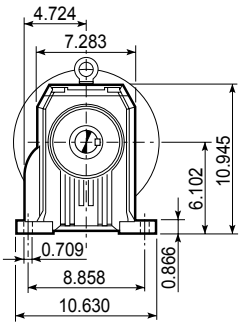
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 51 2/3	**P63**	252.5	11	12.8	4	140	115	95	—	M8x19	4	362.5	45
C 51 2/3	**P71**	252.5	14	16.3	5	160	130	110	—	M8x16	4.5	362.5	45
C 51 2/3	**P80**	267.5	19	21.8	6	200	165	130	—	M10x14.5	4	382	47
C 51 2/3	**P90**	267.5	24	27.3	8	200	165	130	—	M10x14.5	4	382	47
C 51 2/3	**P100**	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	**P112**	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	**P132**	252.5	38	41.3	10	300	265	230	16	14	5	428.5	54
C 51 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	479	58
C 51 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	479	58
C 51 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	434	47
C 51 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	434	47
C 51 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	453.5	49
C 51 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	463.5	49
C 51 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53
C 51 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53

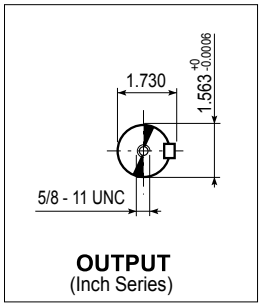
Metric output versions available also in combination with NEMA motor adaptor

C 51...N(NEMA Input)

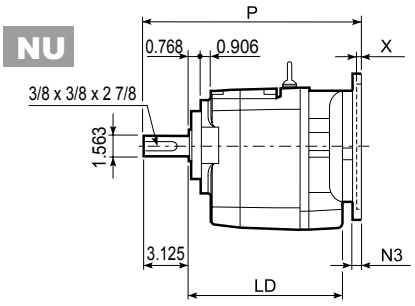
NP

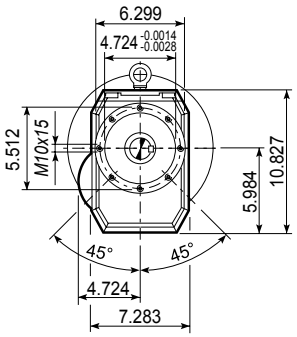


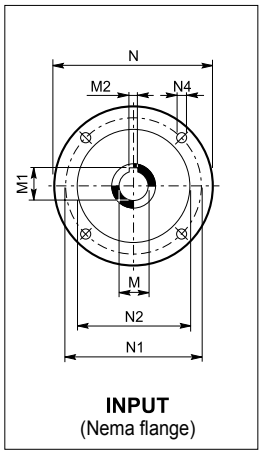




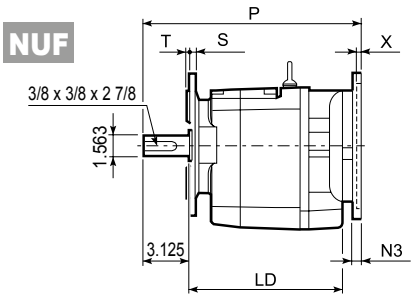
NU

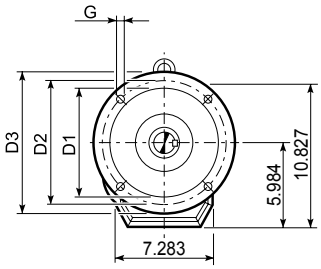






NUF



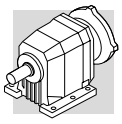


C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 $^{-0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512
FB	9.055 $^{-0.0020}_{-0.0038}$	10.433	11.811	0.551	0.157	0.630

Dimensions are in Inch except when shown in *italic [mm]*

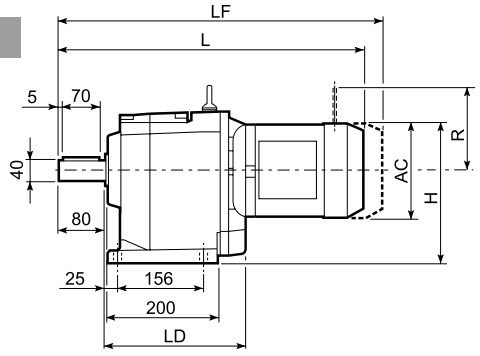
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 51 2/3	**N56C**	9.941	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	15.034	99
C 51 2/3	**N140TC**	9.941	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	15.034	104
C 51 2/3	**N180TC**	10.531	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	15.782	112
C 51 2/3	**N210TC**	9.941	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	17.023	119
C 51 2/3	**N250TC**	—	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0.0014}_{+0}$	13.780	7.250	8.500	—	0.551	0.217	19.818	158
C 51 2/3	**N280TC**	—	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0.0017}_{+0}$	13.740	10.500	9.000	—	0.551	0.217	20.015	161
C 51 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	17.849	104
C 51 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	17.849	108
C 51 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	18.676	117

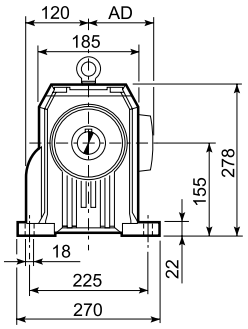
Imperial output versions available also in combination with IEC motor adaptor

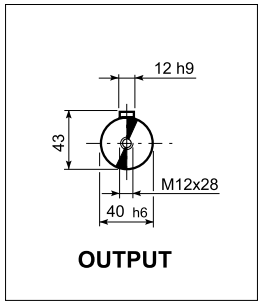


C 51...M/ME/MX

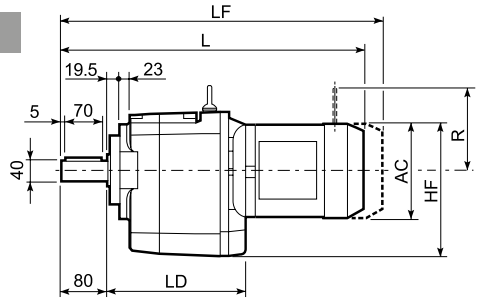
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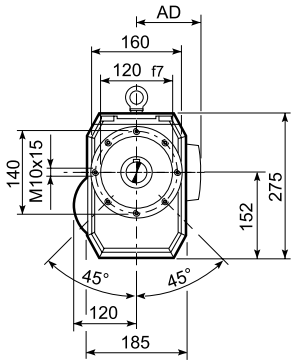




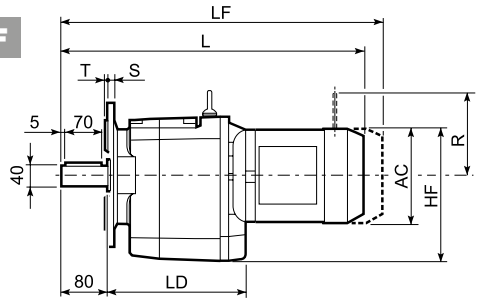


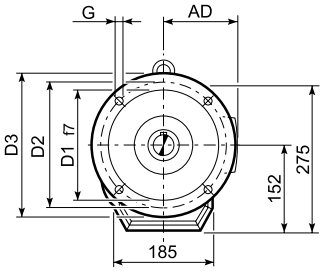
U





UF

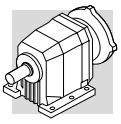




C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

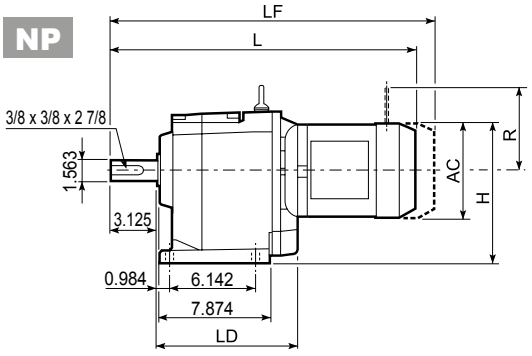
Dimensions are in mm

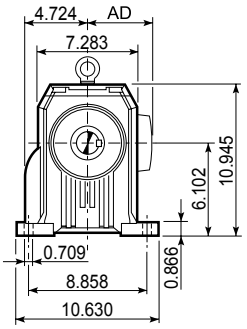
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 51 2/3	S1	M1		138	224	221	517.5	—	108	49	578.5	52	103	135	124	108
C 51 2/3	S1	ME1		138	224	221	517.5	—	108	48	578.5	52	103	135	124	135
C 51 2/3	S2	ME2S		156	233	230	545.5	252.5	119	53	602.5	58	129	143	134	143
C 51 2/3	S2	MX2S		156	233	230	589.5	252.5	119	53	648.5	62	129	143	134	143
C 51 2/3	S3	ME3S		195	252.5	249.5	589.5	267.5	142	60	656.5	66	160	155	160	155
C 51 2/3	S3	ME3L	MX3S	195	252.5	249.5	621.5	267.5	142	65	685.5	70	160	155	160	155
C 51 2/3	S3	MX3L		195	252.5	249.5	665.5	267.5	142	65	727.5	78	160	155	160	155
C 51 2/3	S4	ME4	MX4	258	284	281	729.5	—	193	99	800.5	112	204	210	200	210
C 51 2/3	S4	ME4LB	MX4LA	258	284	281	764.5	—	193	107	825.5	122	204	210	226	210
C 51 2/3	S5	ME5S	MX5S	310	310	307	816	—	245	127	888.5	182	266	245	247	245
C 51 2/3	S5	ME5L	MX5L	310	310	307	860	—	245	143	932.5	193	266	245	247	245
C 51 4	S1	M1		138	224	221	589	—	108	52	650	55	103	135	124	108
C 51 4	S1	ME1		138	224	221	589	—	108	51	650	55	103	135	124	135
C 51 4	S2	ME2S		156	233	230	617	—	119	56	674	61	129	143	134	143
C 51 4	S2	MX2S		156	233	230	661	—	119	56	720	65	129	143	134	143
C 51 4	S3	ME3S		195	252.5	249.5	661	—	142	63	728	69	160	155	160	155
C 51 4	S3	ME3L	MX3S	195	252.5	249.5	693	—	142	68	757	73	160	155	160	155
C 51 4	S3	MX3L		195	252.5	249.5	737	—	142	68	799	81	160	155	160	155

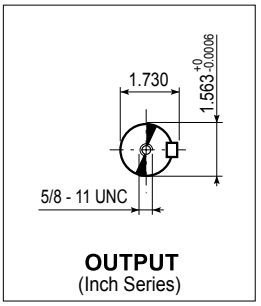


C 51...M/ME/MX

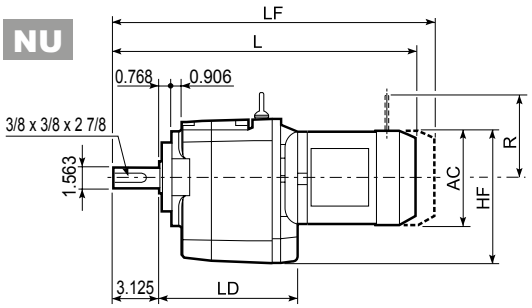
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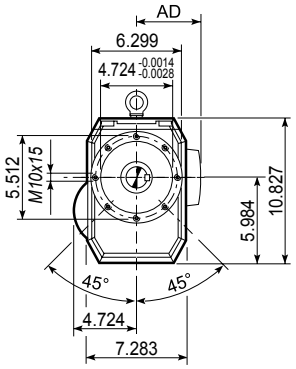




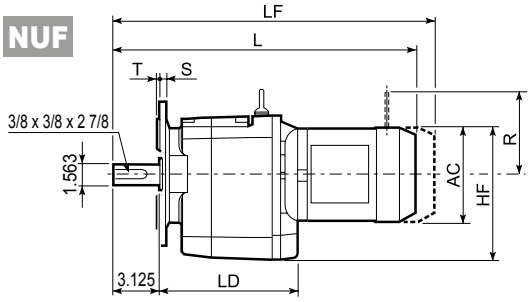


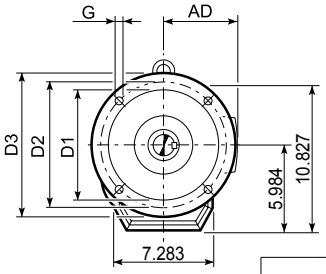
NU





NUF





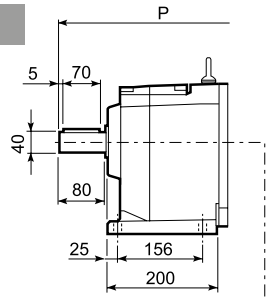
C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512
FB	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630

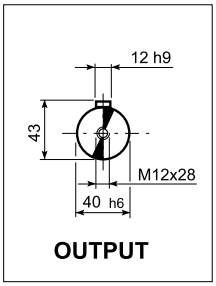
Dimensions are in Inch except when shown in *italic [mm]*

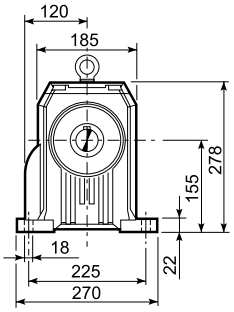
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 51 2/3	S1	M1		5.433	8.819	8.701	20.349	—	4.252	108	22.751	115	4.055	5.315	4.882	4.252
C 51 2/3	S2	ME2S		6.142	9.173	9.055	21.452	9.941	4.685	117	—	—	—	—	—	—
C 51 2/3	S2	MX2S		6.142	9.173	9.055	23.209	9.941	4.685	117	—	—	—	—	—	—
C 51 2/3	S3	ME3S		7.677	9.941	9.823	23.184	10.531	5.591	131	—	—	—	—	—	—
C 51 2/3	S3	MX3S		7.677	9.941	9.823	24.469	10.531	5.591	131	—	—	—	—	—	—
C 51 2/3	S3	ME3L		7.677	9.941	9.823	24.444	10.531	5.591	143	—	—	—	—	—	—
C 51 2/3	S3	MX3L		7.677	9.941	9.823	26.201	10.531	5.591	143	—	—	—	—	—	—
C 51 2/3	S4	ME4	MX4	10.157	11.181	11.063	28.696	—	7.598	218	—	—	—	—	—	—
C 51 2/3	S4	ME4LB	MX4LA	10.157	11.181	11.063	30.074	—	7.598	236	—	—	—	—	—	—
C 51 2/3	S5	ME5S	MX5S	12.205	12.205	12.087	32.101	—	9.646	280	—	—	—	—	—	—
C 51 2/3	S5	ME5L	MX5L	12.205	12.205	12.087	33.834	—	9.646	315	—	—	—	—	—	—
C 51 4	S1	M1		5.433	8.819	8.701	23.164	—	4.252	115	25.566	121	4.055	5.315	4.882	4.252
C 51 4	S2	ME2S		6.142	9.173	9.055	24.267	—	4.685	123	—	—	—	—	—	—
C 51 4	S2	MX2S		6.142	9.173	9.055	26.024	—	4.685	123	—	—	—	—	—	—
C 51 4	S3	ME3S		7.677	9.941	9.823	25.999	—	5.591	138	—	—	—	—	—	—
C 51 4	S3	MX3S		7.677	9.941	9.823	27.283	—	5.591	138	—	—	—	—	—	—
C 51 4	S3	ME3L		7.677	9.941	9.823	27.259	—	5.591	150	—	—	—	—	—	—
C 51 4	S3	MX3L		7.677	9.941	9.823	29.016	—	5.591	150	—	—	—	—	—	—

C 51...SK / SC

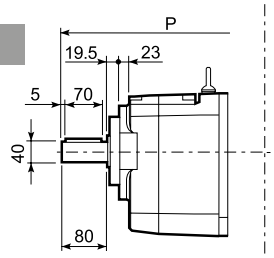
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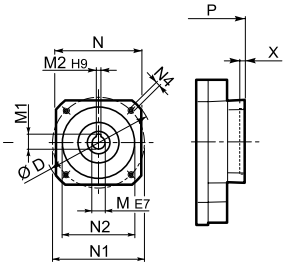




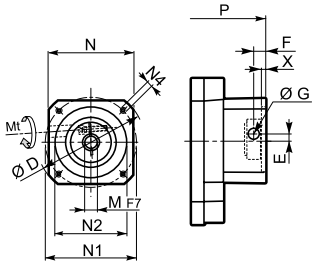


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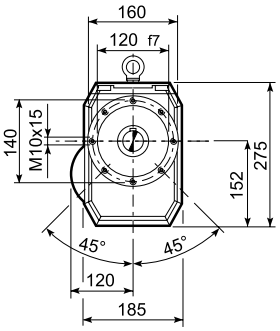




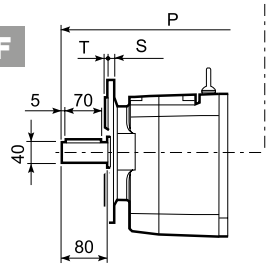
SK...



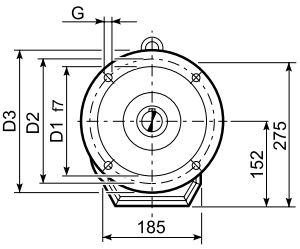
SC...



UF



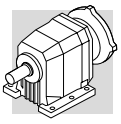
C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16



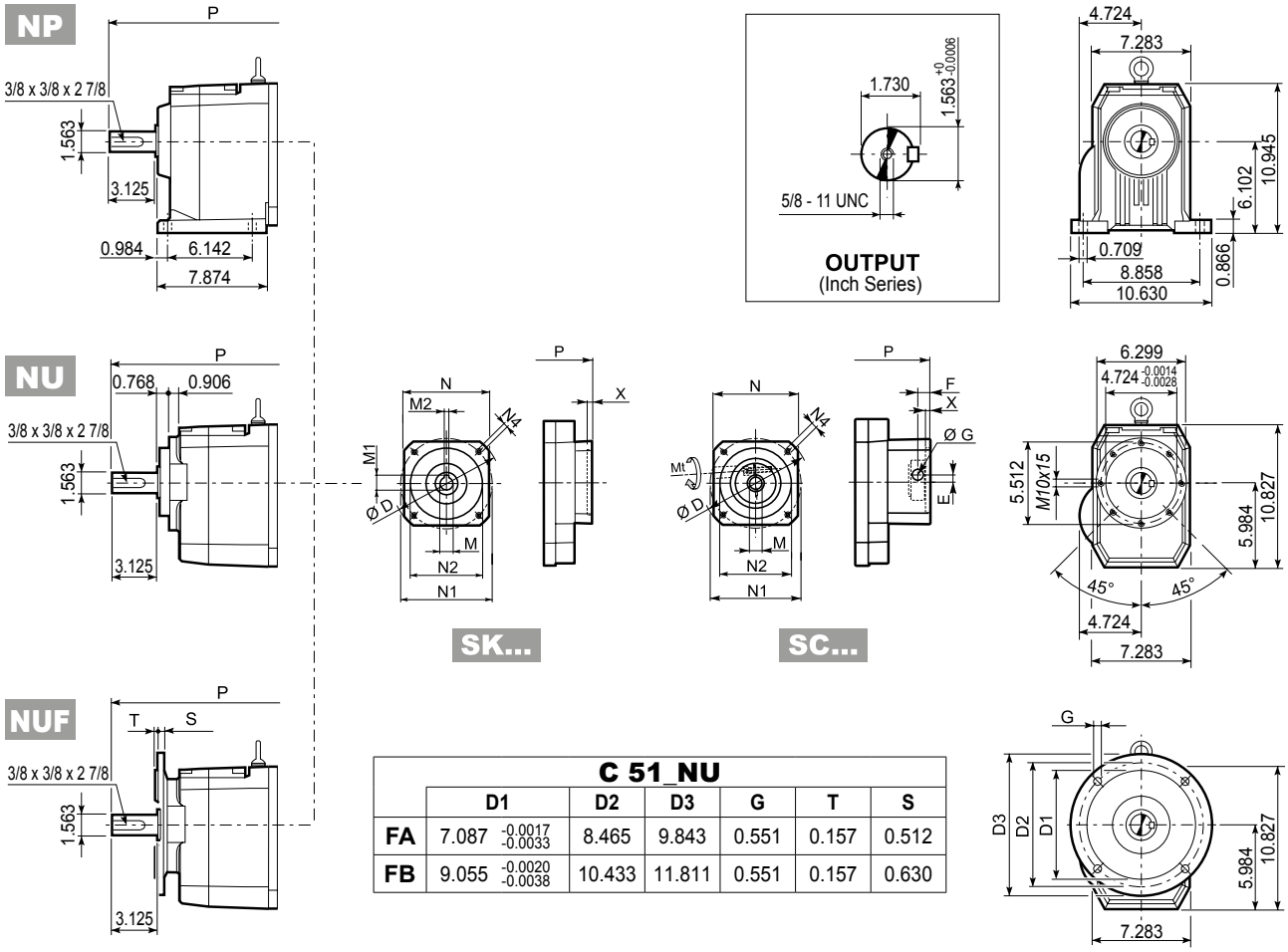
Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 51 2/3	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	382	—	46/46
C 51 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	382	453.5	47/47/49
C 51 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	382	453.5	46/46/48
C 51 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	382	453.5	49/49/52
C 51 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	428.5	—	55/55
C 51 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	428.5	—	55/55
C 51 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	428.5	—	55/55

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 51 2/3	**SC80B**	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	405.5	—	47/47
C 51 2/3/4	**SC80C**	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	405.5	477	48/48/50
C 51 2/3/4	**SC95A**	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	405.5	477	47/47/49
C 51 2/3/4	**SC95B**	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	**SC95C**	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	**SC110A**	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	**SC110B**	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	**SC130A**	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	405.5	477	50/50/53
C 51 2/3	**SC130B**	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	451.5	—	54/54
C 51 2/3	**SC180A**	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	455.5	—	54/54
C 51 2/3	**SC180B**	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	455.5	—	54/54



C 51...SK / SC

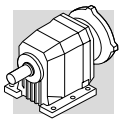


C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512
FB	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630

Dimensions are in Inch except when shown in *italic [mm]*

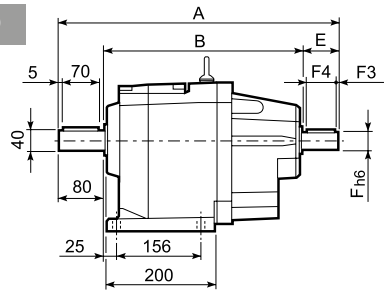
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 51 2/3	**SK80B**	4.724	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	15.015	—	101/101
C 51 2/3/4	**SK80C**	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	15.015	17.830	104/104/108
C 51 2/3/4	**SK95A**	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	15.015	17.830	101/101/106
C 51 2/3/4	**SK95B**	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	15.015	17.830	104/104/108
C 51 2/3/4	**SK95C**	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	15.015	17.830	104/104/108
C 51 2/3/4	**SK110A**	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	15.015	17.830	104/104/112
C 51 2/3/4	**SK110B**	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	15.015	17.830	104/104/112
C 51 2/3/4	**SK130A**	7.402	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	5.591	6.496	5.118	*M10x20*	0.197	15.015	17.830	108/108/115
C 51 2/3	**SK130B**	7.441	1.260 +0.0030 +0.0020	1.390	0.394 +0.0014 +0	6.299	6.496	5.118	*M10x20*	0.197	16.845	—	121/121
C 51 2/3	**SK180A**	9.449	1.260 +0.0030 +0.0020	1.390	0.394 +0.0014 +0	7.559	8.465	7.087	*M12x19*	0.197	16.845	—	121/121
C 51 2/3	**SK180B**	9.449	1.496 +0.0030 +0.0020	1.626	0.394 +0.0014 +0	7.559	8.465	7.087	*M12x19*	0.197	16.845	—	121/121

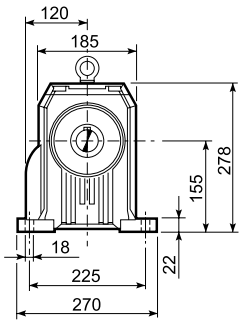
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 51 2/3	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 +0.0013 +0.0006	3.780	3.937	3.150	*M6x12*	0.157	15.940	—	104/104
C 51 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	15.940	18.755	106/106/110
C 51 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	15.940	18.755	104/104/108
C 51 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	15.940	18.755	106/106/110
C 51 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	15.940	18.755	106/106/110
C 51 2/3/4	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	15.940	18.755	108/108/115
C 51 2/3/4	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	15.940	18.755	108/108/115
C 51 2/3/4	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 +0.0016 +0.0008	5.591	6.496	5.118	*M10x20*	0.197	15.940	18.755	110/110/117
C 51 2/3	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 +0.0020 +0.0010	6.299	6.496	5.118	*M10x20*	0.197	17.751	—	119/119
C 51 2/3	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 +0.0020 +0.0010	7.559	8.465	7.087	*M12x24*	0.197	17.908	—	119/119
C 51 2/3	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 +0.0020 +0.0010	7.559	8.465	7.087	*M12x24*	0.197	17.908	—	119/119

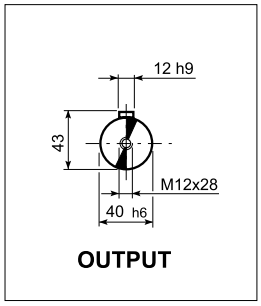


C 51...HS

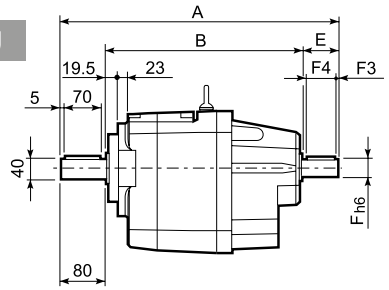
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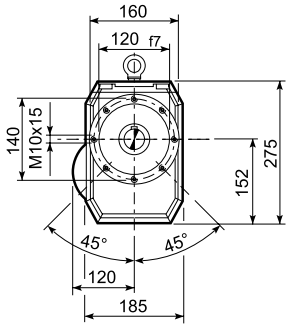


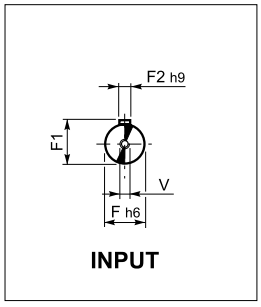




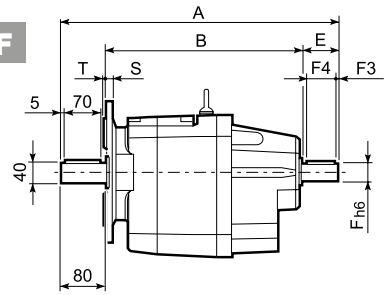
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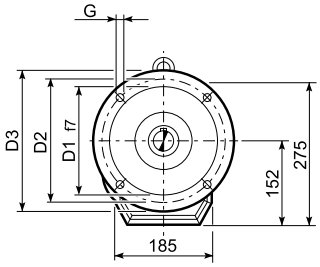






UF



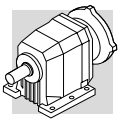


C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

Dimensions are in mm

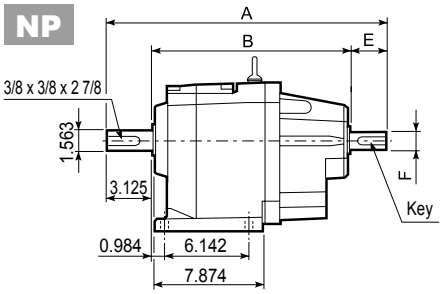
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 51 2	HS	451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 3		451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 4		484	364	40	19	21.5	6	2.5	35	M6x16	48

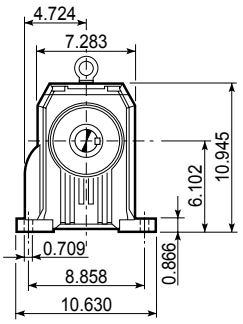
Metric output versions available also in combination with NHS input

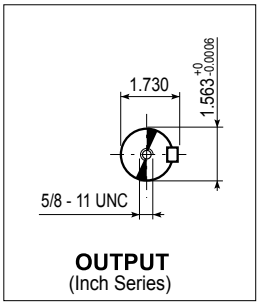


C 51...NHS

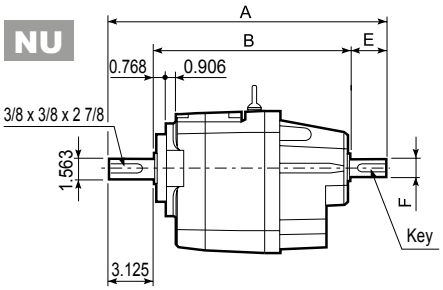
NP

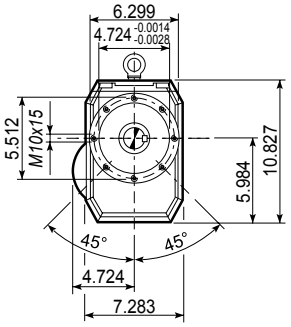


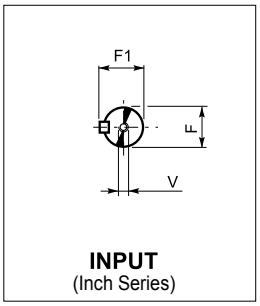




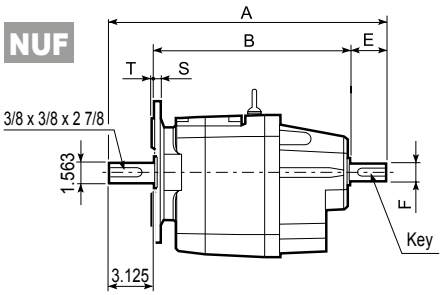
NU

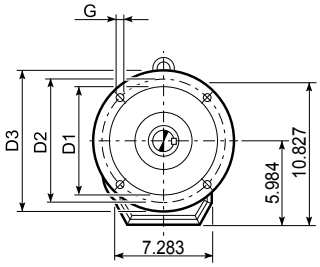






NUF



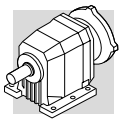


C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512
FB	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630

Dimensions are in Inch except when shown in *italic [mm]*

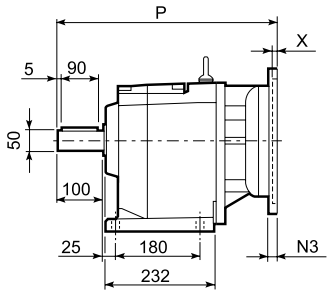
		A	B	E	F	F1	V	Key	lbs
C 51 2	NHS	17.751	12.657	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	99
C 51 3		17.751	12.657	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	99
C 51 4		19.031	14.331	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	106

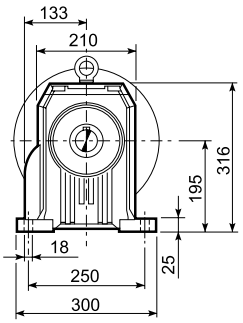
Imperial output versions available also in combination with HS input

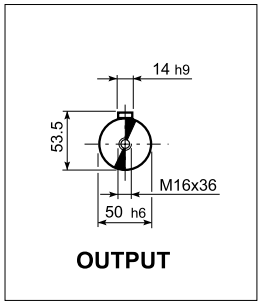


C 61...P(IEC)

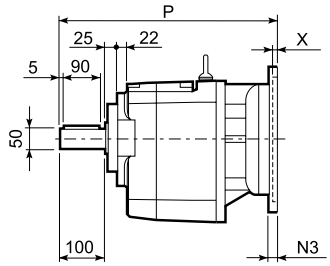
P

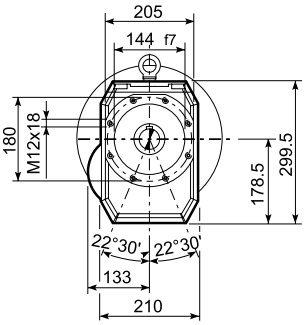


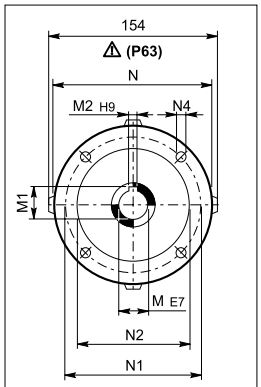




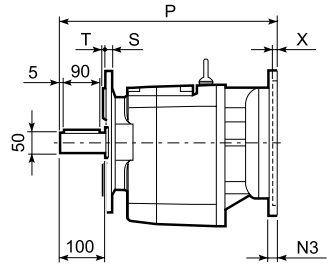
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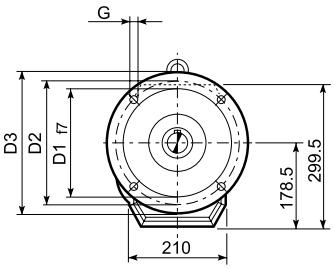






UF





C 61_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

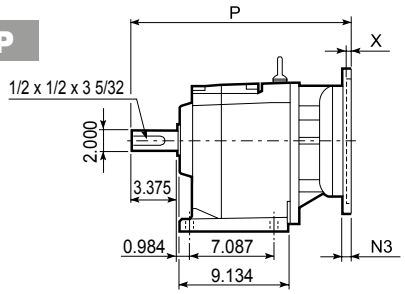
Dimensions are in mm

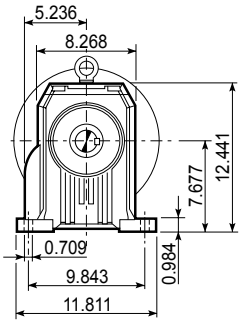
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 61 2/3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	415.5	55
C 61 2/3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	415.5	57
C 61 2/3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	435	61
C 61 2/3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	435	61
C 61 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	481.5	68
C 61 2/3	**P160**	42	45.3	12	350	300	250	23	18	5.5	532	73
C 61 2/3	**P180**	48	51.8	14	350	300	250	23	18	5.5	532	73
C 61 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	486	61
C 61 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	489	63
C 61 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	505.5	67
C 61 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	505.5	67
C 61 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71
C 61 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71

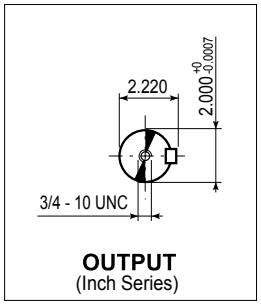
Metric output versions available also in combination with NEMA motor adaptor

C 61...N(NEMA Input)

P

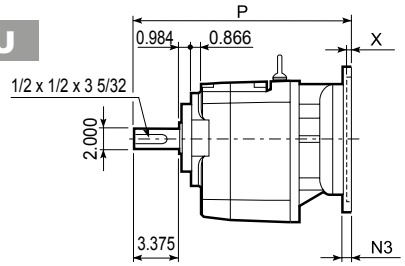


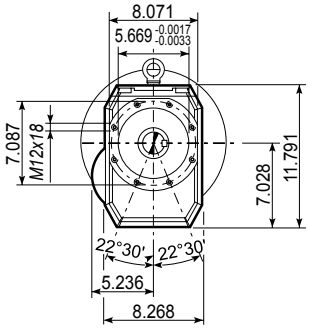


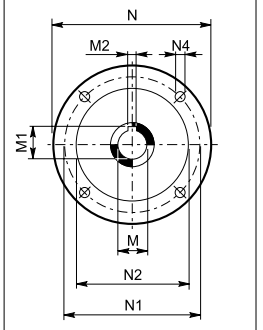


OUTPUT
(Inch Series)

U

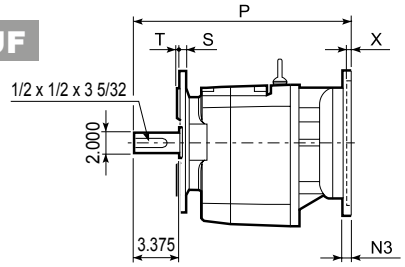


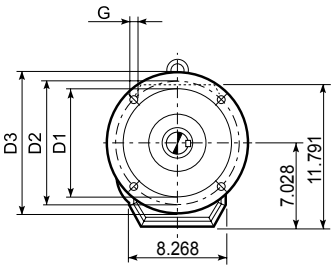




INPUT
(Nema flange)

UF



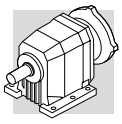


C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630
FB	9.843 -0.0020 -0.0038	11.811	13.780	0.709	0.197	0.709

Dimensions are in Inch except when shown in *italic [mm]*

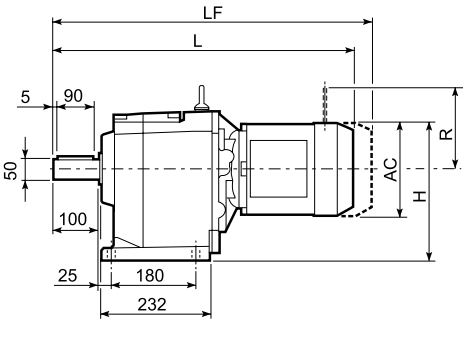
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 61 2/3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.584	126
C 61 2/3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.584	134
C 61 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	17.332	143
C 61 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	18.572	150
C 61 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	21.367	191
C 61 2/3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	21.564	194
C 61 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	19.477	139
C 61 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	19.477	148
C 61 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	20.186	157

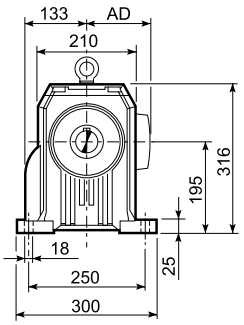
Imperial output versions available also in combination with IEC motor adaptor

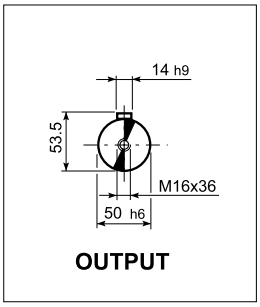


C 61...M/ME/MX

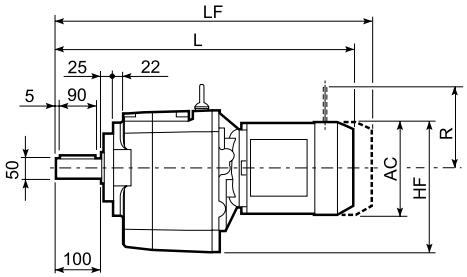
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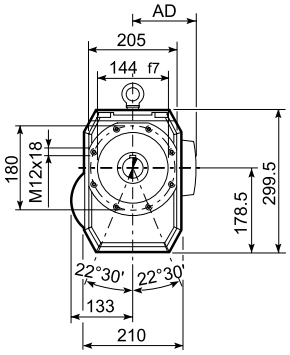




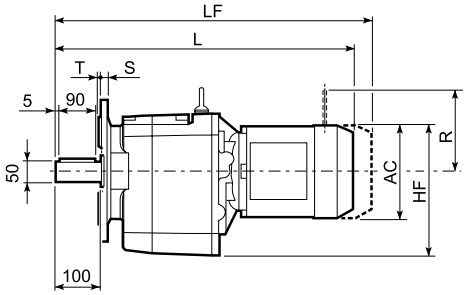


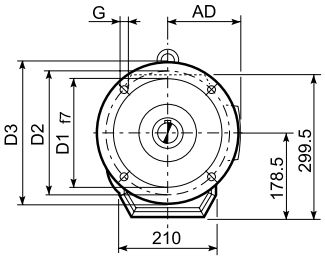
U





UF

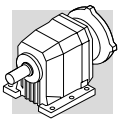




C 61_U						
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

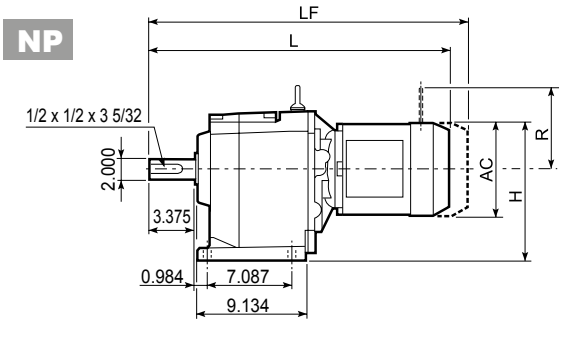
Dimensions are in mm

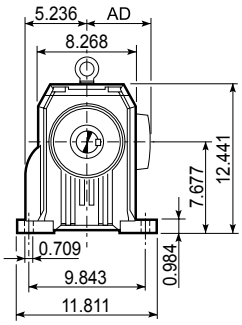
										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 61 2/3	S2	ME2S		156	273	256.5	598.5	119	61	668	65	129	143	134	143
C 61 2/3	S2	MX2S		156	273	256.5	642.5	119	66	714	69	129	143	134	143
C 61 2/3	S3	ME3S		195	292.5	276	642.5	142	68	722	73	160	155	160	150
C 61 2/3	S3	ME3L	MX3S	195	292.5	276	674.5	142	74	751	77	160	155	160	150
C 61 2/3	S3	MX3L		195	292.5	276	718.5	142	80	793	85	160	155	160	150
C 61 2/3	S4	ME4	MX4	258	324	307.5	782.5	193	108	866	119	204	210	200	210
C 61 2/3	S4	ME4LB	MX4LA	258	324	307.5	817.5	193	116	890	129	204	210	226	210
C 61 2/3	S5	ME5S	MX5S	310	350	333.5	869	245	136	954	189	266	245	247	245
C 61 2/3	S5	ME5L	MX5L	310	350	333.5	913	245	152	998	200	266	245	247	245
C 61 4	S1	M1		138	264	247.5	641	108	71	702	74	103	135	124	108
C 61 4	S1	ME1		138	264	247.5	641	108	70	702	74	103	135	124	135
C 61 4	S2	ME2S		156	273	256.5	669	119	75	726	80	129	143	134	143
C 61 4	S2	MX2S		156	273	256.5	713	119	80	772	84	129	143	134	143
C 61 4	S3	ME3S		195	292.5	276	713	142	81	780	88	160	155	160	155
C 61 4	S3	ME3L	MX3S	195	292.5	276	745	142	87	809	92	160	155	160	155
C 61 4	S3	MX3L		195	292.5	276	789	142	93	851	100	160	155	160	155

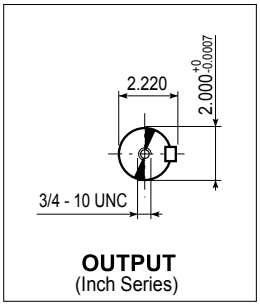


C 61...M/ME/MX

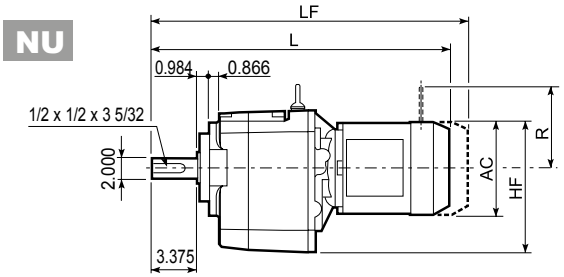
NP

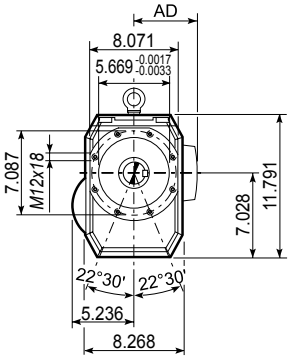




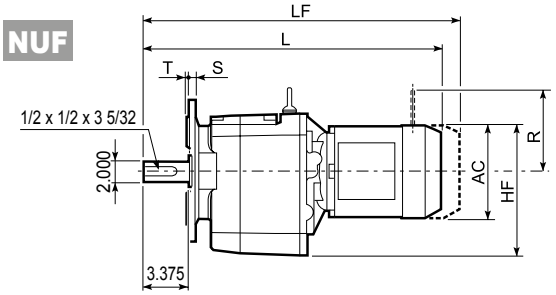


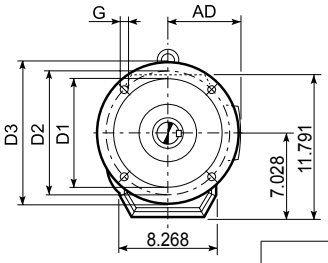
NU





NUF

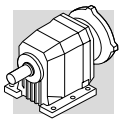




C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630
FB	9.843 -0.0020 -0.0038	11.811	13.780	0.709	0.197	0.709

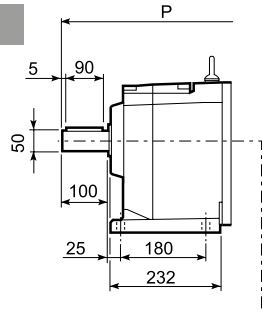
Dimensions are in Inch except when shown in *italic [mm]*

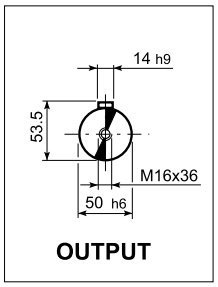
										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 61 2/3	S2	ME2S		6.142	10.748	10.098	23.001	4.685	134	—	—	—	—	—	—
C 61 2/3	S2	MX2S		6.142	10.748	10.098	25.295	4.685	146	—	—	—	—	—	—
C 61 2/3	S3	ME3S		7.677	11.516	10.866	24.733	5.591	149	—	—	—	—	—	—
C 61 2/3	S3	MX3S		7.677	11.516	10.866	26.555	5.591	155	—	—	—	—	—	—
C 61 2/3	S3	ME3L		7.677	11.516	10.866	25.993	5.591	163	—	—	—	—	—	—
C 61 2/3	S3	MX3L		7.677	11.516	10.866	28.287	5.591	176	—	—	—	—	—	—
C 61 2/3	S4	ME4	MX4	10.157	12.756	12.106	30.245	7.598	238	—	—	—	—	—	—
C 61 2/3	S4	ME4LB	MX4LA	10.157	12.756	12.106	31.623	7.598	256	—	—	—	—	—	—
C 61 2/3	S5	ME5S	MX5S	12.205	13.780	13.130	33.651	9.646	300	—	—	—	—	—	—
C 61 2/3	S5	ME5L	MX5L	12.205	13.780	13.130	35.383	9.646	335	—	—	—	—	—	—
C 61 4	S1	M1		5.433	10.394	9.744	24.674	4.252	157	27.076	163	4.055	5.315	4.882	4.252
C 61 4	S2	ME2S		6.142	10.748	10.098	25.777	4.685	165	—	—	—	—	—	—
C 61 4	S2	MX2S		6.142	10.748	10.098	28.071	4.685	177	—	—	—	—	—	—
C 61 4	S3	ME3S		7.677	11.516	10.866	27.509	5.591	177	—	—	—	—	—	—
C 61 4	S3	MX3S		7.677	11.516	10.866	29.331	5.591	184	—	—	—	—	—	—
C 61 4	S3	ME3L		7.677	11.516	10.866	28.769	5.591	192	—	—	—	—	—	—
C 61 4	S3	ME3L		7.677	11.516	10.866	31.063	5.591	205	—	—	—	—	—	—

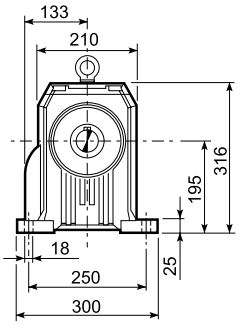


C 61...SK / SC

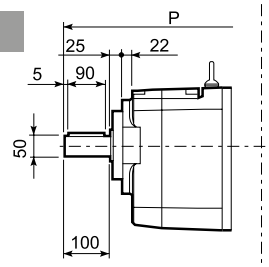
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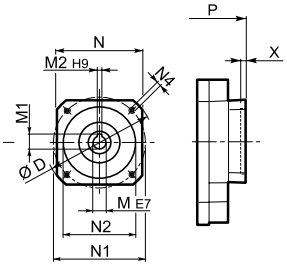


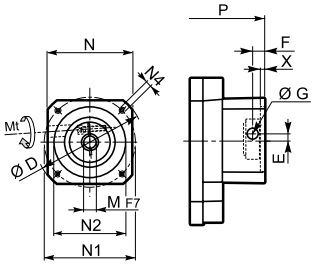


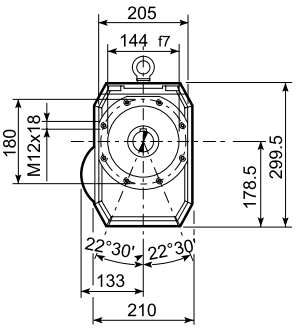


U



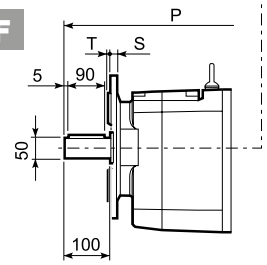




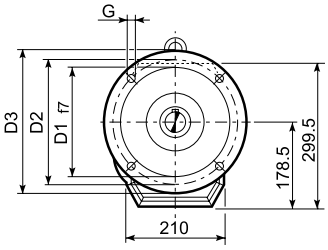


SK... **SC...**

UF



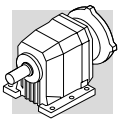
C 61_U						
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18



Dimensions are in mm

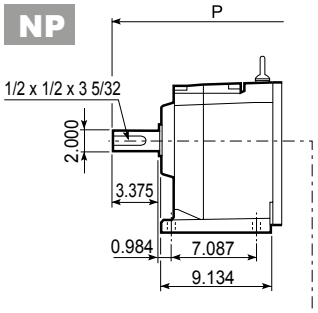
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 61 4	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	—	505.5	62
C 61 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	435	505.5	63/63/69
C 61 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	435	505.5	60/60/67
C 61 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	**SK110A**	140	19	21.8	6	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	**SK110B**	140	24	27.3	8	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	435	505.5	67/67/80
C 61 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	481.5	—	72/72
C 61 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	481.5	—	72/72
C 61 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	481.5	—	66/66

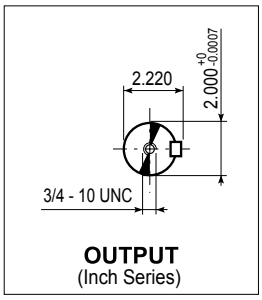
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 61 4	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	529	63
C 61 2/3/4	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	458.5	529	64/64/70
C 61 2/3/4	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	458.5	529	61/61/68
C 61 2/3/4	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	**SC110A**	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	**SC110B**	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	458.5	529	66/66/81
C 61 2/3	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	504.5	—	75/75
C 61 2/3	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	508.5	—	75/75
C 61 2/3	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	508.5	—	69/69

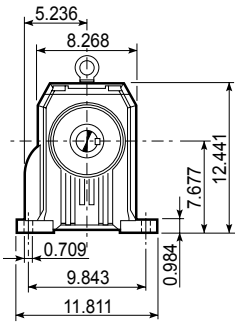


C 61...SK / SC

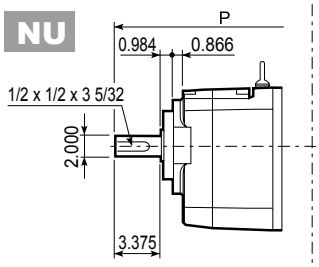
NP

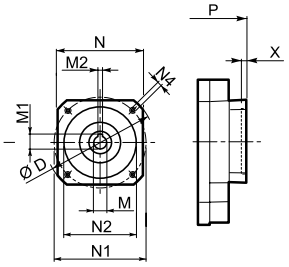




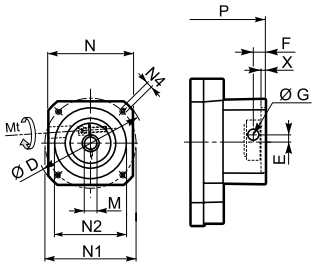


NU

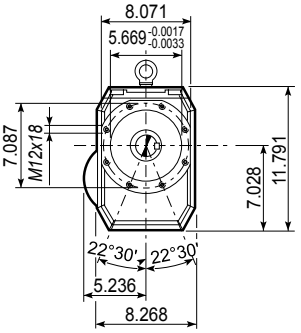




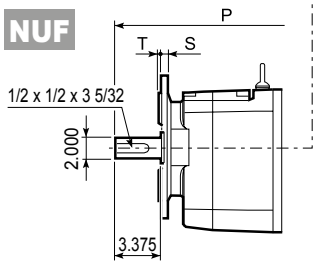
SK...



SC...

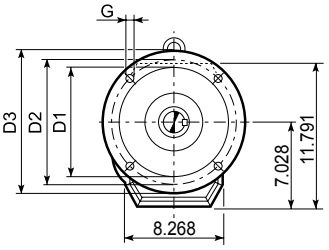


NUF



C 61_NU

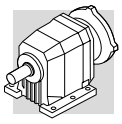
	D1	D2	D3	G	T	S
FA	9.055 $^{-0.0020}_{-0.0038}$	10.433	11.811	0.551	0.157	0.630
FB	9.843 $^{-0.0020}_{-0.0038}$	11.811	13.780	0.709	0.197	0.709



Dimensions are in Inch except when shown in *italic [mm]*

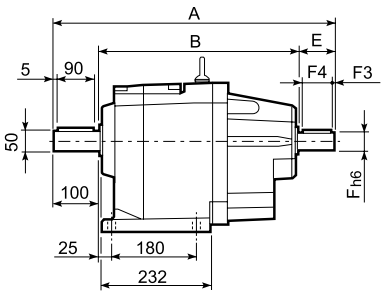
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 61 4	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	—	19.340	137
C 61 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	16.564	19.340	139/139/152
C 61 2/3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	16.564	19.340	132/132/148
C 61 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	16.564	19.340	139/139/152
C 61 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	16.564	19.340	139/139/152
C 61 2/3/4	**SK110A**	5.512	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	16.564	19.340	139/139/152
C 61 2/3/4	**SK110B**	5.512	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	16.564	19.340	139/139/152
C 61 2/3/4	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	16.564	19.340	148/148/176
C 61 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	18.395	—	159/159
C 61 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	18.395	—	159/159
C 61 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	18.395	—	146/146

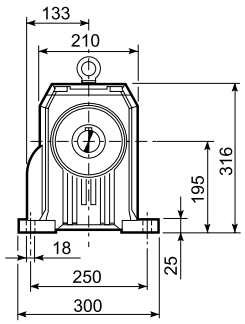
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 61 4	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	—	20.265	139/104
C 61 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	17.489	20.265	141/141/154
C 61 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	17.489	20.265	134/134/150
C 61 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	17.489	20.265	141/141/154
C 61 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	17.489	20.265	141/141/154
C 61 2/3/4	**SC110A**	*M6* 133	5.512	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	17.489	20.265	143/143/154
C 61 2/3/4	**SC110B**	*M6* 133	5.512	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	17.489	20.265	143/143/154
C 61 2/3/4	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	17.489	20.265	146/146/179
C 61 2/3	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	19.300	—	165/165
C 61 2/3	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	19.458	—	165/165
C 61 2/3	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	19.458	—	152/152

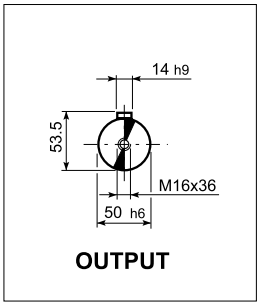


C 61...HS

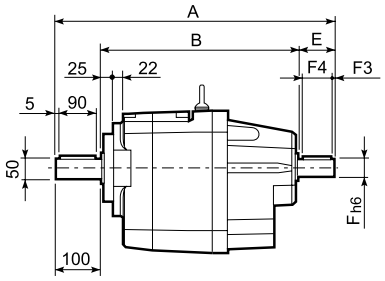
P

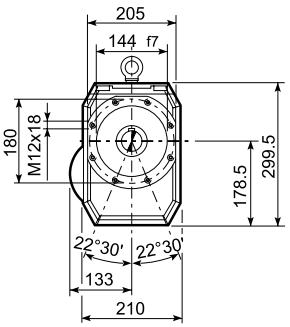


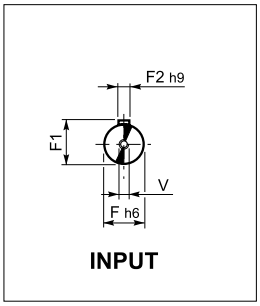




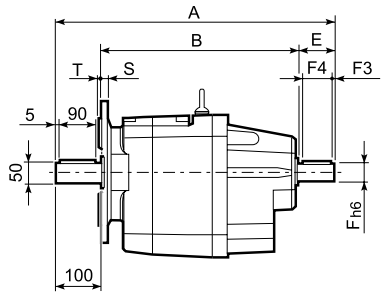
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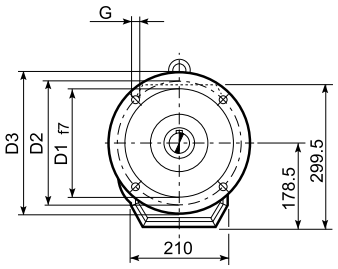






UF





C 61_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

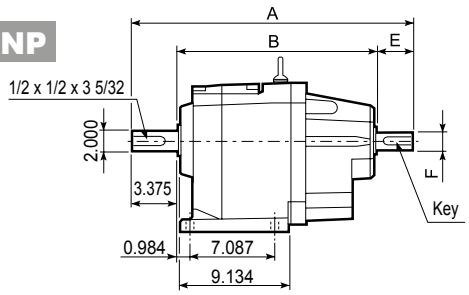
Dimensions are in mm

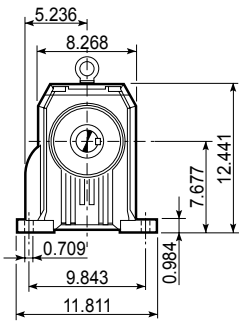
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 61 2		532	372	60	28	31	8	5	50	M10x22	66
C 61 3	**HS**	532	372	60	28	31	8	5	50	M10x22	66
C 61 4		575	425	50	24	27	8	2.5	45	M8x19	72

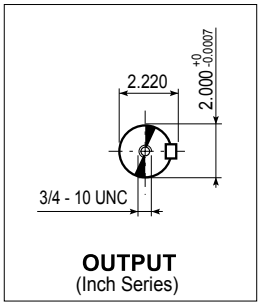
Metric output versions available also in combination with NHS input

C 61...NHS

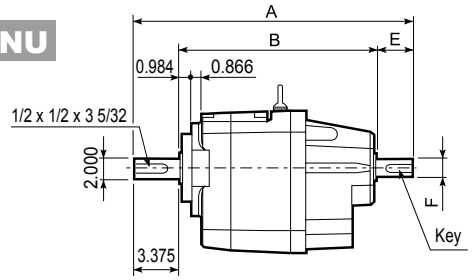
NP

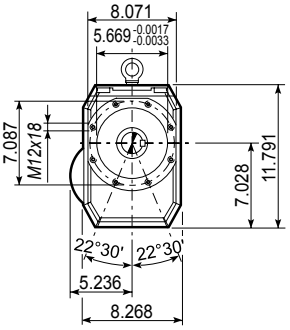


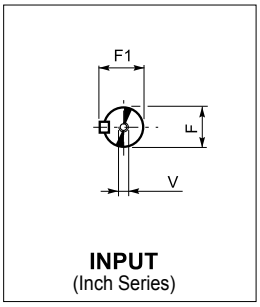




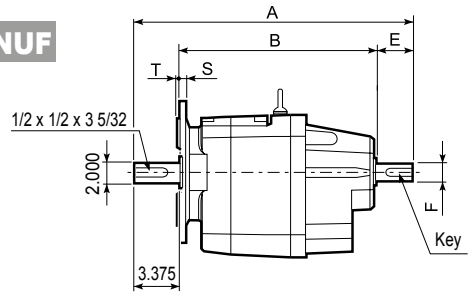
NU

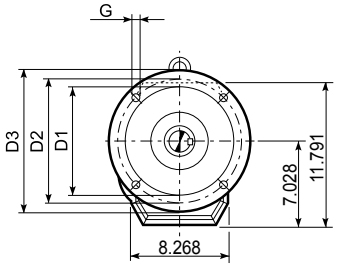






NUF



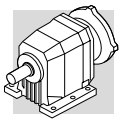


C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630
FB	9.843 -0.0020 -0.0038	11.811	13.780	0.709	0.197	0.709

Dimensions are in Inch except when shown in *italic [mm]*

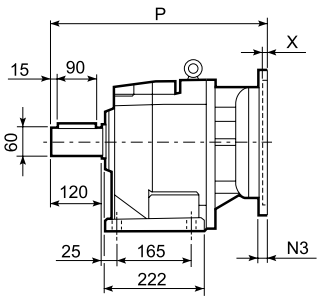
		A	B	E	F	F1	V	Key	lbs
C 61 2	NHS	20.383	14.646	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	146
C 61 3		20.383	14.646	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	146
C 61 4		22.076	16.732	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	159

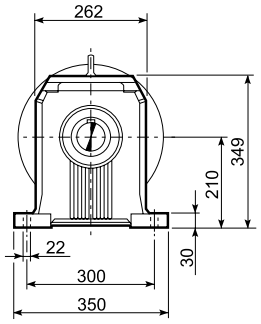
Imperial output versions available also in combination with HS input

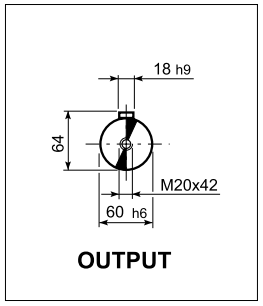


C 70...P(IEC)

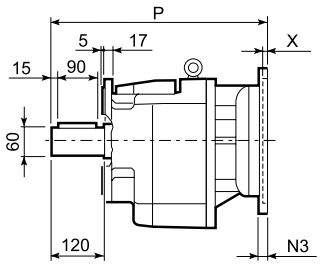
P

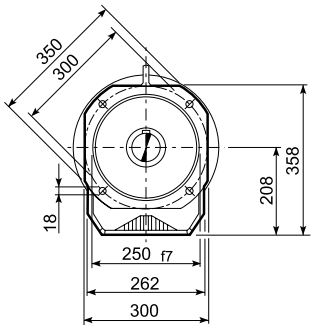


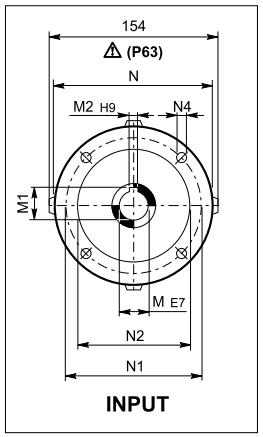




F







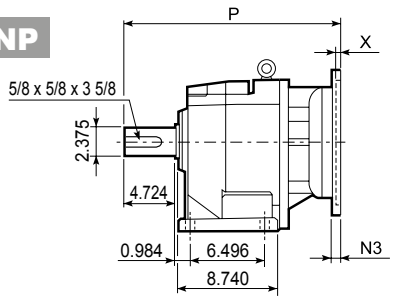
Dimensions are in mm

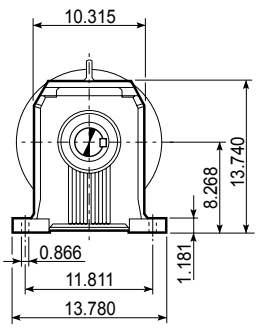
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 70 2/3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	473	88
C 70 2/3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	473	88
C 70 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	519.5	95
C 70 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	575	107
C 70 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	575	107
C 70 2	**P200**	55	59.3	16	400	350	300	—	M16x25	7	600	129
C 70 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	504.5	91
C 70 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	504.5	91
C 70 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	524	92
C 70 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	524	92
C 70 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	**P132**	38	41.3	10	300	265	230	16	14	5	570.5	98

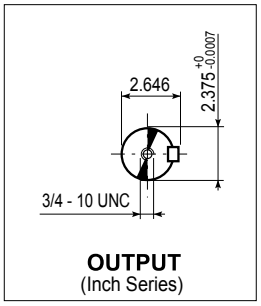
Metric output versions available also in combination with NEMA motor adaptor

C 70...N(NEMA Input)

NP

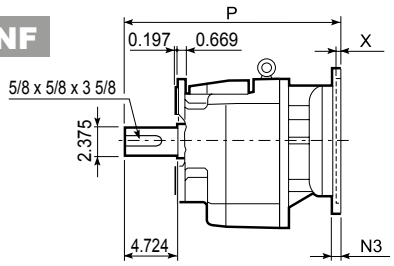


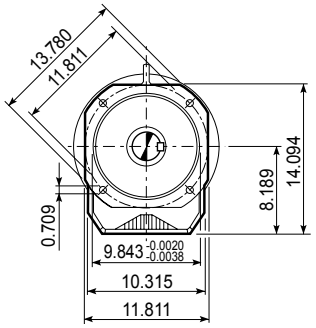


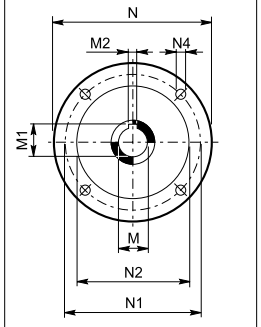


OUTPUT
(Inch Series)

NF







INPUT
(Nema flange)

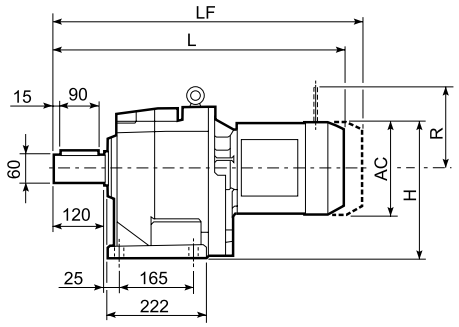
Dimensions are in Inch except when shown in *italic [mm]*

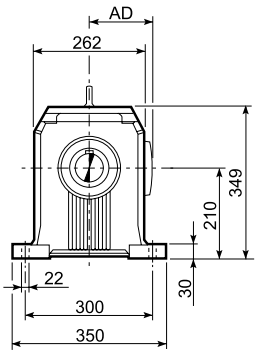
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 70 2/3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	18.819	194
C 70 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	19.390	203
C 70 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	20.630	209
C 70 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	23.622	266
C 70 2	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	23.819	269
C 70 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	20.650	201
C 70 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	20.650	203
C 70 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.398	212
C 70 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	22.638	216

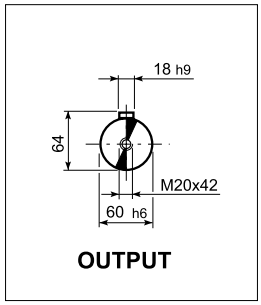
Imperial output versions available also in combination with IEC motor adaptor

C 70...M/ME/MX

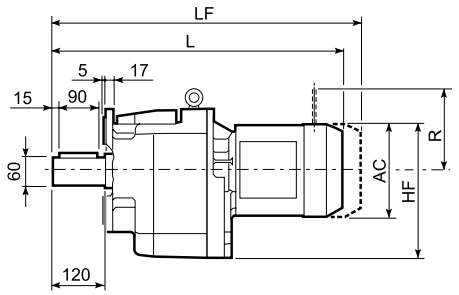
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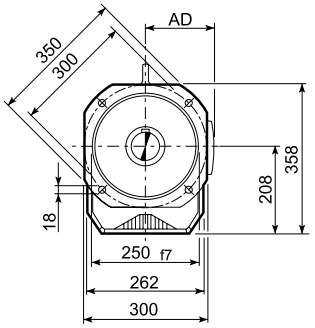






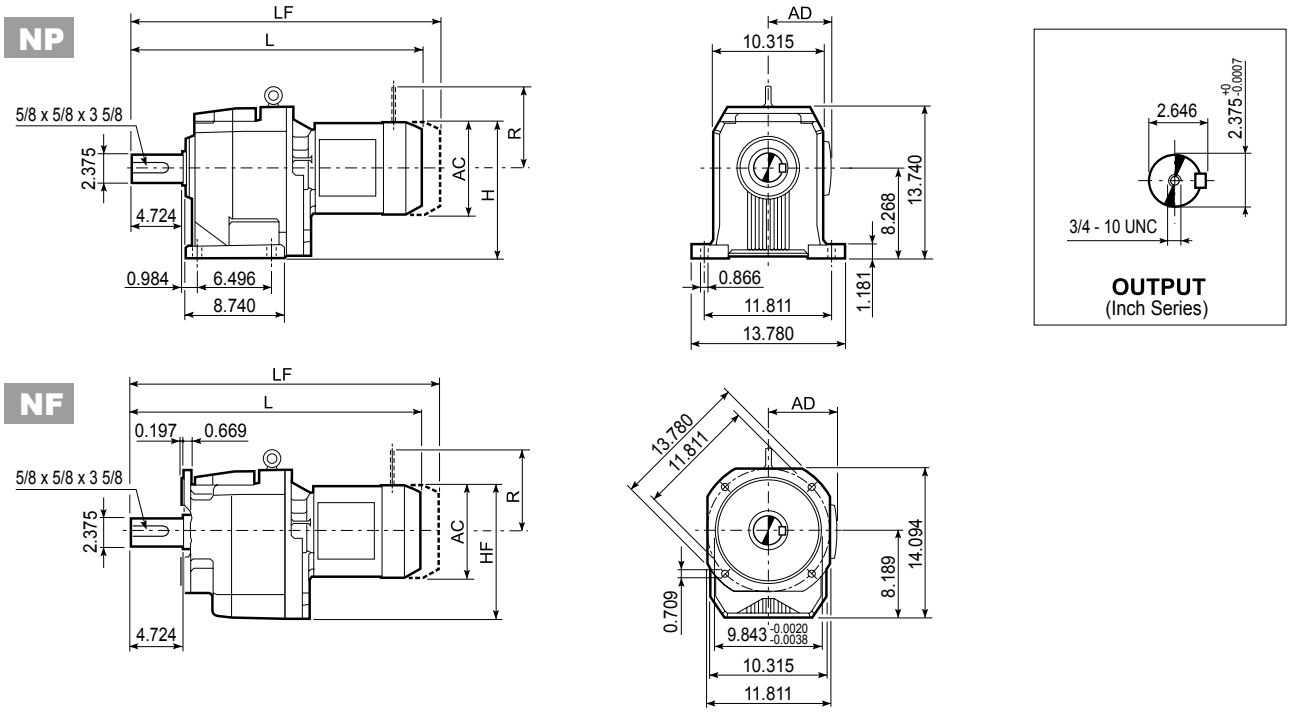
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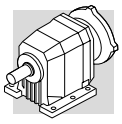
Dimensions are in mm

										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 70 2/3	**S2**	**ME2S**		156	288	286	636.5	119	88	706.5	92	129	143	134	143
C 70 2/3	**S2**	**MX2S**		156	288	286	680.5	119	93	725.5	96	129	143	134	143
C 70 2/3	**S3**	**ME3S**		195	307.5	305.5	680.5	142	95	760.5	100	160	155	160	155
C 70 2/3	**S3**	**MX3S**		195	307.5	305.5	680.5	142	98	789.5	103	160	155	160	155
C 70 2/3	**S3**	**ME3L**		195	307.5	305.5	712.5	142	101	787.5	104	160	155	160	155
C 70 2/3	**S3**	**MX3L**		195	307.5	305.5	756.5	142	107	831.5	112	160	155	160	155
C 70 2/3	**S4**	**ME4**	**MX4**	258	339	337	820.5	193	135	904.5	146	204	210	200	210
C 70 2/3	**S4**	**ME4LB**	**MX4LA**	258	339	337	855.5	193	143	929.5	159	204	210	226	210
C 70 2/3	**S5**	**ME5S**	**MX5S**	310	365	363	907	245	163	992.5	216	266	245	247	245
C 70 2/3	**S5**	**ME5L**	**MX5L**	310	365	363	951	245	179	1036.5	227	266	245	247	245
C 70 4	**S1**	**M1**		138	279	277	659.5	108	88	720.5	91	103	135	124	108
C 70 4	**S1**	**ME1**		138	279	277	659.5	108	88	720.5	91	103	135	124	135
C 70 4	**S2**	**ME2S**		156	288	286	687.5	119	92	744.5	97	129	143	134	143
C 70 4	**S2**	**MX2S**		156	288	286	731.5	119	97	790.5	101	129	143	134	143
C 70 4	**S3**	**ME3S**		195	307.5	305.5	731.5	142	99	798.5	105	160	155	160	155
C 70 4	**S3**	**ME3L**	**MX3S**	195	307.5	305.5	763.5	142	104	827.5	109	160	155	160	155
C 70 4	**S3**	**MX3L**		195	307.5	305.5	807.5	142	110	869.5	117	160	155	160	155
C 70 4	**S4**	**ME4**	**MX4**	258	339	337	871.5	193	138	942.5	151	204	210	200	210
C 70 4	**S4**	**ME4LB**	**MX4LA**	258	339	337	906.5	193	146	966.5	161	204	210	226	210



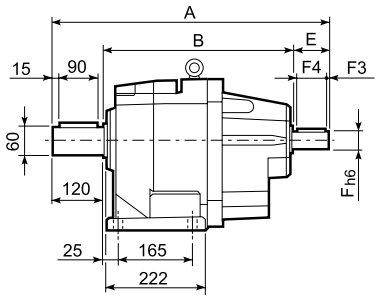
Dimensions are in Inch except when shown in *italic [mm]*

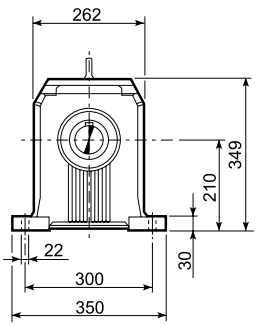
										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 70 2/3	**S2**	**ME2S**		6.142	11.339	11.260	25.059	4.685	194	—	—	—	—	—	—
C 70 2/3	**S2**	**MX2S**		6.142	11.339	11.260	26.791	4.685	205	—	—	—	—	—	—
C 70 2/3	**S3**	**ME3S**		7.677	12.106	12.028	26.791	5.591	208	—	—	—	—	—	—
C 70 2/3	**S3**	**MX3S**		7.677	12.106	12.028	26.791	5.591	215	—	—	—	—	—	—
C 70 2/3	**S3**	**ME3L**		7.677	12.106	12.028	28.051	5.591	223	—	—	—	—	—	—
C 70 2/3	**S3**	**MX3L**		7.677	12.106	12.028	29.783	5.591	236	—	—	—	—	—	—
C 70 2/3	**S4**	**ME4**	**MX4**	10.157	13.346	13.268	32.303	7.598	298	—	—	—	—	—	—
C 70 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	13.346	13.268	33.681	7.598	315	—	—	—	—	—	—
C 70 2/3	**S5**	**ME5S**	**MX5S**	12.205	14.370	14.291	35.709	9.646	359	—	—	—	—	—	—
C 70 2/3	**S5**	**ME5L**	**MX5L**	12.205	14.370	14.291	37.441	9.646	395	—	—	—	—	—	—
C 70 4	**S1**	**M1**		5.433	10.984	10.906	25.965	4.252	194	28.366	201	4.055	5.315	4.882	4.252
C 70 4	**S2**	**ME2S**		6.142	11.339	11.260	27.067	4.685	203	—	—	—	—	—	—
C 70 4	**S2**	**MX2S**		6.142	11.339	11.260	28.799	4.685	214	—	—	—	—	—	—
C 70 4	**S3**	**ME3S**		7.677	12.106	12.028	28.799	5.591	217	—	—	—	—	—	—
C 70 4	**S3**	**MX3S**		7.677	12.106	12.028	30.059	5.591	224	—	—	—	—	—	—
C 70 4	**S3**	**ME3L**		7.677	12.106	12.028	30.059	5.591	229	—	—	—	—	—	—
C 70 4	**S3**	**MX3L**		7.677	12.106	12.028	31.791	5.591	243	—	—	—	—	—	—
C 70 4	**S4**	**ME4**	**MX4**	10.157	13.346	13.268	34.311	7.598	304	—	—	—	—	—	—
C 70 4	**S4**	**ME4LB**	**MX4LA**	10.157	13.346	13.268	35.689	7.598	322	—	—	—	—	—	—

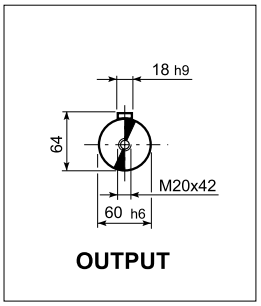


C 70...HS

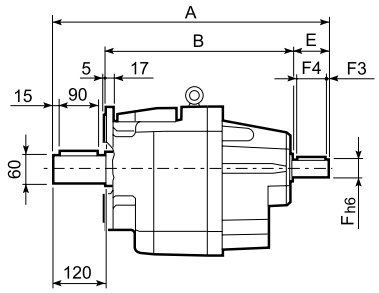
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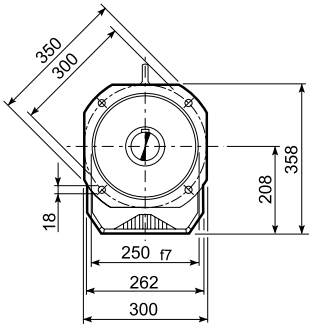


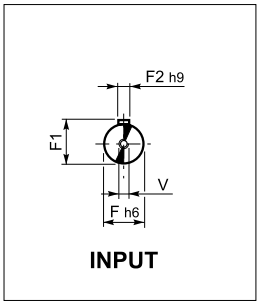




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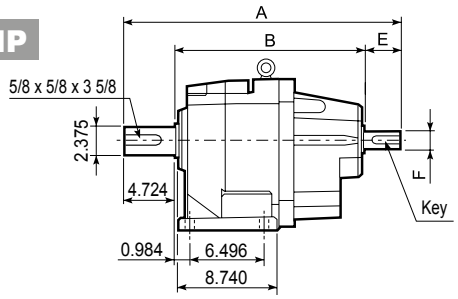
Dimensions are in mm

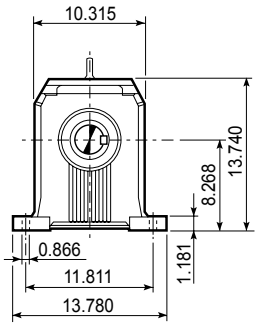
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 70 2	**HS**	657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 3		657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 4		593.5	423.5	50	24	27	8	2.5	45	M8x19	94

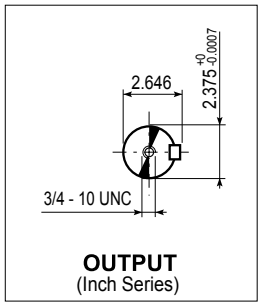
Metric output versions available also in combination with NHS input

C 70...NHS

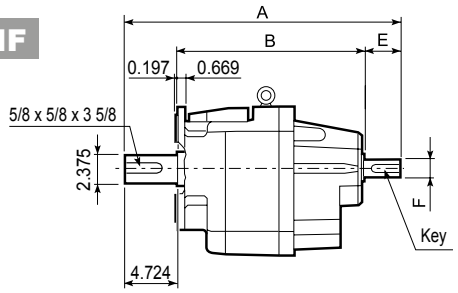
NP

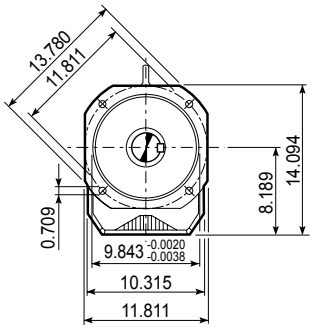


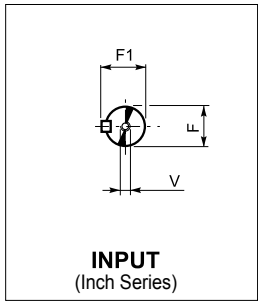




NF







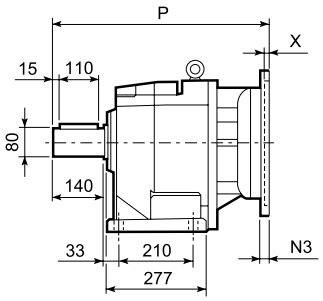
Dimensions are in Inch except when shown in *italic [mm]*

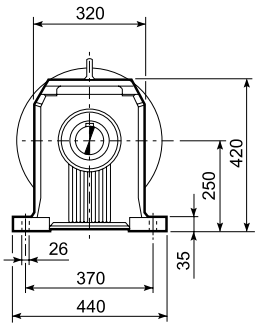
		A	B	E	F	F1	V	Key	lbs
C 70 2		25.805	16.831	4.250	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	238
C 70 3	**NHS**	25.805	16.831	4.250	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	238
C 70 4		23.366	16.673	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	207

Imperial output versions available also in combination with HS input

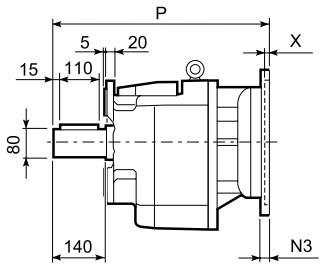
C 80...P(IEC)

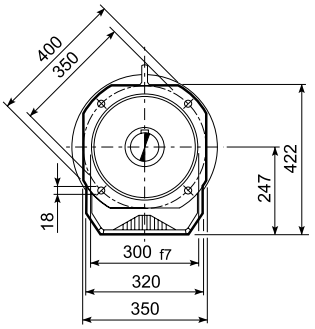
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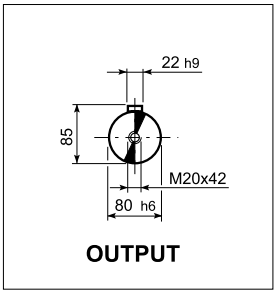




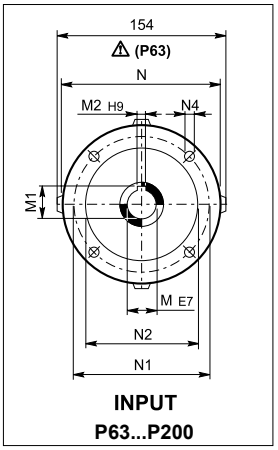
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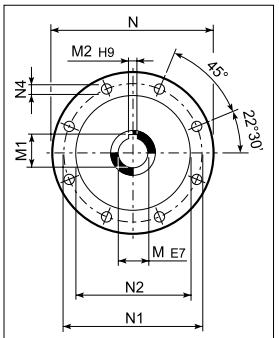




OUTPUT



INPUT
P63...P200

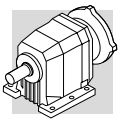


INPUT
P225

Dimensions are in mm

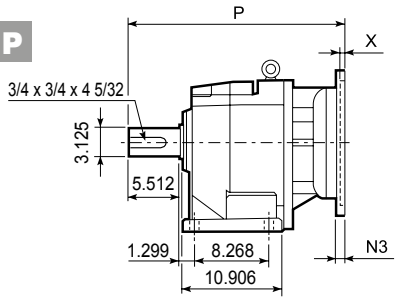
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 80 2/3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	533	135
C 80 2/3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	533	135
C 80 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	579.5	141
C 80 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	635	154
C 80 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	635	154
C 80 2	**P200**	55	59.3	16	400	350	300	—	M16x25	7	660	176
C 80 2	**P225**	60	64.4	18	450	400	350	25	18	6	705.5	178
C 80 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	576.5	138
C 80 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	576.5	138
C 80 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	596	140
C 80 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	596	140
C 80 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	**P132**	38	41.3	10	300	265	230	16	M12x16	5	642.5	146

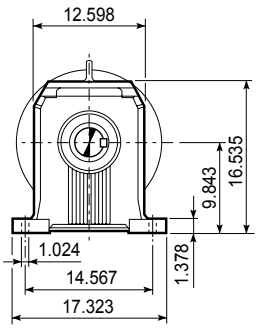
Metric output versions available also in combination with NEMA motor adaptor

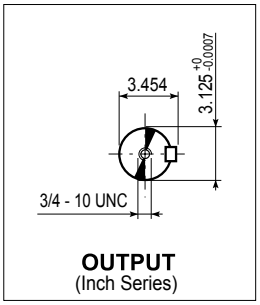


C 80...N(NEMA Input)

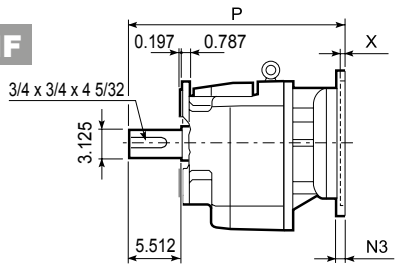
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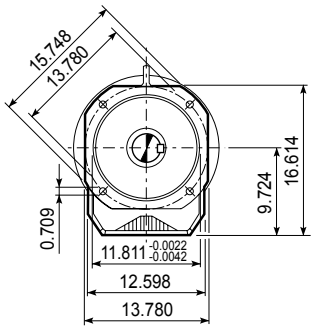


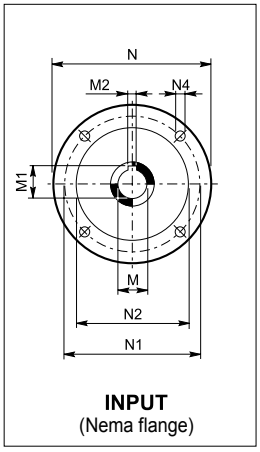




NF



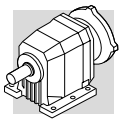




Dimensions are in Inch except when shown in *italic [mm]*

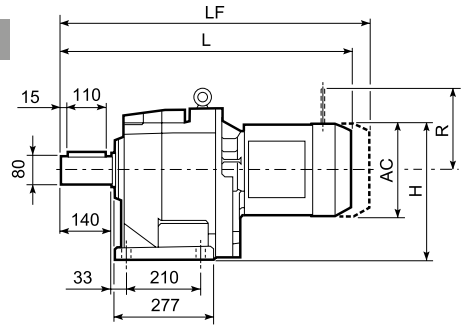
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 80 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.752	306
C 80 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	22.992	311
C 80 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	25.984	369
C 80 2	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	26.181	373
C 80 2	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	29.035	459
C 80 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.484	304
C 80 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.484	309
C 80 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	24.232	317
C 80 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	25.472	322

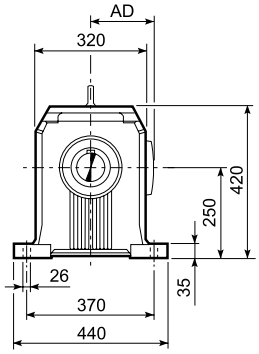
Imperial output versions available also in combination with IEC motor adaptor

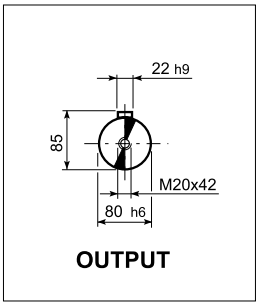


C 80...M/ME/MX

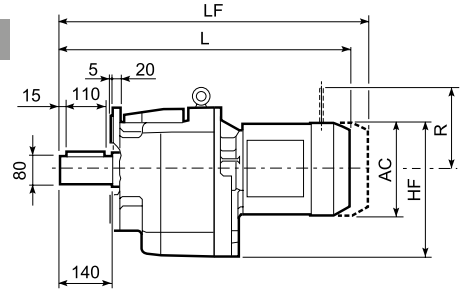
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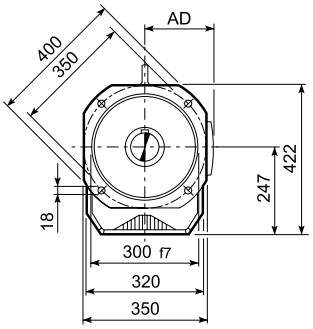






F

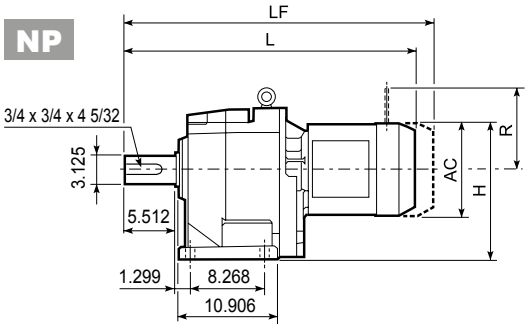


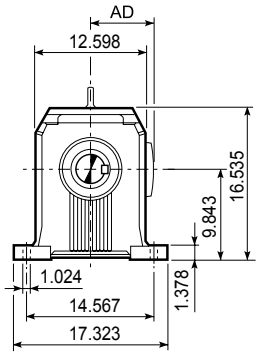


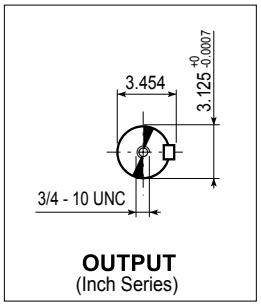
Dimensions are in mm

										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 80 2/3	**S3**	**ME3S**		195	347.5	344.5	742.5	142	141	838.5	148	160	155	160	155
C 80 2/3	**S3**	**ME3L**	**MX3S**	195	347.5	344.5	774.5	142	146	867.5	152	160	155	160	155
C 80 2/3	**S3**	**MX3L**		195	347.5	344.5	818.5	142	152	909.5	160	160	155	160	155
C 80 2/3	**S4**	**ME4**	**MX4**	258	379	376	882.5	193	180	982.5	194	204	210	200	210
C 80 2/3	**S4**	**ME4LB**	**MX4LA**	258	379	376	917.5	193	188	1006.5	204	204	210	226	210
C 80 2/3	**S5**	**ME5S**	**MX5S**	310	405	402	969	245	208	1070.5	264	266	245	247	245
C 80 2/3	**S5**	**ME5L**	**MX5L**	310	405	402	1013	245	224	1114.5	275	266	245	247	245
C 80 4	**S1**	**M1**		138	319	316	733.5	108	133	794.5	111	103	135	124	108
C 80 4	**S1**	**ME1**		138	319	316	733.5	108	133	794.5	111	103	135	124	135
C 80 4	**S2**	**ME2S**		156	328	325	761.5	119	137	818.5	117	129	143	134	143
C 80 4	**S2**	**MX2S**		156	328	325	805.5	119	142	864.5	121	129	143	134	143
C 80 4	**S3**	**ME3S**		195	347.5	344.5	805.5	142	144	872.5	125	160	155	160	155
C 80 4	**S3**	**ME3L**	**MX3S**	195	347.5	344.5	837.5	142	149	901.5	129	160	155	160	155
C 80 4	**S3**	**MX3L**		195	347.5	344.5	881.5	142	155	943.5	137	160	155	160	155
C 80 4	**S4**	**ME4**	**MX4**	258	379	376	945.5	193	183	1016.5	171	204	210	200	210
C 80 4	**S4**	**ME4LB**	**MX4LA**	258	379	376	980.5	193	191	1040.5	181	204	210	226	210

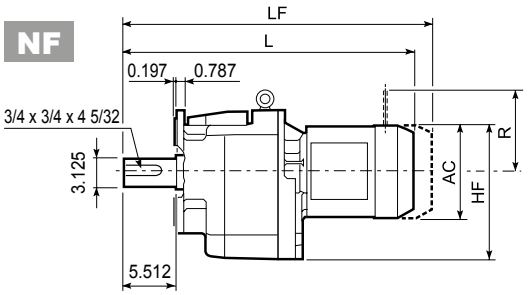
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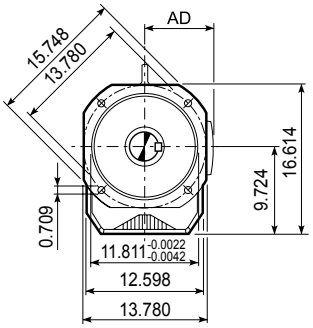






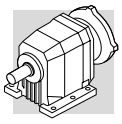
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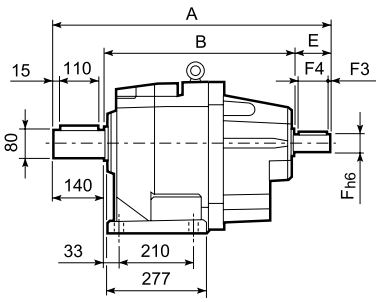
Dimensions are in Inch except when shown in *italic [mm]*

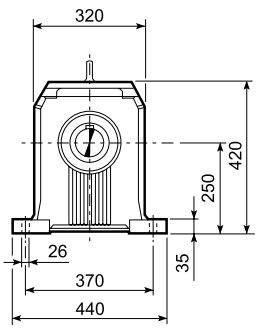
										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 80 2/3	**S3**	**ME3S**		7.677	13.681	13.563	29.232	5.591	310	—	—	—	—	—	—
C 80 2/3	**S3**	**MX3S**		7.677	13.681	13.563	30.492	5.591	316	—	—	—	—	—	—
C 80 2/3	**S3**	**ME3L**		7.677	13.681	13.563	30.492	5.591	322	—	—	—	—	—	—
C 80 2/3	**S3**	**MX3L**		7.677	13.681	13.563	32.224	5.591	335	—	—	—	—	—	—
C 80 2/3	**S4**	**ME4**	**MX4**	10.157	14.921	14.803	34.744	7.598	397	—	—	—	—	—	—
C 80 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	14.921	14.803	36.122	7.598	414	—	—	—	—	—	—
C 80 2/3	**S5**	**ME5S**	**MX5S**	12.205	15.945	15.827	38.150	9.646	459	—	—	—	—	—	—
C 80 2/3	**S5**	**ME5L**	**MX5L**	12.205	15.945	15.827	39.882	9.646	494	—	—	—	—	—	—
C 80 4	**S1**	**M1**		5.433	12.559	12.441	28.878	4.252	293	31.280	300	4.055	5.315	4.882	4.252
C 80 4	**S2**	**ME2S**		6.142	12.913	12.795	29.980	4.685	302	—	—	—	—	—	—
C 80 4	**S2**	**MX2S**		6.142	12.913	12.795	31.713	4.685	313	—	—	—	—	—	—
C 80 4	**S3**	**ME3S**		7.677	13.681	13.563	31.713	5.591	316	—	—	—	—	—	—
C 80 4	**S3**	**MX3S**		7.677	13.681	13.563	32.972	5.591	323	—	—	—	—	—	—
C 80 4	**S3**	**ME3L**		7.677	13.681	13.563	32.972	5.591	328	—	—	—	—	—	—
C 80 4	**S3**	**MX3L**		7.677	13.681	13.563	34.705	5.591	342	—	—	—	—	—	—
C 80 4	**S4**	**ME4**	**MX4**	10.157	14.921	14.803	37.224	7.598	403	—	—	—	—	—	—
C 80 4	**S4**	**ME4LB**	**MX4LA**	10.157	14.921	14.803	38.602	7.598	421	—	—	—	—	—	—

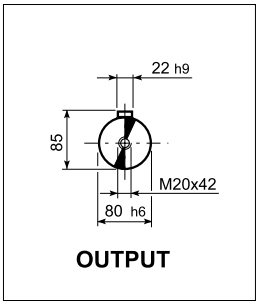


C 80...HS

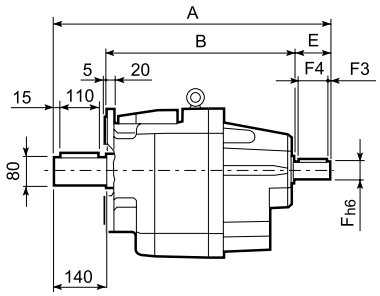
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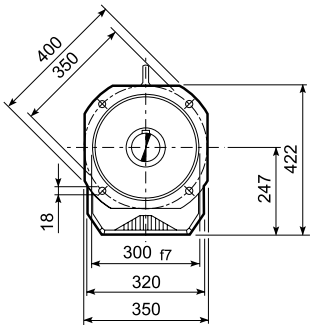


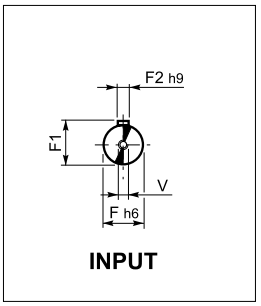




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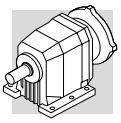




Dimensions are in mm

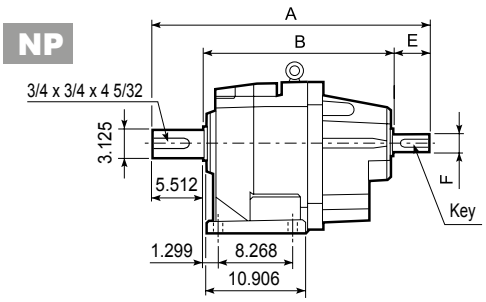
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 80 2		718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 3	**HS**	718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 4		666.5	476.5	50	24	27	8	2.5	45	M8x19	141

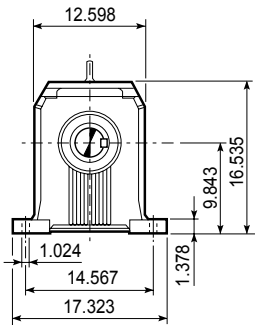
Metric output versions available also in combination with NHS input

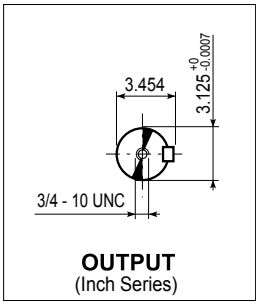


C 80...NHS

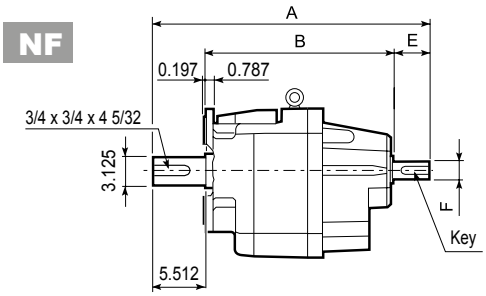
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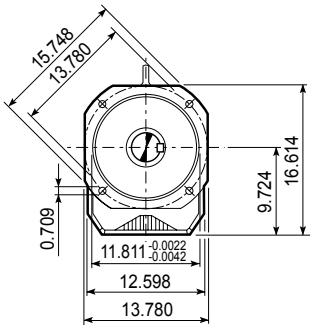


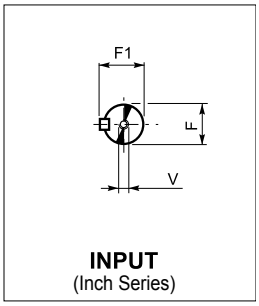




NF



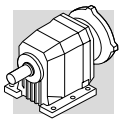




Dimensions are in Inch except when shown in *italic [mm]*

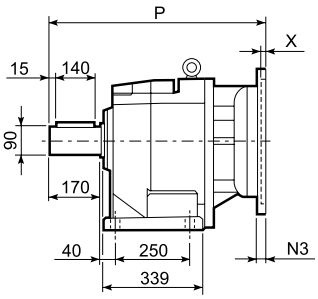
		A	B	E	F	F1	V	Key	lbs
C 80 2	**NHS**	28.207	18.445	4.250	1.625 +0 -0.0006	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	340
C 80 3		28.207	18.445	4.250	1.625 +0 -0.0006	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	340
C 80 4		26.240	18.760	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	311

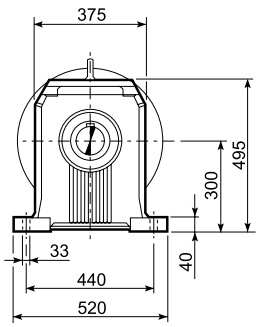
Imperial output versions available also in combination with HS input

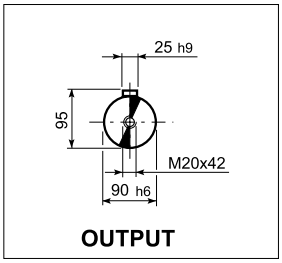


C 90...P(IEC)

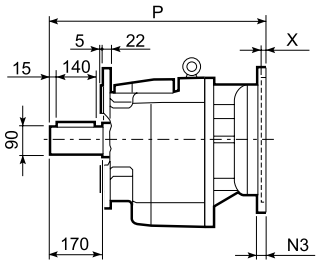
P

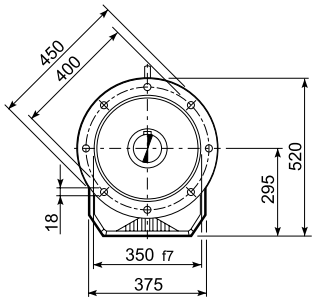


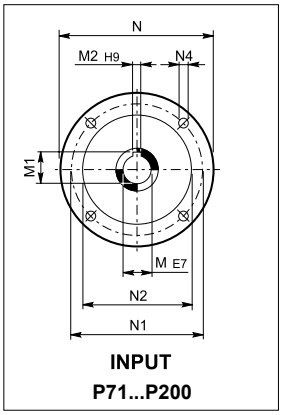


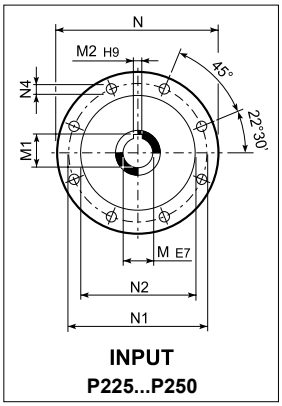


F





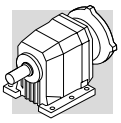




Dimensions are in mm

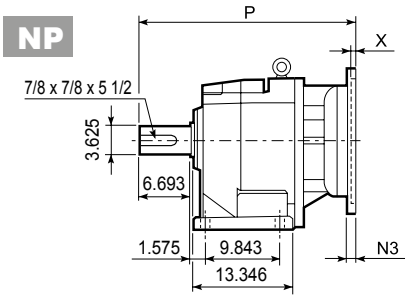
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 90 2/3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	644.5	229
C 90 2/3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	644.5	229
C 90 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	691	236
C 90 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	746.5	251
C 90 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	746.5	251
C 90 2/3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	771.5	272
C 90 2/3	**P225**	60	64.4	18	450	400	350	30	18	6	817	273
C 90 2/3	**P250**	65	69.4	18	550	500	450	30	18	6	847	295
C 90 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	707.5	236
C 90 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	707.5	236
C 90 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	727	238
C 90 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	727	238
C 90 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	**P132**	38	41.3	10	300	265	230	16	14	5	773.5	244
C 90 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	824	248
C 90 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	824	248

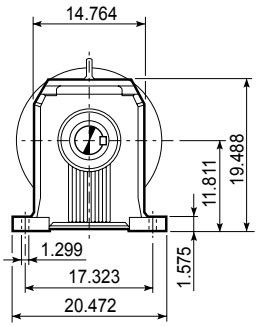
Metric output versions available also in combination with NEMA motor adaptor

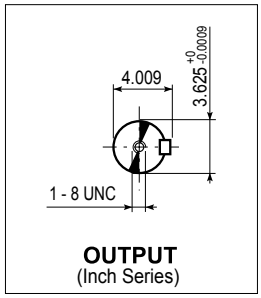


C 90...N(NEMA Input)

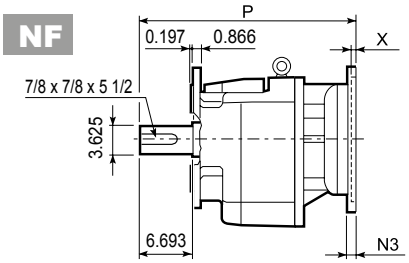
NP

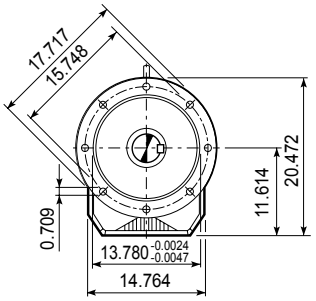


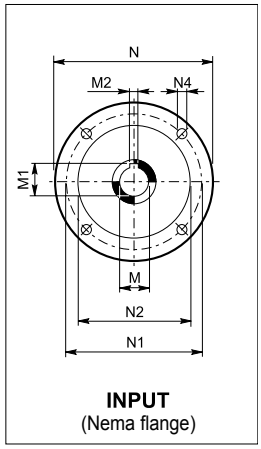




NF







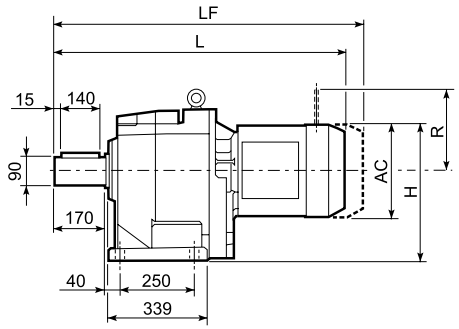
Dimensions are in Inch except when shown in *italic [mm]*

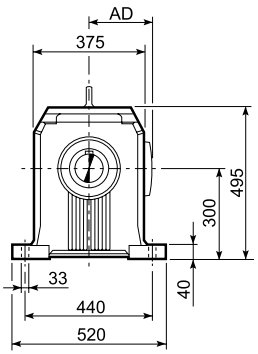
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 90 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	26.142	516
C 90 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	27.382	520
C 90 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	30.374	583
C 90 2/3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	30.571	587
C 90 2/3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	33.425	668
C 90 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	28.642	520
C 90 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	28.642	525
C 90 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	29.390	534
C 90 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	30.630	538
C 90 4	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	33.425	577
C 90 4	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	33.622	580

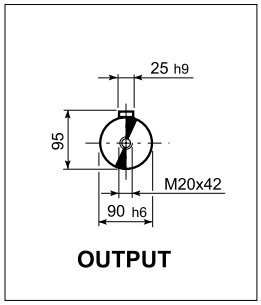
Imperial output versions available also in combination with IEC motor adaptor

C 90...M/ME/MX

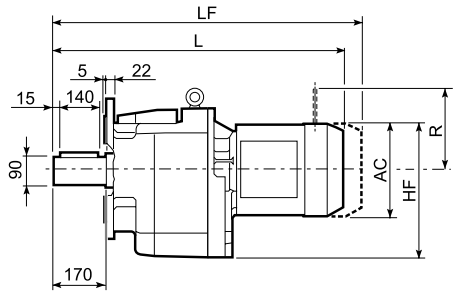
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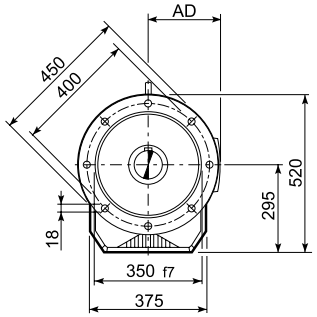






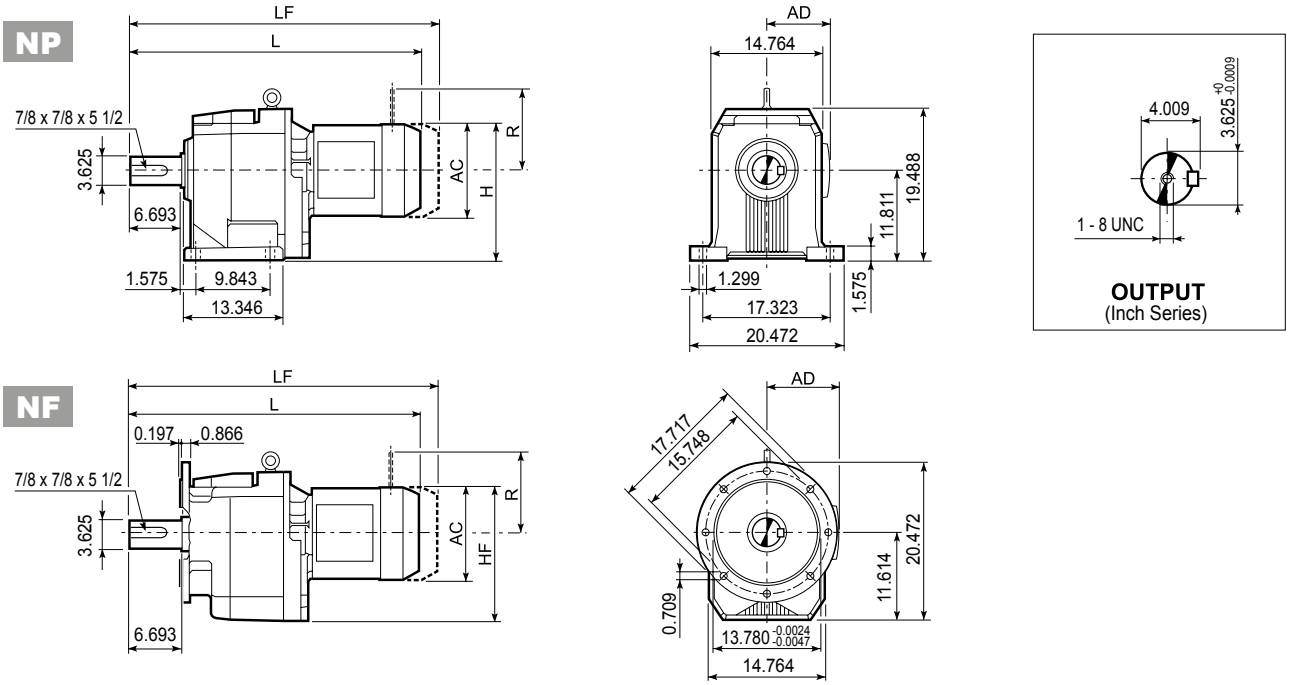
F





Dimensions are in mm

										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 90 2/3	**S3**	**ME3S**		195	397.5	392.5	852	142	229.5	852	236.5	160	155	160	155
C 90 2/3	**S3**	**ME3L**	**MX3S**	195	397.5	392.5	884	142	236	881	240.5	160	155	160	155
C 90 2/3	**S3**	**MX3L**		195	397.5	392.5	428	142	242	923	248.5	160	155	160	155
C 90 2/3	**S4**	**ME4**	**MX4**	258	429	424	992	193	270	996	282.5	204	210	200	210
C 90 2/3	**S4**	**ME4LB**	**MX4LA**	258	429	424	1027	193	278	1020	292.5	204	210	226	210
C 90 2/3	**S5**	**ME5S**	**MX5S**	310	455	450	1078.5	245	298	1084	352.5	266	245	247	245
C 90 2/3	**S5**	**ME5L**	**MX5L**	310	455	450	1122.5	245	314	1128	363.5	266	245	247	245
C 90 4	**S1**	**M1**		138	369	364	862	108	226	923	228	103	135	124	108
C 90 4	**S1**	**ME1**		138	369	364	862	108	226	923	228	103	135	124	135
C 90 4	**S2**	**M2S**		156	378	373	891	119	234	962	238	129	146	134	119
C 90 4	**S2**	**ME2S**		156	378	373	891	119	234	947	235.2	129	143	134	143
C 90 4	**S2**	**MX2S**		156	378	373	935	119	239.1	993	239	129	143	134	143
C 90 4	**S3**	**ME3S**		195	397.5	392.5	935	142	240.5	1001	243.1	160	155	160	155
C 90 4	**S3**	**ME3L**	**MX3S**	195	397.5	392.5	967	142	246	1030	247.1	160	155	160	155
C 90 4	**S3**	**MX3L**		195	397.5	392.5	1011	142	252	1072	255.1	160	155	160	155
C 90 4	**S4**	**ME4**	**MX4**	258	429	424	1075	193	280	1145	289.1	204	210	200	210
C 90 4	**S4**	**ME4LB**	**MX4LA**	258	429	424	1126.5	193	288	1169	299.1	204	210	226	210

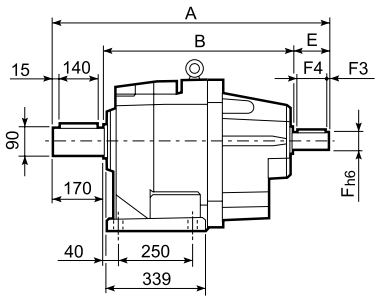


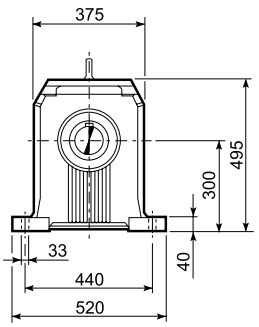
Dimensions are in Inch except when shown in *italic [mm]*

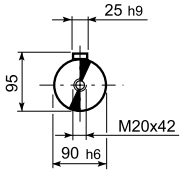
										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 90 2/3	**S3**	**ME3S**		7.677	15.650	15.453	33.543	5.591	506	—	—	—	—	—	—
C 90 2/3	**S3**	**MX3S**		7.677	15.650	15.453	34.803	5.591	513	—	—	—	—	—	—
C 90 2/3	**S3**	**ME3L**		7.677	15.650	15.453	34.803	5.591	520	—	—	—	—	—	—
C 90 2/3	**S3**	**MX3L**		7.677	15.650	15.453	16.850	5.591	534	—	—	—	—	—	—
C 90 2/3	**S4**	**ME4**	**MX4**	10.157	16.890	16.693	39.055	7.598	595	—	—	—	—	—	—
C 90 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	16.890	16.693	40.433	7.598	613	—	—	—	—	—	—
C 90 2/3	**S5**	**ME5S**	**MX5S**	12.205	17.913	17.717	42.461	9.646	657	—	—	—	—	—	—
C 90 2/3	**S5**	**ME5L**	**MX5L**	12.205	17.913	17.717	44.193	9.646	692	—	—	—	—	—	—
C 90 4	**S1**	**M1**		5.433	14.528	14.331	33.937	4.252	498	36.339	503	4.055	5.315	4.882	4.252
C 90 4	**S2**	**M2S**		6.142	14.882	14.685	35.079	4.685	516	37.874	525	5.079	5.748	5.276	4.685
C 90 4	**S2**	**ME2S**		6.142	14.882	14.685	35.079	4.685	516	—	—	—	—	—	—
C 90 4	**S2**	**MX2S**		6.142	14.882	14.685	36.811	4.685	527	—	—	—	—	—	—
C 90 4	**S3**	**ME3S**		7.677	15.650	15.453	36.811	5.591	530	—	—	—	—	—	—
C 90 4	**S3**	**MX3S**		7.677	15.650	15.453	38.071	5.591	537	—	—	—	—	—	—
C 90 4	**S3**	**ME3L**		7.677	15.650	15.453	38.071	5.591	542	—	—	—	—	—	—
C 90 4	**S3**	**MX3L**		7.677	15.650	15.453	39.803	5.591	556	—	—	—	—	—	—
C 90 4	**S4**	**ME4**	**MX4**	10.157	16.890	16.693	42.323	7.598	617	—	—	—	—	—	—
C 90 4	**S4**	**ME4LB**	**MX4LA**	10.157	16.890	16.693	44.350	7.598	635	—	—	—	—	—	—

C 90...HS

P

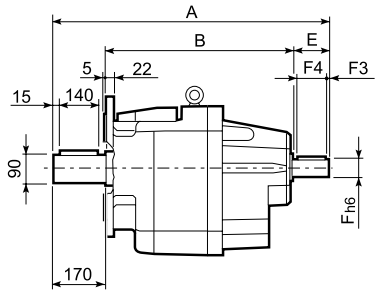


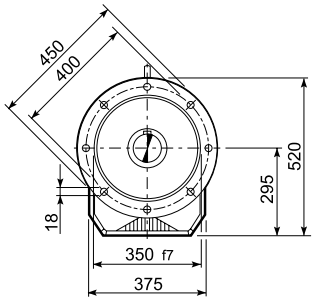


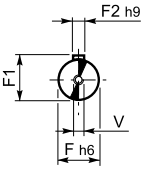


OUTPUT

F







INPUT

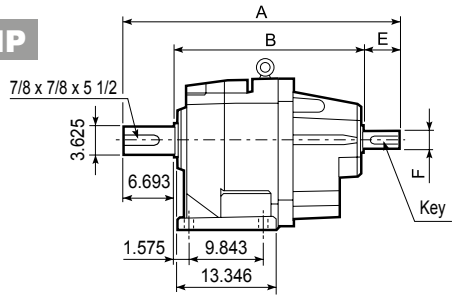
Dimensions are in mm

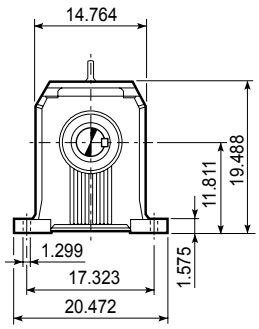
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 90 2	**HS**	930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 3		930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 4		797	577	50	24	27	8	2.5	45	M8x19	240

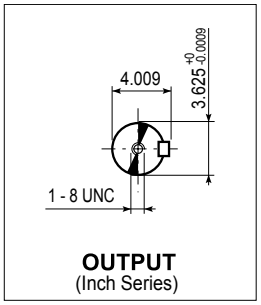
Metric output versions available also in combination with NHS input

C 90...NHS

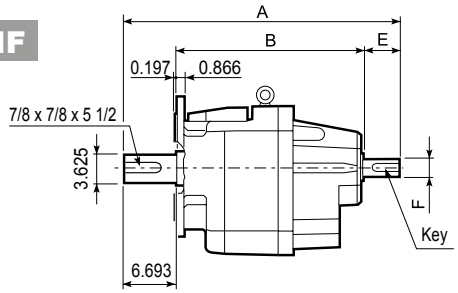
NP

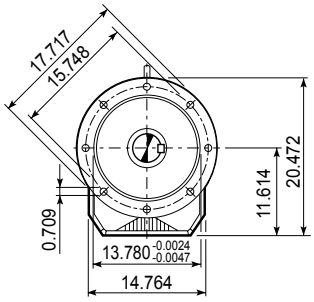


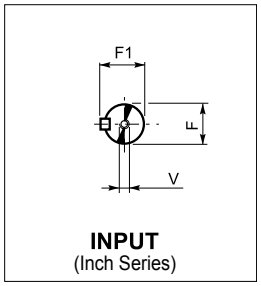




NF







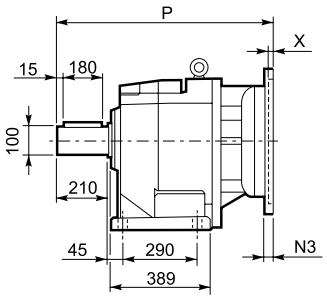
Dimensions are in Inch except when shown in *italic [mm]*

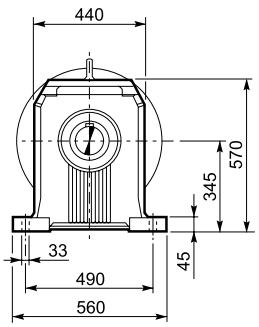
		A	B	E	F	F1	V	Key	lbs
C 90 2		36.122	24.429	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	602
C 90 3	**NHS**	36.122	24.429	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	602
C 90 4		31.378	22.717	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	529

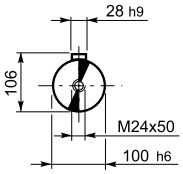
Imperial output versions available also in combination with HS input

C 100...P(IEC)

P

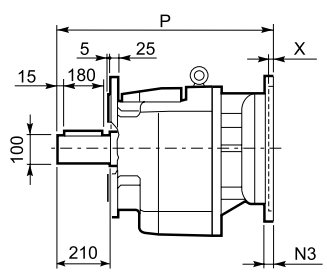


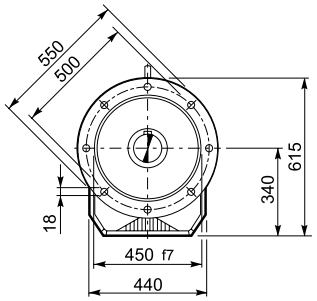


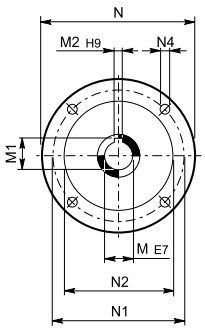


OUTPUT

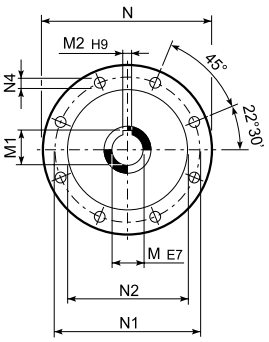
F







INPUT
P80...P200

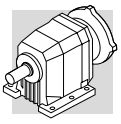


INPUT
P225...P280

Dimensions are in mm

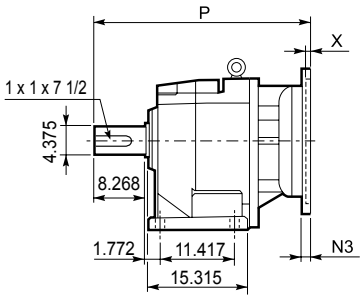
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 100 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	786	367
C 100 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	841.5	382
C 100 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	841.5	382
C 100 2/3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	866.5	403
C 100 2/3	**P225**	60	64.4	18	450	400	350	30	18	7	912	403
C 100 2/3	**P250**	65	69.4	18	550	500	450	30	18	7	942	426
C 100 2/3	**P280**	75	79.9	20	550	500	450	30	18	6	942	426
C 100 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	803	369
C 100 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	803	369
C 100 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	822.5	371
C 100 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	822.5	371
C 100 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	**P132**	38	41.3	10	300	265	230	16	14	5	869	377
C 100 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	919.5	381
C 100 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	919.5	381

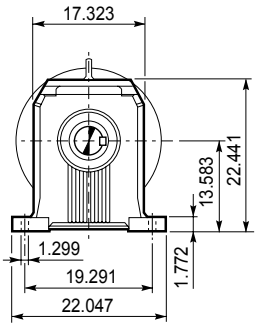
Metric output versions available also in combination with NEMA motor adaptor

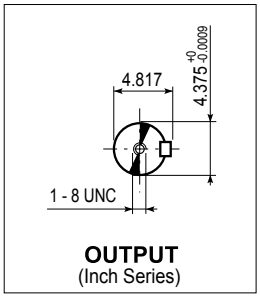


C 100...N(NEMA Input)

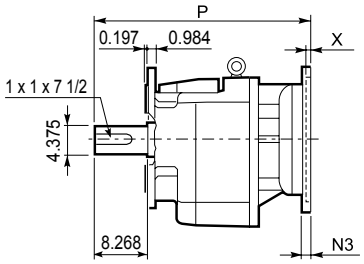
NP

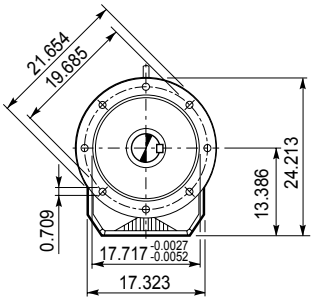


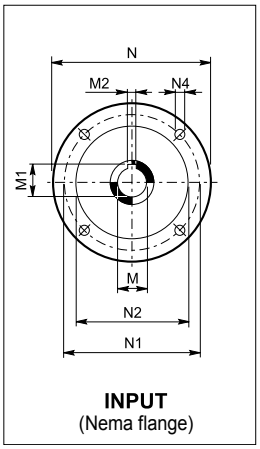




NF



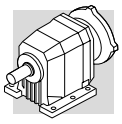




Dimensions are in Inch except when shown in *italic [mm]*

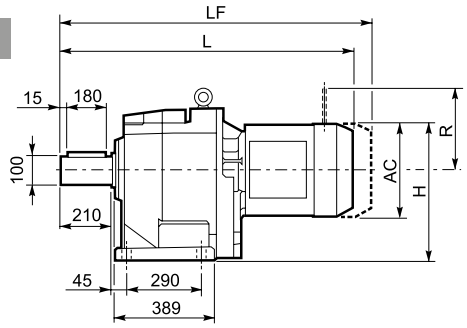
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 100 2/3	**N210TC**	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	31.122	809
C 100 2/3	**N250TC**	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0.0014}_{+0}$	13.780	7.250	8.500	—	0.551	0.217	34.114	872
C 100 2/3	**N280TC**	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0.0017}_{+0}$	13.740	10.500	9.000	—	0.551	0.217	34.311	875
C 100 2/3	**N320TC**	2.125 $^{+0.0035}_{+0.0024}$	2.350	0.500 $^{+0.0017}_{+0}$	17.677	11.000	12.500	—	0.669	0.217	37.165	955
C 100 4	**N56C**	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	32.402	813
C 100 4	**N140TC**	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	32.402	818
C 100 4	**N180TC**	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	33.150	827
C 100 4	**N210TC**	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	34.390	831
C 100 4	**N250TC**	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0.0014}_{+0}$	13.780	7.250	8.500	—	0.551	0.217	37.185	870
C 100 4	**N280TC**	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0.0017}_{+0}$	13.740	10.500	9.000	—	0.551	0.217	37.382	873

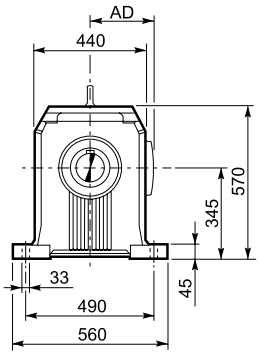
Imperial output versions available also in combination with IEC motor adaptor

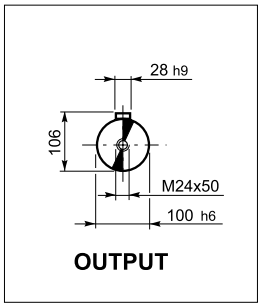


C 100...M/ME/MX

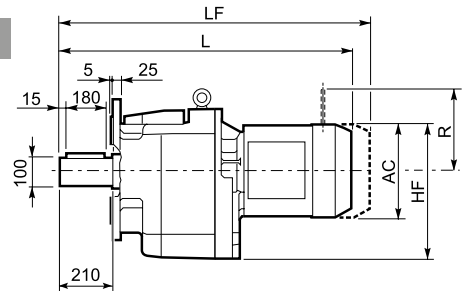
P

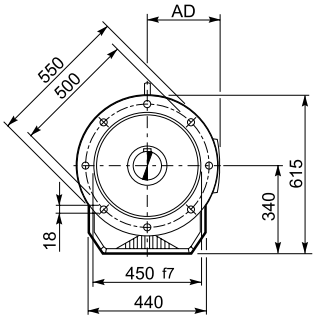






F



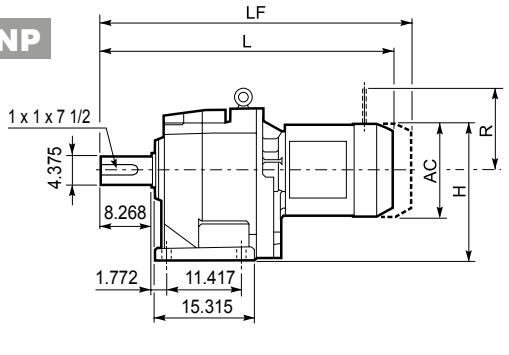


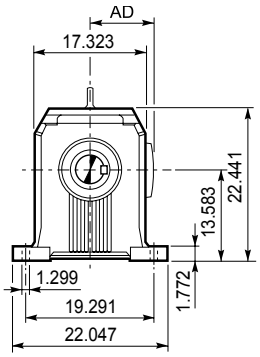
Dimensions are in mm

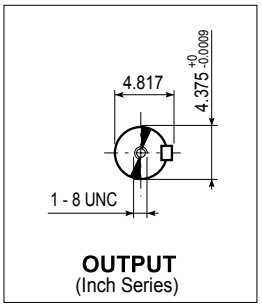
										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 100 2/3	**S4**	**ME4**	**MX4**	258	474	469	1087	193	392	1196	405	204	210	200	210
C 100 2/3	**S4**	**ME4LB**	**MX4LA**	258	474	469	1122	193	400	1220	415	204	210	226	210
C 100 2/3	**S5**	**ME5S**	**MX5S**	310	500	495	1173.5	245	420	1284	475	266	245	247	245
C 100 2/3	**S5**	**ME5L**	**MX5L**	310	500	495	1217.5	245	436	1328	486	266	245	247	245
C 100 4	**S1**	**M1**		138	414	409	956.5	108	346	1027.5	348	103	135	124	108
C 100 4	**S1**	**ME1**		138	414	409	956.5	108	346	1027.5	348	103	135	124	135
C 100 4	**S2**	**M2S**		156	423	418	985.5	119	354	1056.5	357	129	146	134	119
C 100 4	**S2**	**ME2S**		156	423	418	985.5	119	354	1041.5	355	129	143	134	143
C 100 4	**S2**	**MX2S**		156	423	418	1029.5	119	359	1087.5	359	129	143	134	143
C 100 4	**S3**	**ME3S**		195	442.5	437.5	1029.5	142	360	1095.5	363	160	150	160	155
C 100 4	**S3**	**ME3L**	**MX3S**	195	442.5	437.5	1061.5	142	366	1124.5	367	160	150	160	155
C 100 4	**S3**	**MX3L**		195	442.5	437.5	1105.5	142	372	1166.5	375	160	150	160	155
C 100 4	**S4**	**ME4**	**MX4**	258	474	469	1169.5	193	400	1239.5	409	204	210	200	210
C 100 4	**S4**	**ME4LB**	**MX4LA**	258	474	469	1204.5	245	408	1264.5	419	204	210	226	210

C 100...M/ME/MX

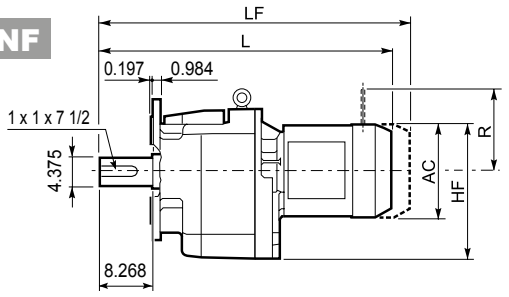
NP

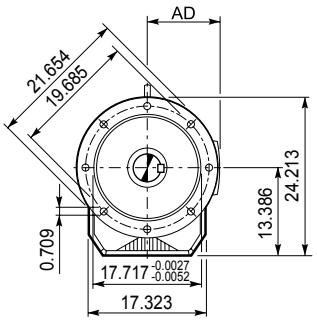






NF



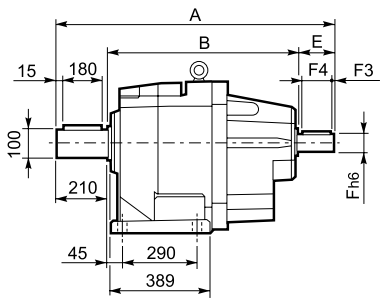


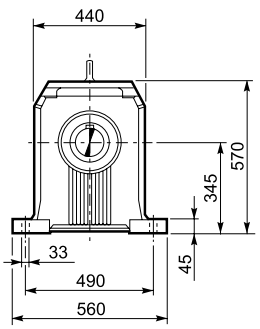
Dimensions are in Inch except when shown in *italic [mm]*

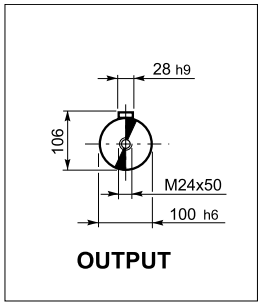
										M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 100 2/3	**S4**	**ME4**	**MX4**	10.157	18.661	18.465	42.795	7.598	864	—	—	—	—	—	—
C 100 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	18.661	18.465	44.173	7.598	882	—	—	—	—	—	—
C 100 2/3	**S5**	**ME5S**	**MX5S**	12.205	19.685	19.488	46.201	9.646	926	—	—	—	—	—	—
C 100 2/3	**S5**	**ME5L**	**MX5L**	12.205	19.685	19.488	47.933	9.646	961	—	—	—	—	—	—
C 100 4	**S1**	**M1**		5.433	16.299	16.102	37.657	4.252	763	40.453	767	4.055	5.315	4.882	4.252
C 100 4	**S2**	**M2S**		6.142	16.654	16.457	38.799	4.685	780	41.594	787	5.079	5.748	5.276	4.685
C 100 4	**S2**	**ME2S**		6.142	16.654	16.457	38.799	4.685	780	—	—	—	—	—	—
C 100 4	**S2**	**MX2S**		6.142	16.654	16.457	40.531	4.685	792	—	—	—	—	—	—
C 100 4	**S3**	**ME3S**		7.677	17.421	17.224	40.531	5.591	793	—	—	—	—	—	—
C 100 4	**S3**	**MX3S**		7.677	17.421	17.224	41.791	5.591	799	—	—	—	—	—	—
C 100 4	**S3**	**ME3L**		7.677	17.421	17.224	41.791	5.591	807	—	—	—	—	—	—
C 100 4	**S3**	**MX3L**		7.677	17.421	17.224	43.524	5.591	820	—	—	—	—	—	—
C 100 4	**S4**	**ME4**	**MX4**	10.157	18.661	18.465	46.043	7.598	882	—	—	—	—	—	—
C 100 4	**S4**	**ME4LB**	**MX4LA**	10.157	18.661	18.465	47.421	9.646	899	—	—	—	—	—	—

C 100...HS

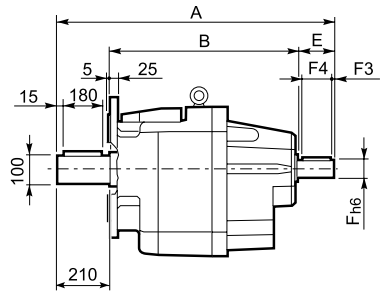
P

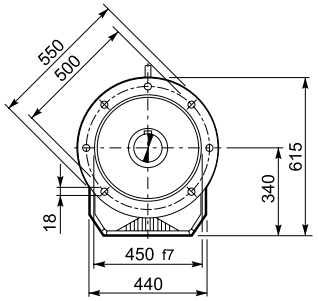


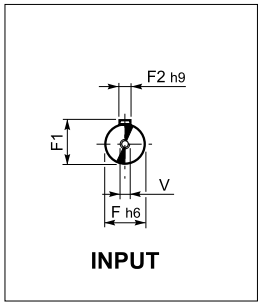




F





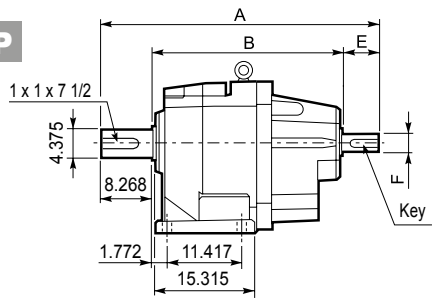


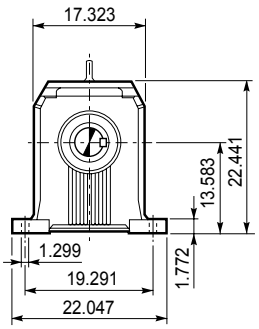
Dimensions are in mm

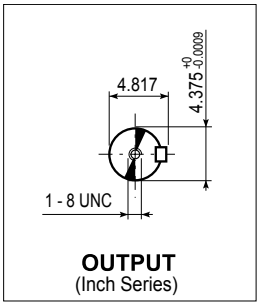
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 100 2		1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 3	**HS**	1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 4		892	632	50	24	27	8	2.5	45	M8x19	372

Metric output versions available also in combination with NHS input

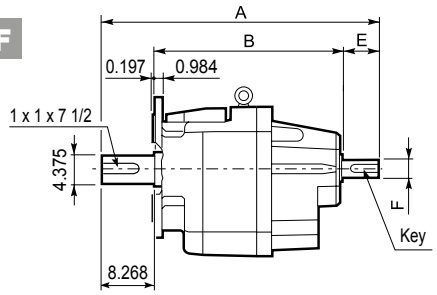
NP

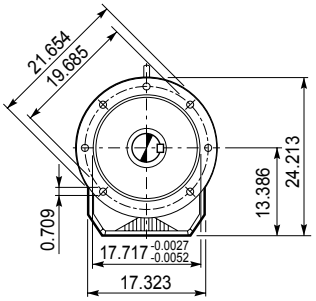


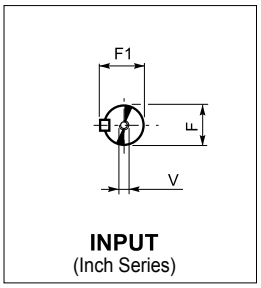




NF







Dimensions are in Inch except when shown in *italic [mm]*

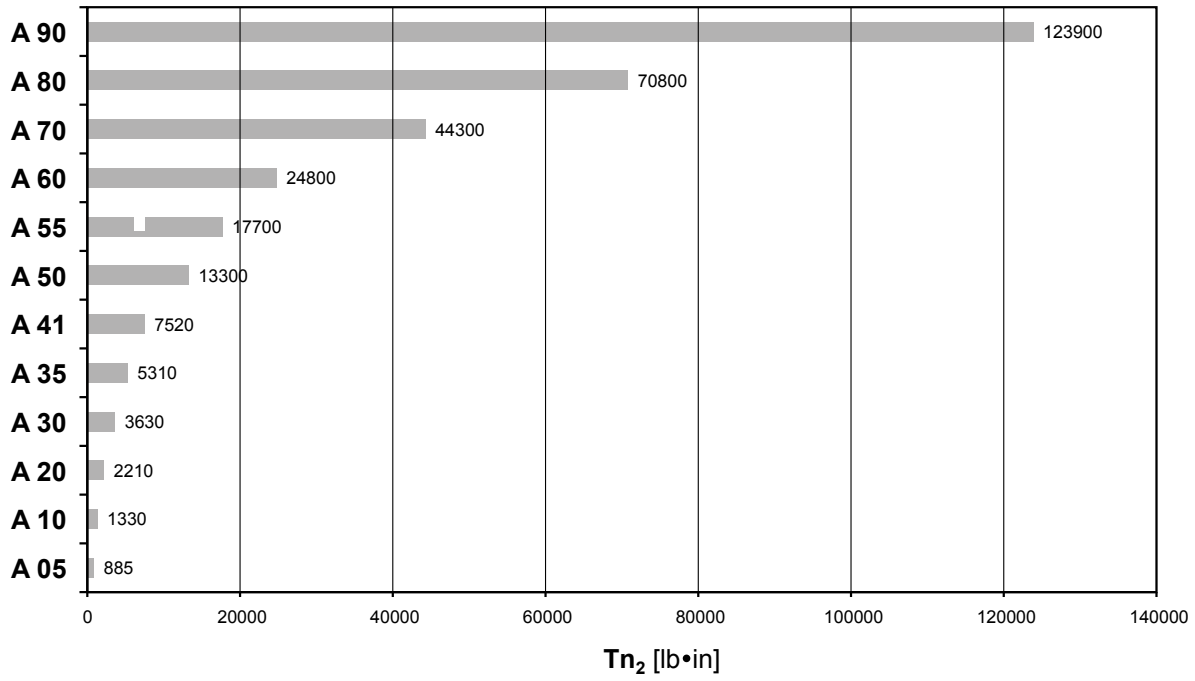
		A	B	E	F	F1	V	Key	lbs
C 100 2	**NHS**	39.862	26.594	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	902
C 100 3		39.862	26.594	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	902
C 100 4		35.118	24.882	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	820

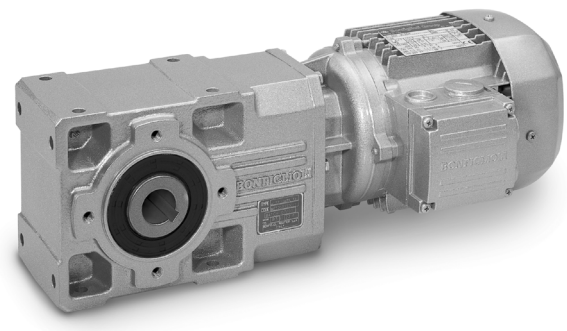
Imperial output versions available also in combination with HS input

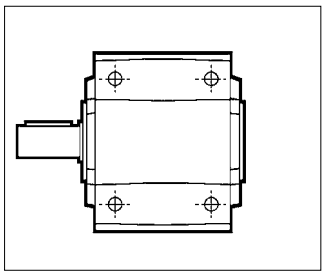
31 DESIGN FEATURES

The main design characteristics are:
- modularity
- space effective
- universal mounting
- high efficiency
- quite operation
- gears in hardened and case-hardened steel
- bare aluminium housing for sizes 05, 10, 20, 30, unpainted high strength painted cast-iron housings for larger frame sizes
- input and output shafts from high grade steel.

(C 26)



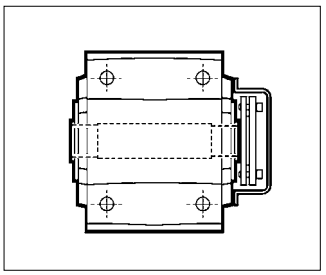




UR / NUR

Single extension output shaft

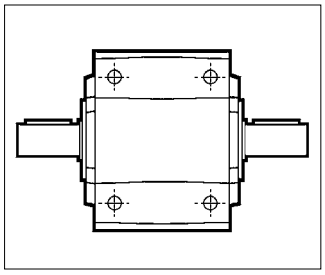
A 05 ... A 90



US

Hollow output shaft and shrink disc

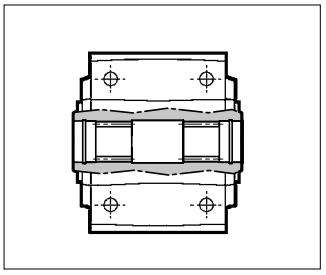
A 05 ... A 90



UD / NUD

Double extended output shaft

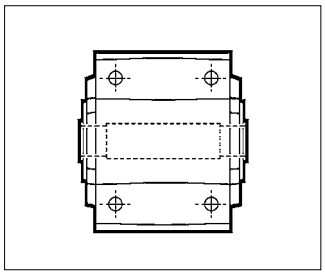
A 05 ... A 90



UV

Splined hollow shaft DIN 5480

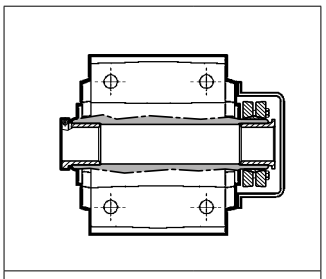
A 20 ... A 60



UH / NUH

Hollow output shaft and keyway

A 05 ... A 90



QF / NQF

(Quick-fit)

Hollow shaft with adapter bushings and shrink disc

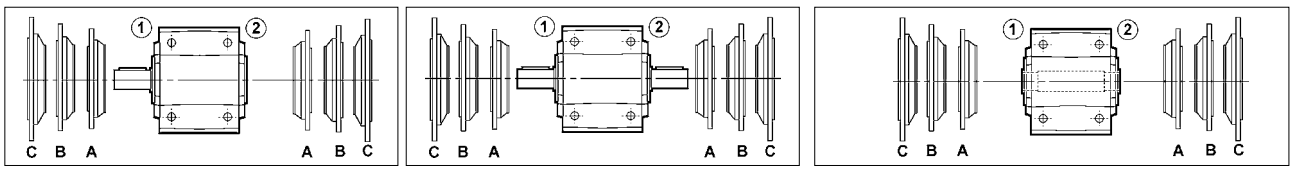
A 10 ... A 60

$T_{n2\ max}$ [lb•in]	
A 35 QF35	4872
A 35 NQF 1-3/8	
A 55 QF55	16830

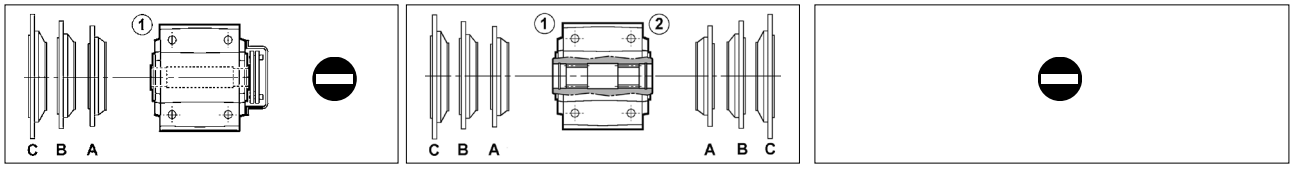
Basic versions with bolted flange

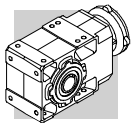
The sketches show the applicable flanges to the basic versions and their positions, designated with either ① or ②.

UR/NUR F1... **UR/NUR F2...** **UD/NUD F1...** **UD/NUD F2...** **UH/NUH... F1...** **UH/NUH... F2...**



US F1... **US F2...** **UV F1...** **UV F2...** **QF/NQF...**





33 DESIGNATION

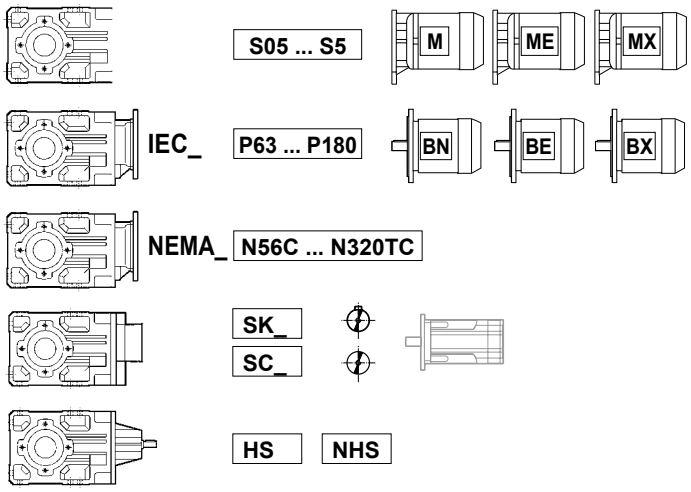
GEAR UNIT

A 35 2 NUH F1A 49.1 S1 VA .....

OPTIONS

MOUNTING POSITION
B3 (Standard), **B6**, **B7**, **B8**, **VA**, **VB**

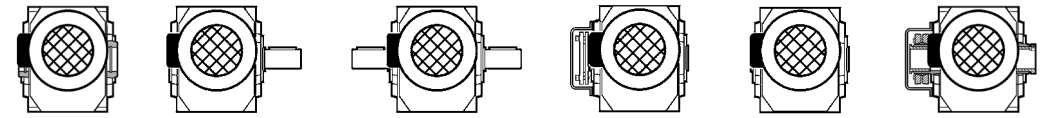
INPUT CONFIGURATION



GEAR RATIO

OUTPUT FLANGE SIZE AND POSITION
(specify only if requested)
F = Flanged version
1, **2** = Flange position
A, **B**, **C** = Flange size

VERSION



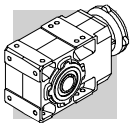
UH_ / NUH	UR / NUR (A 05...A 90)	UD / NUD (A 05...A 90)	US (A 05...A 90)	UV (A 20...A 60)	QF / NQF (A 10...A 60)

A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
UH25	**UH25**	**UH30**	**UH35**	**UH40**	**UH45**	**UH50**	**UH60**	**UH60**	**UH70**	**UH80**	**UH90**
—	UH30	UH35	UH40	UH35	UH40	UH55	UH50	UH70	UH80	UH90	UH100

REDUCTIONS
2 (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

GEAR FRAME SIZE
05, **10**, **20**, **30**, **35**, **41**, **50**, **55**, **60**, **70**, **80**, **90**

TYPE: **A** = Helical bevel gear units



MOTOR | BRAKE

M 1LA 4 230/400-60 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPTIONS

BRAKE SUPPLY

RECTIFIER TYPE
AC/DC
NB, **SB**, **NBR**, **SBR**

BRAKE HAND RELEASE
R, **RM**

BRAKE TORQUE (specify Nm!)
[**1 ft•lb = 1.356 Nm**]

BRAKE TYPE
FD (d.c. brake)
FA (a.c. brake)

TERMINAL BOX POSITION
W (default), **N**, **E**, **S**

MOTOR MOUNTING
— (compact motor)
B5 (IEC - motor)

INSULATION CLASS
CL F standard
CL H option

DEGREE OF PROTECTION
IP55 standard (**IP56** option)
IP54, **IP55** brake motor

VOLTAGE - FREQUENCY

POLE NUMBER
2, **4**, **6**

MOTOR SIZE
0B ... 5LA (compact motor)
63A ... 280M (IEC motor)

MOTOR TYPE
MX= compact 3-phase, class IE3
BX = IEC 3-phase, class IE3
ME = compact 3-phase, class IE2
BE = IEC 3-phase, class IE2
M = compact 3-phase
BN = IEC 3-phase

NEMA motors to be specified thru their ordering numbers

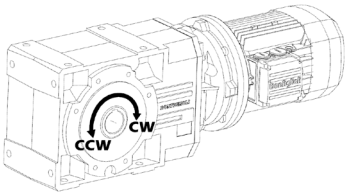
33.1 Gearbox options

AL, AR

The backstop option is available for M, ME and MX motors and it is not compatible with the corresponding gearbox option.

When ordering the gear unit, the direction of free rotation must be specified through either the AR or the AL option. The following table (C34) shows the gearboxes in which the anti-run back device can be installed and supports the selection of AR or AL option, based on the desired direction of free rotation at the gearbox output shaft (clockwise or counter-clockwise).

(C 27)



Option to select based on the required direction of free rotation at gearbox output shaft
The table refers to the gearbox in mounting position B3, on left side seen from motor side (see picture).
(CW: clockwise, CCW: counterclockwise)

	CW			CCW		
	2x	3x	4x	2x	3x	4x
05	AL			AR		
10	AL			AR		
20	AL	AR		AR	AL	
30	AL	AR		AR	AL	
35	AL	AR		AR	AL	
41	AL	AR		AR	AL	
50	AL	AR	AL	AR	AL	AR
55	AR	AR	AL	AL	AL	AR
60	AL	AL	AR	AR	AR	AL
70		AL	AR		AR	AL
80		AL	AR		AR	AL
90		AL	AR		AR	AL

For further information on this option, consult the electric motors section.

SO

Gear units A05, A10, A20, A30, A35 and A41, usually factory filled with oil, are, in this case, supplied unlubricated.

DV

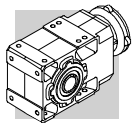
Dual oil seals on input shaft. (Only available for integral gearmotors).

VV

Fluoro elastomer oil seal on input shaft.

PV

All oil seals in Fluoro elastomer material.



TKL

Taconite seals are available, for output axis of gearboxes sizes (from) A70 to A90, to use in environments characterized by the presence of abrasive dust or powders. Taconite seals incorporate a combination of sealing rings, labyrinths and a grease chamber.
Greasing must be ensured as part of the scheduled maintenance programme.
This option includes fluoro elastomer oil seals on all axes.
For mounting position B6 please consult Bonfiglioli's Technical service.

HDB

Certain gearboxes are available with increased overhung load ratings for use in applications characterised by high overhung loads beyond the capacity of the standard gearboxes. Specify the HDB option when ordering to obtain this increased overhung load capacity. The HDB option is available for gearbox sizes A10 to A50 with a single sided or through solid output shaft.
The following table specifies the maximum loads for HDB reinforced gearbox versions.
Figures refer to forces along the centreline of the output shaft.

(C 28)

HDB	R_{N2}					
	A 10	A 20	A 30	A 35	A 41	A 50
n1 = 1800	**1236** [lbs]	**1394** [lbs]	**2158** [lbs]	**2698** [lbs]	**3372** [lbs]	**4496** [lbs]
n1 = 1200	**1236** [lbs]	**1394** [lbs]	**2158** [lbs]	**2698** [lbs]	**3372** [lbs]	**4496** [lbs]

Reinforced bearings also allow these versions to withstand increased thrust loads, and in particular.

$$A_{N2} = 0.35 \times R_{n2} \quad (24)$$

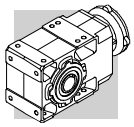
In applications free from overhung load, thrust load capacity increases to:

$$A_{N2} = 0.70 \times R_{n2} \quad (25)$$

If load is applied simultaneously to both ends of a through output shaft, contact the Bonfiglioli Technical Service to verify the application.

RB

Gear units A10, A20, A30, A35, A41, A50, A55 and A60, usually supplied with standard values of angular backlash, are, in this case, supplied with reduced angular backlash values (excludes gear units options AL and AR described in this paragraph).
The following table specifies the corresponding figures of angular backlash.



(C 29)

		standard		RB	
A05	i =	5.5_12.3 - ⛀(10.6)	10.6_91.6 - ⛀(12.3)	—	
	φ [']	**28**	**18**		
A10	i =	5.5_12.3 - ⛀(10.6)	10.6_91.6 - ⛀(12.3)	5.5_12.3 - ⛀(10.6)	10.6_91.6 - ⛀(12.3)
	φ [']	**27**	**17**	**12**	**8**
A20	i =	5.4_12 - ⛀(10.3)	10.3_380.9 - ⛀(12)	5.4_12 - ⛀(10.3)	10.3_380.9 - ⛀(12)
	φ [']	**23**	**15**	**11**	**7**
A30	i =	5.4_11.8 - ⛀(10.5)	10.5_400.8 - ⛀(11.8)	5.4_11.8 - ⛀(10.5)	10.5_400.8 - ⛀(11.8)
	φ [']	**22**	**15**	**10**	**7**
A35	i =	5.4_11.8	13.1_393.2	5.4_11.8	13.1_393.2
	φ [']	**20**	**11**	**9**	**6**
A41	i =	5.2_11.7 - ⛀(10.1)	10.1_376.8 - ⛀(11.7)	5.2-11.7 - ⛀(10.1)	10.1_376.8 - ⛀(11.7)
	φ [']	**19**	**13**	**9**	**6**
A50	i =	7.7_778.2		7.7_778.2	
	φ [']	**16**		**7**	
A55	i =	4.9_19.2	23.8_793	4.9_19.2	23.8_793
	φ [']	**17**	**11**	**8**	**6**
A60	i =	7.9_20.6	25.7_755.4	7.9_20.6	25.7_755.4
	φ [']	**12**	**9**	**5**	**4**
A70	i =	9.4_21.3	23.5_1715	—	
	φ [']	**14**	**12**		
A80	i =	9.8_20.9	22.6_1558	—	
	φ [']	**13**	**11**		
A90	i =	9.7_21	22.3_1632	—	
	φ [']	**12**	**10**		

For the delivery timeframe contact the Bonfiglioli's sales network

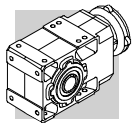
SURFACE PROTECTION

When no specific protection class is requested, the painted (ferrous) surfaces of gearboxes are protected to at least corrosivity class C2 (UNI EN ISO 12944-2). For improved resistance to atmospheric corrosion, gearboxes can be delivered with **C3** and **C4** surface protection, obtained by painting the complete gearbox.

(C 30)

SURFACE PROTECTION	Typical environments	Maximum surface temperature	Corrosivity class according to UNI EN ISO 12944-2
C3	Urban and industrial environments with up to 100% relative humidity (medium air pollution)	120°C [248 F°]	C3
C4	Industrial areas, coastal areas, chemical plant, with up to 100% relative humidity (high air pollution)	120°C [248 F°]	C4

Gearboxes with optional protection to class **C3** or **C4** are available in a choice of colours.
If no specific colour is requested (see the "PAINTING" option) gearboxes are finished in RAL 7042.
Gearboxes can also be supplied with surface protection for corrosivity class **C5** according to UNI EN ISO 12944-2. Contact our Technical Service for further details.



PAINTING

Gearboxes with optional protection to class C3 or C4 are available in the colours listed in the following table.

(C 31)

PAINTING	Colour	RAL number
RAL7042*	Traffik Grey A	7042
RAL5010	Gentian Blue	5010
RAL9005	Jet Black	9005
RAL9006	White Aluminium	9006
RAL9010	Pure White	9010
RAL7035	Light Grey	7035
RAL7001	Silver Grey	7001
RAL5015	Sky Blue	5015
RAL7037	Dusty Grey	7037
RAL5024	Pastel Blue	5024

* Gearboxes are supplied in this standard colour if no other colour is specified.

NOTE – “PAINTING” options can only be specified in conjunction with “SURFACE PROTECTION” options.

CERTIFICATES

AC - Certificate of compliance
The document certifies the compliance of the product with the purchase order and the construction in conformity with the applicable procedures of the Bonfiglioli Quality System.

CC - Inspection certificate
The document entails checking on order compliance, the visual inspection of external conditions and of mating dimensions. Checking on main functional parameters in unloaded conditions is also performed along with oil seal proofing, both in static and in running conditions. Units inspected are sampled within the shipping batch and marked individually.

33.2 Accessories

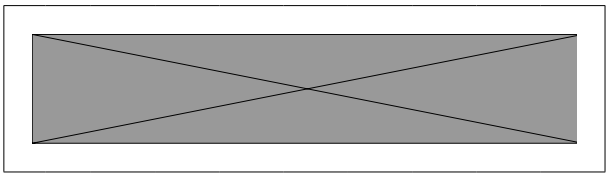
See chapter 44 of this catalogue.

33.3 Motor options

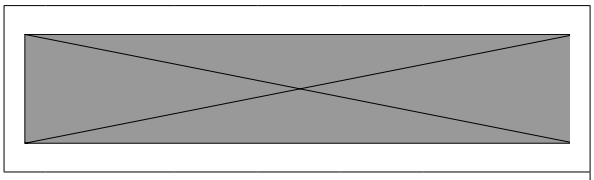
AL, AR

The backstop option is also available for M or ME motors and is not compatible with the presence of the same option of the gearbox. The following table shows the direction of free rotation of the gearbox, on the basis of which the correct option must be selected.

(C 32)



2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60
3x	A 60	A 70	A 80	A 90				
4x	A 50	A 55						



2x	A 55					
3x	A 20	A 30	A 35	A 41	A 50	A 55
4x	A 60	A 70	A 80	A 90		

For further information on options, consult the electric motors section.

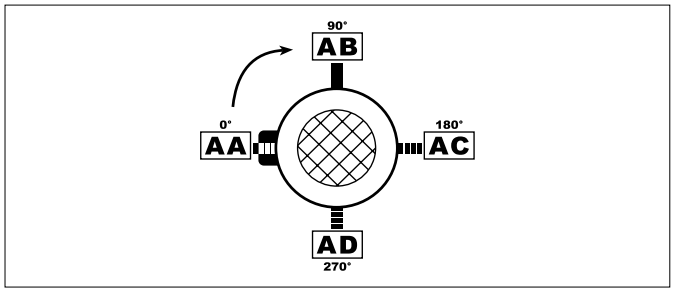
34 MOUNTING POSITION AND TERMINAL BOX ANGULAR LOCATION

Location of motor terminal box can be specified by viewing the motor from the fan side; standard location is shown in black (W).

Angular location of the brake release lever.

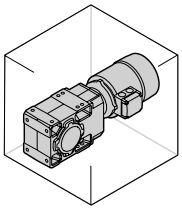
Unless otherwise specified, brake motors have the manual device side located, 90° apart from terminal box. Different angles can be specified through the relevant options available.

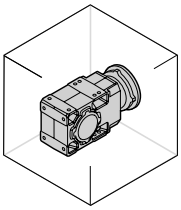
(C 33)

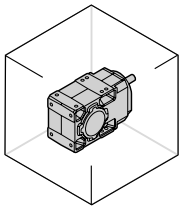


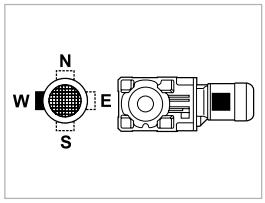
A ...

B3

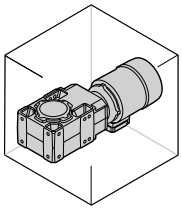

_S

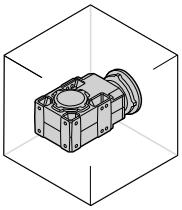

_P(IEC) _N(NEMA) _SK / _SC

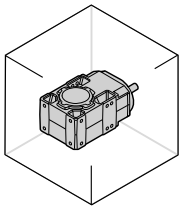

_HS _NHS

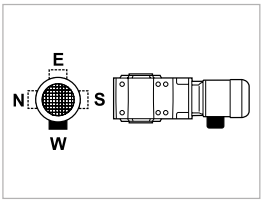


B6

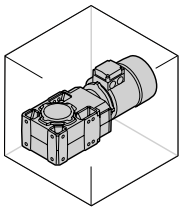

_S

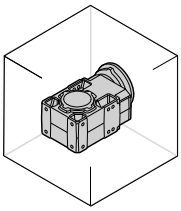

_P(IEC) _N(NEMA) _SK / _SC

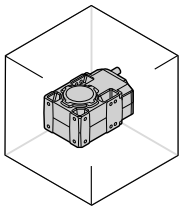

_HS _NHS

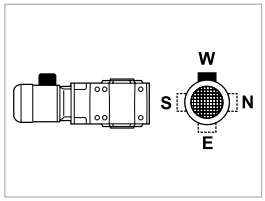


B7

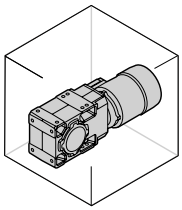

_S

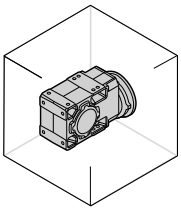

_P(IEC) _N(NEMA) _SK / _SC

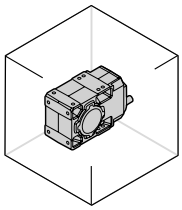

_HS _NHS

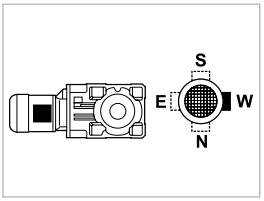


B8

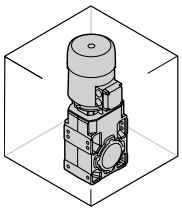

_S

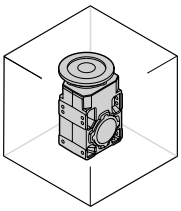

_P(IEC) _N(NEMA) _SK / _SC

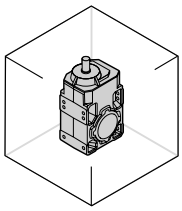

_HS _NHS

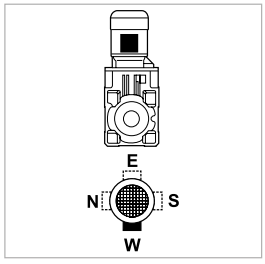


VA

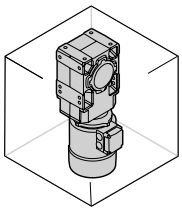

_S

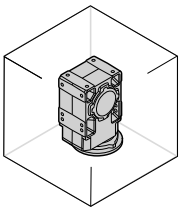

_P(IEC) _N(NEMA) _SK / _SC

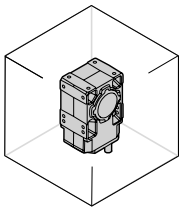

_HS _NHS

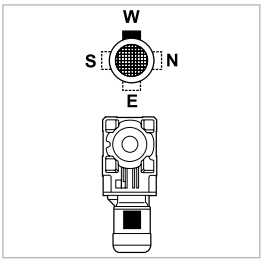


VB


_S


_P(IEC) _N(NEMA) _SK / _SC


_HS _NHS



W = Default

35 OVERHUNG LOADS

External transmissions keyed onto input and/or output shaft generate loads that act radially onto same shaft.
Resulting shaft loading must be compatible with both the bearing and the shaft capacity. Namely shaft loading (R_{c1} for input shaft, R_{c2} for output shaft), must be equal or lower than admissible overhung load capacity for shaft under study (R_{n1} for input shaft, R_{n2} for output shaft). OHL capability listed in the rating chart section.
In the formulas given below, index (1) applies to parameters relating to input shaft, whereas index (2) refers to output shaft.
The load generated by an external transmission can be calculated with close approximation by the following equations:

$$R_{c1}\,[\text{lbs}] = \frac{2 \cdot T_1\,[\text{lb·in}] \cdot K_r}{d\,[\text{in}]} \quad ; \quad R_{c2}\,[\text{lbs}] = \frac{2 \cdot T_2\,[\text{lb·in}] \cdot K_r}{d\,[\text{in}]} \qquad (26)$$

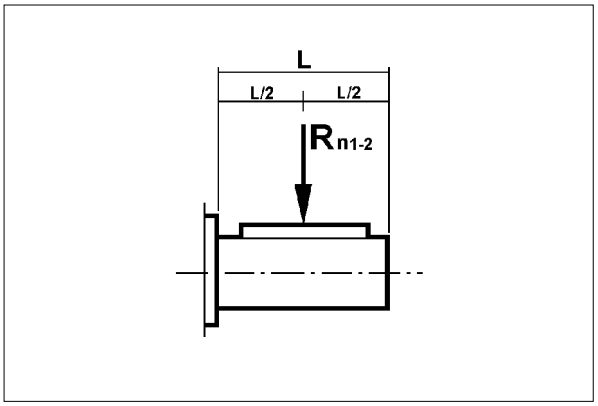
(C 34)

T_1 [lb•in]	Torque applied to input shaft
T_2 [lb•in]	Torque drawn at output shaft
d [in]	Pitch diameter of element keyed onto shaft
K_r = 1	Chain transmission

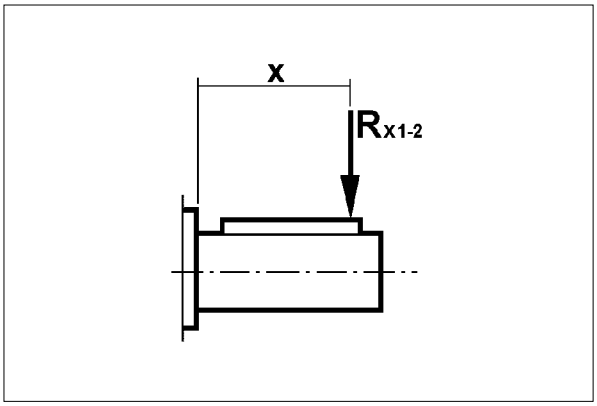
K_r = 1.25	Gear transmission
K_r = 1.5	V-belt transmission
K_r = 2.0	Flat belt transmission

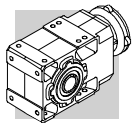
Verification of OHL capability varies depending on whether load applies at midpoint of shaft or it is shifted further out:

(C 35)



(C 36)





a) Load applied at midpoint of shaft, tab. (C36)

A comparison of shaft loading with catalogue OHL ratings should verify the following condition:

Rc1 ≤ Rn1 [input shaft]

or

Rc2 ≤ Rn2 [output shaft]

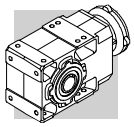
b) Load off the midpoint tab. (C37)

When load is shifted at an “x” distance from shaft shoulder, permissible load must be calculated for that distance.
Revised permissible overhung loads Rx1 (input) and Rx2 (output) are calculated respectively from original rated values Rn1 and Rn2 through factor:

$$\frac{a}{b+x} \qquad (27)$$

(C 37)

	Load location factors [in]					
	Output shaft			Input shaft		
	a	**b**	**c**	**a**	**b**	**c**
A 05 2	4.6	3.4	17.7	—	—	—
A 10 2	4.8	4.0	23.6	0.8	0	11.8
A 20 2	5.9	4.7	29.5	1.6	0.8	13.8
A 20 3	5.9	4.7	29.5	0.8	0	11.8
A 30 2	6.6	5.4	35.4	1.5	0.7	13.8
A 30 3	6.6	5.4	35.4	0.8	0	11.8
A 35 2	7.2	5.8	37.4	1.5	0.7	13.8
A 35 3	7.2	5.8	37.4	0.8	0	11.8
A 41 2	7.8	6.2	41.3	1.9	1.0	17.7
A 41 3	7.8	6.2	41.3	1.6	0.8	13.8
A 50 2 - A 50 3	9.5	7.9	51.2	1.9	1.0	17.7
A 50 4	9.5	7.9	51.2	1.5	0.7	13.8
A 55 2 - A 55 3	9.1	7.0	51.2	1.9	1.0	17.7
A 55 4	9.1	7.0	51.2	1.5	0.7	13.8
A 60 2 - A 60 3	9.5	7.5	61.0	2.2	1.0	23.6
A 60 4	9.5	7.5	61.0	1.9	1.0	17.7
A 70 3	11.6	9.1	74.8	3.4	1.2	39.4
A 70 4	11.6	9.1	74.8	1.9	1.0	17.7
A 80 3	13.6	11.0	94.5	3.4	1.2	39.4
A 80 4	13.6	11.0	94.5	1.9	1.0	17.7
A 90 3	17.0	12.9	118.1	4.6	1.8	55.1
A 90 4	17.0	12.9	118.1	1.9	1.0	17.7



Verification procedure is described here after.

INPUT SHAFT

1. Calculate:

$$R_{x1} = R_{n1} \cdot \frac{a}{b + x} \quad (28)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \quad (29)$$

Finally, the following condition must be verified:

$$R_{c1} \leq R_{x1} \quad (30)$$

OUTPUT SHAFT

1. Calculate:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \quad (31)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \quad (32)$$

Finally, the following condition must be verified:

$$R_{c2} \leq R_{x2} \quad (33)$$

36 THRUST LOADS, A_{n1}, A_{n2}

Permissible thrust loads on input [A_{n1}] and output [A_{n2}] shafts are obtained from the radial loading for the shaft under consideration [R_{n1}] and [R_{n2}] through the following equation:

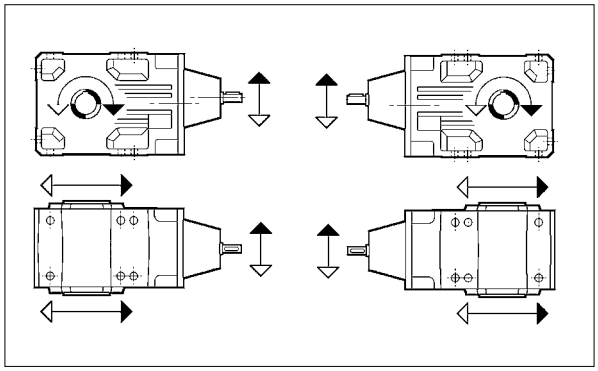
$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \qquad (34)$$

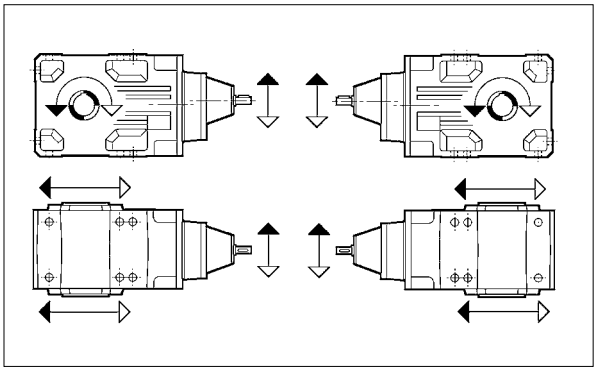
The thrust loads calculated through these formulas apply to thrust forces occurring at the same time as rated radial loads.
In the only case that no overhung load acts on the shaft the value of the admissible thrust load [A_n] amounts to 50% of rated OHL [R_n] on same shaft.
Where thrust loads exceed permissible value or largely prevail over radial loads, contact Bonfiglioli Riduttori for an in-depth analysis of the application.

37 SHAFTS ARRANGEMENT

The following table shows standard directions of rotation for 2, 3 and 4 stage helical-bevel gearboxes.

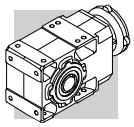
(C 38)





2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60
3x	A 60	A 70	A 80	A 90				
4x	A 50	A 55						

2x	A 55					
3x	A 20	A 30	A 35	A 41	A 50	A 55
4x	A 60	A 70	A 80	A 90		



38 GEARMOTOR RATING CHARTS

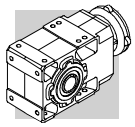
TThe selection of motors without brake takes into account the requirements of Regulation EC 640/2009
(see section **M** of this catalogue. When the motor rated power is below 0.75kW (1 HP), BN/M motors can be provided.
Considering that the Regulation EC 640/2009 shall not apply to the motors equipped with brake, the brakemotor selection takes into account **BN/M** motors only, without taking into account the rated power. B**X, BE, MX** and **ME** brakemotors are available on request.

0.16 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
4.2	2195	1.3	400.8	1977	**A303_400.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
4.3	2154	1.8	393.2	2498	**A353_393.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	332...335
4.4	2086	1.0	380.8	1277	**A203_380.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
4.7	1951	1.6	356.3	1977	**A303_356.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
5.0	1859	2.3	339.3	2498	**A353_339.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	332...335
5.1	1804	1.1	329.4	1277	**A203_329.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
5.4	1723	1.9	314.6	1977	**A303_314.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
5.8	1604	1.3	292.8	1277	**A203_292.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
6.2	1487	2.1	271.5	1977	**A303_271.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
6.5	1427	1.4	260.5	1277	**A203_260.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
6.9	1338	2.3	244.3	1977	**A303_244.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
7.6	1212	1.7	221.3	1277	**A203_221.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
7.8	1186	2.5	216.6	1977	**A303_216.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
8.5	1091	1.9	199.2	1277	**A203_199.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
8.5	1087	2.6	198.5	1977	**A303_198.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
9.5	978	2.9	178.5	1977	**A303_178.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	322...325
9.5	976	2.1	178.3	1277	**A203_178.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
10.3	895	2.2	163.4	1277	**A203_163.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
11.6	800	2.4	146.1	1277	**A203_146.1**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
13.1	707	2.5	129.1	1277	**A203_129.1**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
14.0	660	2.6	120.5	1277	**A203_120.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
15.5	598	2.8	109.2	1277	**A203_109.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	312...315
18.4	518	1.7	91.6	898	**A052_91.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	296, 297
18.4	518	2.2	91.6	1118	**A102_91.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	302...305
22.1	432	2.0	76.4	860	**A052_76.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	296, 297
25.6	373	2.4	65.9	827	**A052_65.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	296, 297
28.8	332	2.7	58.6	803	**A052_58.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	296, 297

0.25 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
2.1	6621	2.7	793.0	6245	**A554_793.0**		**P63+BN63B4**	**N56C**	362...365
2.1	6498	2.0	778.2	4119	**A504_778.2**		**P63+BN63B4**	**N56C**	352...355
2.3	5968	2.9	714.7	6245	**A554_714.7**		**P63+BN63B4**	**N56C**	362...365
2.4	5911	2.2	707.9	4119	**A504_707.9**		**P63+BN63B4**	**N56C**	352...355

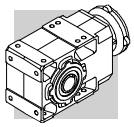


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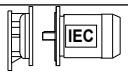
n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
2.6	5271	2.5	631.2	4119	**A504_631.2**		**P63+BN63B4**	**N56C**	352...355
2.9	4795	2.8	574.2	4119	**A504_574.2**		**P63+BN63B4**	**N56C**	352...355
4.2	3357	1.1	393.2	2498	**A353_393.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	332...335
4.4	3217	2.3	376.8	3092	**A413_376.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	342...345
4.7	3042	1.0	356.3	1977	**A303_356.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
4.9	2897	1.5	339.3	2498	**A353_339.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	332...335
5.2	2768	2.7	324.2	3092	**A413_324.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	342...345
5.3	2686	1.2	314.6	1977	**A303_314.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
5.5	2607	2.0	305.4	2498	**A353_305.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	332...335
6.2	2318	1.3	271.5	1977	**A303_271.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
6.2	2311	2.2	270.7	2498	**A353_270.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	332...335
6.4	2224	0.9	260.5	1277	**A203_260.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
6.7	2119	2.4	248.1	2498	**A353_248.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	332...335
6.8	2086	1.5	244.3	1977	**A303_244.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
7.5	1905	2.6	223.2	2498	**A353_223.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	332...335
7.5	1889	1.1	221.3	1277	**A203_221.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
7.7	1849	1.6	216.6	1977	**A303_216.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
8.3	1723	2.9	201.8	2498	**A353_201.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	332...335
8.4	1701	1.2	199.2	1277	**A203_199.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
8.4	1695	1.7	198.5	1977	**A303_198.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
9.4	1524	1.9	178.5	1977	**A303_178.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
9.4	1522	1.3	178.3	1277	**A203_178.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
10.2	1395	1.4	163.4	1277	**A203_163.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
10.3	1378	2.0	161.4	1977	**A303_161.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
11.1	1286	2.1	150.7	1977	**A303_150.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
11.4	1248	1.5	146.1	1277	**A203_146.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
12.2	1173	2.2	137.4	1977	**A303_137.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
12.9	1103	1.6	129.1	1277	**A203_129.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
13.9	1029	1.7	120.5	1277	**A203_120.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
13.9	1028	2.4	120.5	1977	**A303_120.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
15.3	932	1.8	109.2	1277	**A203_109.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
15.3	931	2.6	109.1	1977	**A303_109.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	322...325
18.1	814	2.0	92.3	1277	**A202_92.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
18.2	808	1.1	91.6	837	**A052_91.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297
18.2	808	1.4	91.6	1118	**A102_91.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	302...305
20.9	704	2.4	79.9	1277	**A202_79.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
21.9	674	1.3	76.4	809	**A052_76.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297
21.9	674	2.0	76.4	1118	**A102_76.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	302...305
23.5	626	2.8	71.0	1277	**A202_71.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	312...315
25.3	581	1.5	65.9	784	**A052_65.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297
25.3	581	2.3	65.9	1118	**A102_65.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	302...305
28.5	517	1.7	58.6	764	**A052_58.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297
28.5	517	2.6	58.6	1118	**A102_58.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	302...305
32.6	452	2.0	51.3	740	**A052_51.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297
32.6	452	2.9	51.3	1118	**A102_51.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	302...305
36.8	400	2.2	45.4	719	**A052_45.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297
40.9	360	2.5	40.9	699	**A052_40.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297
47.6	310	2.9	35.1	673	**A052_35.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	296, 297

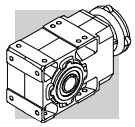
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n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.0	18914	2.3	1715.0	10420	**A704_1715**		**P71+BN71A4**	**N56C**	382...385
1.1	17459	2.5	1583.1	10420	**A704_1583**		**P71+BN71A4**	**N56C**	382...385
1.2	14843	3.0	1345.9	10420	**A704_1346**		**P71+BN71A4**	**N56C**	382...385

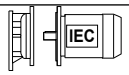


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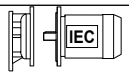
n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IEC IE1	 NEMA	
2.1	8745	2.0	793.0	6245	**A554_793.0**		**P71+BN71A4**	**N56C**	362...365
2.1	8583	1.5	778.2	4119	**A504_778.2**		**P71+BN71A4**	**N56C**	352...355
2.2	8331	3.0	755.4	6252	**A604_755.4**		**P71+BN71A4**	**N56C**	372...375
2.3	7882	2.2	714.7	6245	**A554_714.7**		**P71+BN71A4**	**N56C**	362...365
2.4	7807	1.7	707.9	4119	**A504_707.9**		**P71+BN71A4**	**N56C**	352...355
2.5	7225	2.4	655.1	6245	**A554_655.1**		**P71+BN71A4**	**N56C**	362...365
2.6	6962	1.9	631.2	4119	**A504_631.2**		**P71+BN71A4**	**N56C**	352...355
2.8	6611	2.6	599.5	6245	**A554_599.5**		**P71+BN71A4**	**N56C**	362...365
2.9	6333	2.1	574.2	4119	**A504_574.2**		**P71+BN71A4**	**N56C**	352...355
3.1	5977	2.8	542.0	6245	**A554_542.0**		**P71+BN71A4**	**N56C**	362...365
3.2	5839	2.3	529.5	4119	**A504_529.5**		**P71+BN71A4**	**N56C**	352...355
3.5	5312	2.5	481.6	4119	**A504_481.6**		**P71+BN71A4**	**N56C**	352...355
3.7	4928	2.7	446.8	4119	**A504_446.8**		**P71+BN71A4**	**N56C**	352...355
4.1	4482	3.0	406.4	4119	**A504_406.4**		**P71+BN71A4**	**N56C**	352...355
4.4	4249	1.8	376.8	3092	**A413_376.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	342...345
4.9	3826	1.1	339.3	2498	**A353_339.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
5.2	3655	2.1	324.2	3092	**A413_324.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	342...345
5.3	3547	0.9	314.6	1977	**A303_314.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
5.5	3444	1.5	305.4	2498	**A353_305.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
5.7	3290	2.3	291.7	3092	**A413_291.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	342...345
6.2	3061	1.0	271.5	1977	**A303_271.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
6.2	3052	1.7	270.7	2498	**A353_270.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
6.4	2960	2.5	262.5	3092	**A413_262.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	342...345
6.7	2798	1.8	248.1	2498	**A353_248.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
6.8	2755	1.1	244.3	1977	**A303_244.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
6.9	2713	2.8	240.6	3092	**A413_240.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	342...345
7.5	2517	2.0	223.2	2498	**A353_223.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
7.7	2442	1.2	216.6	1977	**A303_216.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
8.3	2275	2.2	201.8	2498	**A353_201.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
8.4	2246	0.9	199.2	1277	**A203_199.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
8.4	2238	1.3	198.5	1977	**A303_198.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
8.9	2124	2.3	188.3	2498	**A353_188.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
9.4	2013	1.4	178.5	1977	**A303_178.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
9.4	2010	1.0	178.3	1277	**A203_178.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
9.7	1937	2.5	171.8	2498	**A353_171.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
10.2	1843	1.0	163.4	1277	**A203_163.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
10.3	1820	1.5	161.4	1977	**A303_161.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
11.1	1699	1.6	150.7	1977	**A303_150.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
11.1	1698	2.9	150.6	2498	**A353_150.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	332...335
11.4	1648	1.1	146.1	1277	**A203_146.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
12.2	1550	1.7	137.4	1977	**A303_137.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
12.9	1456	1.2	129.1	1277	**A203_129.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
13.9	1359	1.3	120.5	1277	**A203_120.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
13.9	1358	1.8	120.5	1977	**A303_120.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
15.3	1231	1.4	109.2	1277	**A203_109.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
15.3	1230	2.0	109.1	1977	**A303_109.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	322...325
17.1	1136	2.3	97.5	1977	**A302_97.5**		**P71+BN71A4**	**N56C**	322...325
18.1	1075	1.5	92.3	1277	**A202_92.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
18.2	1067	1.1	91.6	1118	**A102_91.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	302...305
19.3	1010	2.8	86.7	1977	**A302_86.7**		**P71+BN71A4**	**N56C**	322...325
20.9	930	1.9	79.9	1277	**A202_79.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
21.9	890	1.0	76.4	786	**A052_76.4**	**S05+M05C4**			296, 297
21.9	890	1.5	76.4	1118	**A102_76.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	302...305
23.5	827	2.1	71.0	1277	**A202_71.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315
25.3	768	1.2	65.9	762	**A052_65.9**	**S05+M05C4**			296, 297
25.3	768	1.7	65.9	1118	**A102_65.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	302...305
26.4	735	2.7	63.1	1277	**A202_63.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	312...315

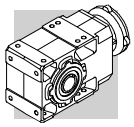


0.33 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IEC IE1	 NEMA	
28.5	683	1.3	58.6	748	**A052_58.6**	**S05+M05C4**			296, 297
28.5	683	1.9	58.6	1118	**A102_58.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	302...305
32.6	597	1.5	51.3	701	**A052_51.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	296, 297
32.6	597	2.2	51.3	1118	**A102_51.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	302...305
36.8	529	1.7	45.4	685	**A052_45.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	296, 297
36.8	529	2.5	45.4	1118	**A102_45.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	302...305
40.9	476	1.9	40.9	669	**A052_40.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	296, 297
40.9	476	2.8	40.9	1118	**A102_40.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	302...305
47.6	409	2.2	35.1	646	**A052_35.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	296, 297
51.9	375	2.4	32.2	634	**A052_32.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	296, 297
58.5	333	2.7	28.6	616	**A052_28.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	296, 297
65.6	297	3.0	25.5	597	**A052_25.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	296, 297

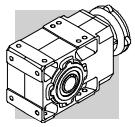
0.50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IEC IE1	 NEMA	
1.0	28236	1.6	1715.0	10420	**A704_1715**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	382...385
1.1	26064	1.7	1583.1	10420	**A704_1583**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	382...385
1.1	25645	2.8	1557.7	13561	**A804_1558**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	390...393
1.2	23673	3.0	1437.8	13561	**A804_1438**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	390...393
1.3	22158	2.0	1345.9	10420	**A704_1346**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	382...385
1.4	20454	2.2	1242.3	10420	**A704_1242**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	382...385
1.5	19123	2.3	1161.5	10420	**A704_1161**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	382...385
1.6	17652	2.5	1072.1	10420	**A704_1072**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	382...385
1.8	15255	2.9	926.5	10420	**A704_926.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	382...385
2.1	13056	1.4	793.0	6245	**A554_793.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	362...365
2.2	12813	1.0	778.2	4119	**A504_778.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
2.3	12437	2.0	755.4	6252	**A604_755.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	372...375
2.4	11766	1.5	714.7	6245	**A554_714.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	362...365
2.4	11655	1.1	707.9	4119	**A504_707.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
2.4	11480	2.2	697.3	6252	**A604_697.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	372...375
2.6	10786	1.6	655.1	6245	**A554_655.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	362...365
2.7	10448	2.4	634.6	6252	**A604_634.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	372...375
2.7	10393	1.3	631.2	4119	**A504_631.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
2.8	9870	1.7	599.5	6245	**A554_599.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	362...365
2.9	9644	2.6	585.8	6252	**A604_585.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	372...375
3.0	9454	1.4	574.2	4119	**A504_574.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
3.1	8924	2.8	542.0	6252	**A604_542.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	372...375
3.1	8923	1.9	542.0	6245	**A554_542.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	362...365
3.2	8717	1.5	529.5	4119	**A504_529.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
3.4	8329	2.0	505.9	6245	**A554_505.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	362...365
3.5	7930	1.7	481.6	4119	**A504_481.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
3.8	7356	1.8	446.8	4119	**A504_446.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
4.1	6815	2.4	414.0	6245	**A554_414.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	362...365
4.2	6691	2.0	406.4	4119	**A504_406.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
4.5	6344	1.2	376.8	3092	**A413_376.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
4.6	6020	2.2	365.6	4119	**A504_365.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
5.1	5476	2.4	332.6	4119	**A504_332.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355
5.2	5457	1.4	324.2	3092	**A413_324.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
5.6	5141	1.0	305.4	2498	**A353_305.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
5.8	4911	1.5	291.7	3092	**A413_291.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
5.9	4722	2.8	286.8	4119	**A504_286.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	352...355



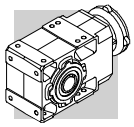
0.50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
6.3	4557	1.1	270.7	2498	**A353_270.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
6.5	4418	1.7	262.5	3092	**A413_262.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
6.9	4177	1.2	248.1	2498	**A353_248.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
7.1	4050	1.9	240.6	3092	**A413_240.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
7.6	3757	1.3	223.2	2498	**A353_223.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
7.8	3660	2.1	217.4	3092	**A413_217.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
8.4	3397	1.4	201.8	2498	**A353_201.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
8.6	3325	2.3	197.5	3092	**A413_197.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
9.0	3170	1.6	188.3	2498	**A353_188.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
9.2	3104	2.4	184.4	3092	**A413_184.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	342...345
9.5	3006	0.9	178.5	1812	**A303_178.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	322...325
9.9	2892	1.7	171.8	2498	**A353_171.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
10.5	2717	1.0	161.4	1884	**A303_161.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	322...325
11.3	2536	1.1	150.7	1977	**A303_150.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	322...325
11.3	2535	1.9	150.6	2498	**A353_150.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
12.4	2313	1.1	137.4	1977	**A303_137.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	322...325
12.5	2295	2.1	136.3	2498	**A353_136.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
14.1	2028	1.2	120.5	1977	**A303_120.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	322...325
14.5	1968	2.3	116.9	2498	**A353_116.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
15.6	1838	0.9	109.2	1163	**A203_109.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	312...315
15.6	1836	1.3	109.1	1977	**A303_109.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	322...325
16.1	1777	2.4	105.5	2498	**A353_105.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
17.4	1695	1.6	97.5	1977	**A302_97.5**		**P71+BN71B4**	**N56C**	322...325
17.8	1663	2.9	95.6	2498	**A352_95.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	332...335
18.4	1605	1.0	92.3	1215	**A202_92.3**		**P71+BN71B4**	**N56C**	312...315
19.6	1507	1.9	86.7	1977	**A302_86.7**		**P71+BN71B4**	**N56C**	322...325
21.3	1389	1.2	79.9	1277	**A202_79.9**		**P71+BN71B4**	**N56C**	312...315
22.2	1331	2.3	76.5	1977	**A302_76.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	322...325
22.2	1329	1.0	76.4	1047	**A102_76.4**		**P71+BN71B4**	**N56C**	302...305
23.9	1234	1.4	71.0	1277	**A202_71.0**		**P71+BN71B4**	**N56C**	312...315
25.8	1146	1.2	65.9	1079	**A102_65.9**		**P71+BN71B4**	**N56C**	302...305
26.9	1098	1.8	63.1	1277	**A202_63.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	312...315
29.0	1019	1.3	58.6	1095	**A102_58.6**		**P71+BN71B4**	**N56C**	302...305
32	933	2.4	53.7	1254	**A202_53.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	312...315
33	891	1.0	51.3	630	**A052_51.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
33	891	1.5	51.3	1116	**A102_51.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	302...305
35	840	2.6	48.3	1223	**A202_48.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	312...315
37	789	1.1	45.4	622	**A052_45.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
37	789	1.7	45.4	1087	**A102_45.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	302...305
39	752	2.9	43.2	1190	**A202_43.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	312...315
42	710	1.2	40.9	614	**A052_40.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
42	710	1.9	40.9	1118	**A102_40.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	302...305
48	611	1.4	35.1	600	**A052_35.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
48	611	2.2	35.1	1024	**A102_35.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	302...305
53	560	1.6	32.2	589	**A052_32.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
53	560	2.4	32.2	1118	**A102_32.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	302...305
60	497	1.8	28.6	577	**A052_28.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
60	497	2.7	28.6	973	**A102_28.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	302...305
67	443	2.0	25.5	563	**A052_25.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
67	443	3.0	25.5	1118	**A102_25.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	302...305
72	413	2.1	23.8	555	**A052_23.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
80	371	2.4	21.4	543	**A052_21.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
92	323	2.6	18.6	526	**A052_18.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297
103	286	2.9	16.4	510	**A052_16.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	296, 297



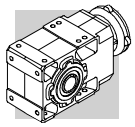
0.75 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
1.0	42151	1.0	1715.0	10420	**A704_1715**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
1.1	38909	1.1	1583.1	10420	**A704_1583**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
1.1	38284	1.8	1557.7	13561	**A804_1558**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	390...393
1.2	35339	2.0	1437.8	13561	**A804_1438**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	390...393
1.3	33078	1.3	1345.9	10420	**A704_1346**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
1.3	32932	2.2	1339.9	13561	**A804_1340**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	390...393
1.4	30534	1.4	1242.3	10420	**A704_1242**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
1.4	30399	2.3	1236.9	13561	**A804_1237**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	390...393
1.5	28547	1.6	1161.5	10420	**A704_1161**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
1.6	26664	2.7	1084.9	13561	**A804_1085**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	390...393
1.6	26351	1.7	1072.1	10420	**A704_1072**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
1.7	24613	2.9	1001.4	13561	**A804_1001**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	390...393
1.8	22772	1.9	926.5	10420	**A704_926.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
2.0	21021	2.1	855.3	10420	**A704_855.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
2.2	19490	0.9	793.0	6245	**A554_793.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
2.2	18775	2.4	763.9	10420	**A704_763.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
2.3	18566	1.3	755.4	6252	**A604_755.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
2.4	17565	1.0	714.7	6245	**A554_714.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
2.4	17331	2.6	705.1	10420	**A704_705.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
2.5	17138	1.4	697.3	6252	**A604_697.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
2.6	16101	1.1	655.1	6245	**A554_655.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
2.7	15843	2.8	644.6	10420	**A704_644.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	382...385
2.7	15597	1.6	634.6	6252	**A604_634.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
2.9	14734	1.2	599.5	6245	**A554_599.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
2.9	14397	1.7	585.8	6252	**A604_585.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
3.0	14112	0.9	574.2	4119	**A504_574.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
3.2	13321	1.9	542.0	6252	**A604_542.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
3.2	13321	1.3	542.0	6245	**A554_542.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
3.2	13014	1.0	529.5	4119	**A504_529.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
3.4	12433	1.4	505.9	6245	**A554_505.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
3.4	12297	2.0	500.3	6252	**A604_500.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
3.6	11837	1.1	481.6	4119	**A504_481.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
3.8	10982	1.2	446.8	4119	**A504_446.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
3.9	10775	2.3	438.4	6252	**A604_438.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
4.1	10174	1.6	414.0	6245	**A554_414.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
4.2	9989	1.3	406.4	4119	**A504_406.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
4.2	9946	2.5	404.7	6252	**A604_404.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
4.7	8987	1.5	365.6	4119	**A504_365.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
4.9	8632	2.9	351.2	6252	**A604_351.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
5.1	8174	1.6	332.6	4119	**A504_332.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
5.3	7981	2.1	324.7	6245	**A554_324.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
5.3	8146	0.9	324.2	6252	**A604_324.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	372...375
5.9	7331	1.0	291.7	3092	**A413_291.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
6.0	7049	1.9	286.8	4119	**A504_286.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
6.5	6455	2.5	262.6	6245	**A554_262.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	362...365
6.5	6596	1.1	262.5	3092	**A413_262.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
6.6	6412	2.1	260.9	4119	**A504_260.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
7.1	6046	1.2	240.6	3092	**A413_240.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
7.4	5702	2.3	232.0	4119	**A504_232.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
7.9	5463	1.4	217.4	3092	**A413_217.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
8.1	5186	2.6	211.0	4119	**A504_211.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
8.5	5071	1.0	201.8	2498	**A353_201.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
8.7	4964	1.5	197.5	3092	**A413_197.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
9.0	4789	2.8	190.6	4119	**A503_190.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	352...355
9.1	4733	1.0	188.3	2498	**A353_188.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
9.3	4633	1.6	184.4	3092	**A413_184.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
10.0	4317	1.1	171.8	2498	**A353_171.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335



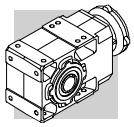
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n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
11.4	3784	1.3	150.6	2498	**A353_150.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
11.6	3691	2.0	146.9	3092	**A413_146.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
12.5	3426	1.4	136.3	2498	**A353_136.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
14.6	2938	1.6	116.9	2498	**A353_116.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
14.8	2912	2.4	115.9	3092	**A413_115.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
16.2	2652	1.6	105.5	2498	**A353_105.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
17.5	2531	1.0	97.5	1977	**A302_97.5**		**P80+BN80A4**	**N56C**	322...325
17.9	2483	1.9	95.6	2498	**A352_95.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
18.4	2331	2.8	92.8	3092	**A413_92.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	342...345
19.7	2250	1.3	86.7	1940	**A302_86.7**		**P80+BN80A4**	**N56C**	322...325
20.7	2143	2.5	82.5	2498	**A352_82.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
22.3	1986	1.6	76.5	1890	**A302_76.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	322...325
23.0	1928	2.8	74.3	2498	**A352_74.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	332...335
24.1	1843	0.9	71.0	1161	**A202_71.0**		**P80+BN80A4**	**N56C**	312...315
25.9	1714	2.0	66.0	1829	**A302_66.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	322...325
27.1	1639	1.2	63.1	1203	**A202_63.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
28.8	1543	2.3	59.4	1783	**A302_59.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	322...325
32	1393	1.6	53.7	1168	**A202_53.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
32	1367	2.7	52.7	1732	**A302_52.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	322...325
33	1331	1.0	51.3	990	**A102_51.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
35	1253	1.8	48.3	1145	**A202_48.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
35	1253	2.9	48.3	1695	**A302_48.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	322...325
38	1178	1.1	45.4	998	**A102_45.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
40	1122	2.0	43.2	1120	**A202_43.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
42	1061	1.3	40.9	1118	**A102_40.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
43	1028	2.2	39.6	1100	**A202_39.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
48	920	2.4	35.4	1071	**A202_35.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
49	912	1.0	35.1	539	**A052_35.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
49	912	1.5	35.1	955	**A102_35.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
53	836	1.1	32.2	549	**A052_32.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
53	836	1.6	32.2	1116	**A102_32.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
55	813	2.7	31.3	1042	**A202_31.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
59	758	2.9	29.2	1023	**A202_29.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	312...315
60	742	1.2	28.6	518	**A052_28.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
60	742	1.8	28.6	917	**A102_28.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
67	661	1.3	25.5	510	**A052_25.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
67	661	2.0	25.5	1063	**A102_25.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
72	617	1.4	23.8	506	**A052_23.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
72	617	2.2	23.8	880	**A102_23.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
80	554	1.6	21.4	498	**A052_21.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
80	554	2.4	21.4	1020	**A102_21.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
92	482	1.7	18.6	488	**A052_18.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
92	482	2.7	18.6	831	**A102_18.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
104	427	1.9	16.4	476	**A052_16.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
104	427	2.9	16.4	957	**A102_16.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	302...305
123	362	2.3	13.9	461	**A052_13.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
139	319	2.8	12.3	451	**A052_12.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297
162	274	3.0	10.6	433	**A052_10.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	296, 297



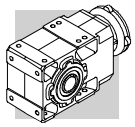
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n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
1.1	52721	2.4	1632.3	15664	**A904_1632**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	398...401
1.1	50309	1.4	1557.7	13561	**A804_1558**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
1.2	48665	2.5	1506.8	15664	**A904_1507**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	398...401
1.2	46439	1.5	1437.8	13561	**A804_1438**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
1.3	43468	1.0	1345.9	10420	**A704_1346**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
1.3	43277	1.6	1339.9	13561	**A804_1340**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
1.3	42763	2.9	1324.0	15664	**A904_1324**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	398...401
1.4	40125	1.1	1242.3	10420	**A704_1242**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
1.4	39948	1.8	1236.9	13561	**A804_1237**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
1.5	37513	1.2	1161.5	10420	**A704_1161**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
1.6	35039	2.0	1084.9	13561	**A804_1085**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
1.6	34628	1.3	1072.1	10420	**A704_1072**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
1.7	32344	2.2	1001.4	13561	**A804_1001**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
1.9	29925	1.5	926.5	10420	**A704_926.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
1.9	29024	2.4	898.7	13561	**A804_898.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
2.0	27623	1.6	855.3	10420	**A704_855.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
2.1	26792	2.6	829.5	13561	**A804_829.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
2.3	24672	1.8	763.9	10420	**A704_763.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
2.3	24614	2.9	762.1	13561	**A804_762.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	390...393
2.3	24398	1.0	755.4	6252	**A604_755.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
2.5	22774	1.9	705.1	10420	**A704_705.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
2.5	22521	1.1	697.3	6252	**A604_697.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
2.7	20820	2.1	644.6	10420	**A704_644.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
2.7	20496	1.2	634.6	6252	**A604_634.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
2.9	19218	2.3	595.0	10420	**A704_595.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
3.0	18919	1.3	585.8	6252	**A604_585.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
3.2	17506	1.4	542.0	6252	**A604_542.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
3.2	17505	1.0	542.0	6245	**A554_542.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	362...365
3.4	16647	2.7	515.4	10420	**A704_515.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
3.4	16338	1.0	505.9	6245	**A554_505.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	362...365
3.5	16159	1.5	500.3	6252	**A604_500.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
3.7	15366	2.9	475.8	10420	**A704_475.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	382...385
3.9	14431	0.9	446.8	4119	**A504_446.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
4.0	14159	1.8	438.4	6252	**A604_438.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
4.2	13370	1.2	414.0	6245	**A554_414.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	362...365
4.3	13127	1.0	406.4	4119	**A504_406.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
4.3	13070	1.9	404.7	6252	**A604_404.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
4.8	11809	1.1	365.6	4119	**A504_365.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
5.0	11343	2.2	351.2	6252	**A604_351.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
5.2	10742	1.2	332.6	4119	**A504_332.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
5.4	10487	1.6	324.7	6245	**A554_324.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	362...365
5.4	10471	2.4	324.2	6252	**A604_324.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
6.1	9263	1.4	286.8	4119	**A504_286.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
6.1	9247	2.7	286.3	6252	**A604_286.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
6.6	8536	2.9	264.3	6252	**A604_264.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	372...375
6.6	8483	1.9	262.6	6245	**A554_262.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	362...365
6.7	8426	1.6	260.9	4119	**A504_260.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
7.3	7945	0.9	240.6	3092	**A413_240.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
7.5	7493	1.8	232.0	4119	**A504_232.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
8.0	7179	1.0	217.4	3092	**A413_217.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
8.3	6815	1.9	211.0	4119	**A504_211.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
8.4	6720	2.4	208.1	6245	**A554_208.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	362...365
8.8	6523	1.2	197.5	3092	**A413_197.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
9.0	6413	2.8	194.2	6245	**A553_194.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	362...365
9.2	6294	2.1	190.6	4119	**A503_190.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
9.5	6088	1.2	184.4	3092	**A413_184.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
10.1	5725	2.3	173.4	4119	**A503_173.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
11.3	5105	2.6	154.6	4119	**A503_154.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
11.6	4973	1.0	150.6	2498	**A353_150.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335



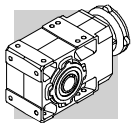
1 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IE2	IE3	NEMA	
11.9	4851	1.6	146.9	3092	**A413_146.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
12.4	4644	2.9	140.6	4119	**A503_140.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	352...355
12.8	4502	1.0	136.3	2498	**A353_136.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
14.9	3861	1.2	116.9	2498	**A353_116.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
15.1	3826	1.9	115.9	3092	**A413_115.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
16.5	3485	1.2	105.5	2498	**A353_105.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
18.2	3263	1.5	95.6	2498	**A352_95.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
18.8	3064	2.1	92.8	3092	**A413_92.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
20.1	2956	1.0	86.7	1792	**A302_86.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
21.1	2816	1.9	82.5	2498	**A352_82.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
22.0	2703	2.6	79.2	3092	**A412_79.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
22.8	2610	1.2	76.5	1767	**A302_76.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
23.5	2534	2.1	74.3	2498	**A352_74.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
24.5	2433	2.9	71.3	3092	**A412_71.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	342...345
26.4	2252	1.5	66.0	1722	**A302_66.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
26.5	2246	2.4	65.8	2498	**A352_65.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
27.6	2154	0.9	63.1	1061	**A202_63.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
28.9	2059	2.6	60.4	2498	**A352_60.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
29.4	2027	1.7	59.4	1687	**A302_59.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
32	1852	2.9	54.3	2498	**A352_54.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	332...335
33	1830	1.2	53.7	1073	**A202_53.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
33	1797	2.0	52.7	1645	**A302_52.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
36	1647	1.3	48.3	1058	**A202_48.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
36	1647	2.2	48.3	1614	**A302_48.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
40	1481	2.4	43.4	1577	**A302_43.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
40	1474	1.5	43.2	1042	**A202_43.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
43	1394	1.0	40.9	898	**A102_40.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
44	1351	1.6	39.6	1028	**A202_39.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
44	1339	2.7	39.3	1540	**A302_39.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
48	1250	2.9	36.6	1516	**A302_36.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	322...325
49	1209	1.8	35.4	1007	**A202_35.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
50	1198	1.1	35.1	878	**A102_35.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
54	1098	1.2	32.2	1032	**A102_32.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
56	1068	2.1	31.3	984	**A202_31.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
60	997	2.2	29.2	970	**A202_29.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
61	975	0.9	28.6	471	**A052_28.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
61	975	1.4	28.6	854	**A102_28.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
66	903	2.4	26.5	951	**A202_26.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
69	869	1.0	25.5	478	**A052_25.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
69	869	1.5	25.5	996	**A102_25.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
73	811	1.1	23.8	447	**A052_23.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
73	811	1.6	23.8	827	**A102_23.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
76	788	2.6	23.1	923	**A202_23.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
82	729	1.2	21.4	449	**A052_21.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
82	729	1.8	21.4	963	**A102_21.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
82	724	2.8	21.2	904	**A202_21.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	312...315
94	634	1.3	18.6	445	**A052_18.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
94	634	2.1	18.6	789	**A102_18.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
106	561	1.5	16.4	439	**A052_16.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
106	561	2.2	16.4	912	**A102_16.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
125	475	1.7	13.9	429	**A052_13.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
125	475	2.6	13.9	740	**A102_13.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
142	420	2.1	12.3	423	**A052_12.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
142	420	2.7	12.3	717	**A102_12.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	302...305
165	360	2.3	10.6	408	**A052_10.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
181	328	2.6	9.6	404	**A052_9.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297
205	291	2.8	8.5	394	**A052_8.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	296, 297



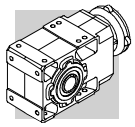
1.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
1.1	77152	1.6	1632.3	15664	**A904_1632**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	398...401
1.1	73623	1.0	1557.7	13561	**A804_1558**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
1.2	71217	1.7	1506.8	15664	**A904_1507**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	398...401
1.2	67960	1.0	1437.8	13561	**A804_1438**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
1.3	63332	1.1	1339.9	13561	**A804_1340**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
1.3	62580	2.0	1324.0	15664	**A904_1324**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	398...401
1.4	58460	1.2	1236.9	13561	**A804_1237**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
1.4	57766	2.1	1222.2	15664	**A904_1222**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	398...401
1.6	52492	2.4	1110.6	15664	**A904_1111**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	398...401
1.6	51277	1.4	1084.9	13561	**A804_1085**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
1.7	48454	2.6	1025.2	15664	**A904_1025**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	398...401
1.7	47333	1.5	1001.4	13561	**A804_1001**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
1.9	44296	2.8	937.2	15664	**A904_937.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	398...401
1.9	43793	1.0	926.5	10420	**A704_926.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
1.9	42475	1.7	898.7	13561	**A804_898.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
2.0	40424	1.1	855.3	10420	**A704_855.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
2.1	39208	1.8	829.5	13561	**A804_829.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
2.3	36106	1.2	763.9	10420	**A704_763.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
2.3	36020	2.0	762.1	13561	**A804_762.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
2.5	33328	1.3	705.1	10420	**A704_705.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
2.5	33249	2.1	703.5	13561	**A804_703.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
2.7	30468	1.5	644.6	10420	**A704_644.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
2.9	28697	2.5	607.2	13561	**A804_607.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
2.9	28124	1.6	595.0	10420	**A704_595.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
3.1	26490	2.7	560.5	13561	**A804_560.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	390...393
3.2	25618	1.0	542.0	6252	**A604_542.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
3.4	24361	1.8	515.4	10420	**A704_515.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
3.5	23647	1.0	500.3	6252	**A604_500.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
3.7	22487	2.0	475.8	10420	**A704_475.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
4.0	20720	1.2	438.4	6252	**A604_438.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
4.3	19126	1.3	404.7	6252	**A604_404.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
4.3	18914	2.3	400.2	10420	**A704_400.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
4.7	17459	2.5	369.4	10420	**A704_369.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
5.0	16600	1.5	351.2	6252	**A604_351.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
5.4	15347	1.1	324.7	6245	**A554_324.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
5.4	15323	1.6	324.2	6252	**A604_324.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
5.5	14952	3.0	316.4	10420	**A704_316.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	382...385
6.1	13556	1.0	286.8	4119	**A504_286.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
6.1	13533	1.8	286.3	6252	**A604_286.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
6.6	12492	2.0	264.3	6252	**A604_264.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
6.6	12414	1.3	262.6	6245	**A554_262.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
6.7	12331	1.1	260.9	4119	**A504_260.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
7.5	10965	1.2	232.0	4119	**A504_232.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
7.7	10688	2.3	226.1	6252	**A604_226.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
8.2	9974	1.3	211.0	4119	**A504_211.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
8.3	9866	2.5	208.7	6252	**A604_208.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
8.4	9834	1.6	208.1	6245	**A554_208.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
9.0	9385	1.9	194.2	6245	**A553_194.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
9.1	9211	1.4	190.6	4119	**A503_190.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
9.4	8977	2.8	185.8	6252	**A603_185.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
9.9	8458	2.1	175.0	6245	**A553_175.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
10.0	8378	1.6	173.4	4119	**A503_173.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
10.1	8286	3.0	171.5	6252	**A603_171.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	372...375
10.8	7753	2.3	160.4	6245	**A553_160.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
11.3	7471	1.8	154.6	4119	**A503_154.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
11.8	7098	1.1	146.9	3092	**A413_146.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345



1.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
11.9	7095	2.5	146.8	6245	**A553_146.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
12.4	6796	2.0	140.6	4119	**A503_140.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
13.1	6415	2.8	132.7	6245	**A553_132.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
13.4	6267	2.1	129.7	4119	**A503_129.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
14.0	5987	3.0	123.9	6245	**A553_123.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	362...365
14.8	5700	2.3	118.0	4119	**A503_118.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
15.0	5599	1.3	115.9	3092	**A413_115.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
15.9	5288	2.5	109.4	4119	**A503_109.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
17.5	4810	2.8	99.5	4119	**A503_99.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	352...355
18.2	4775	1.0	95.6	2498	**A352_95.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
18.8	4483	1.5	92.8	3092	**A413_92.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
21.1	4120	1.3	82.5	2498	**A352_82.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
22.0	3956	1.8	79.2	3092	**A412_79.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
23.4	3708	1.4	74.3	2498	**A352_74.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
24.4	3560	2.0	71.3	3092	**A412_71.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
26.4	3296	1.0	66.0	1520	**A302_66.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
26.4	3287	1.6	65.8	2498	**A352_65.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
27.1	3203	2.2	64.2	3092	**A412_64.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
28.8	3013	1.8	60.4	2498	**A352_60.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
29.3	2967	1.2	59.4	1528	**A302_59.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
29.6	2936	2.4	58.8	3092	**A412_58.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
32	2710	2.0	54.3	2498	**A352_54.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
33	2653	2.6	53.1	3092	**A412_53.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
33	2630	1.4	52.7	1505	**A302_52.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
35	2450	2.2	49.1	2456	**A352_49.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
36	2410	0.9	48.3	941	**A202_48.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
36	2410	1.5	48.3	1487	**A302_48.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
36	2410	2.9	48.3	3092	**A412_48.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	342...345
38	2287	2.3	45.8	2436	**A352_45.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
40	2168	1.7	43.4	1462	**A302_43.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
40	2158	1.0	43.2	916	**A202_43.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
42	2086	2.5	41.8	2373	**A352_41.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
44	1978	1.1	39.6	927	**A202_39.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
44	1960	1.9	39.3	1435	**A302_39.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
47	1829	2.0	36.6	1417	**A302_36.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
48	1828	2.9	36.6	2311	**A352_36.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	332...335
49	1769	1.3	35.4	902	**A202_35.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
52	1669	2.1	33.4	1392	**A302_33.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
56	1563	1.4	31.3	890	**A202_31.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
59	1463	2.3	29.3	1355	**A302_29.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
60	1459	1.5	29.2	883	**A202_29.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
61	1426	0.9	28.6	758	**A102_28.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
66	1324	2.5	26.5	1326	**A302_26.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
66	1321	1.6	26.5	871	**A202_26.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
68	1271	1.0	25.5	736	**A102_25.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
73	1187	1.1	23.8	740	**A102_23.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
75	1154	1.8	23.1	853	**A202_23.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
76	1136	3.0	22.8	1281	**A302_22.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	322...325
81	1066	1.2	21.4	870	**A102_21.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
82	1060	1.9	21.2	840	**A202_21.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
94	927	1.4	18.6	719	**A102_18.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
96	904	2.3	18.1	818	**A202_18.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
106	821	1.5	16.4	839	**A102_16.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
108	807	2.5	16.2	799	**A202_16.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
124	703	2.9	14.1	776	**A202_14.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
125	695	1.8	13.9	687	**A102_13.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305

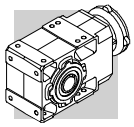


1.5 hp

n_2	T_2	S	i	R_{n2}							
rpm	lb·in			lbs		IE2	IE3	IE2	IE3	NEMA	
141	614	1.9	12.3	671	**A102_12.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
145	597	2.9	12.0	745	**A202_12.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	312...315
165	527	2.3	10.6	652	**A102_10.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
181	480	2.4	9.6	638	**A102_9.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305
204	425	2.7	8.5	738	**A102_8.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	302...305

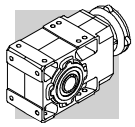
2 hp

n_2	T_2	S	i	R_{n2}							
rpm	lb·in			lbs		IE2	IE3	IE2	IE3	NEMA	
1.1	105441	1.2	1632.3	15664	**A904_1632**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
1.2	97330	1.3	1506.8	15664	**A904_1507**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
1.3	85526	1.4	1324.0	15664	**A904_1324**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
1.4	78947	1.6	1222.2	15664	**A904_1222**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
1.6	71739	1.7	1110.6	15664	**A904_1111**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
1.6	70079	1.0	1084.9	13561	**A804_1085**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
1.7	66221	1.9	1025.2	15664	**A904_1025**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
1.7	64688	1.1	1001.4	13561	**A804_1001**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
1.9	60538	2.0	937.2	15664	**A904_937.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
1.9	58049	1.2	898.7	13561	**A804_898.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
2.0	55881	2.2	865.1	15664	**A904_865.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
2.1	53584	1.3	829.5	13561	**A804_829.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
2.3	49539	2.5	766.9	15664	**A904_766.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
2.3	49227	1.4	762.1	13561	**A804_762.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
2.5	45728	2.7	707.9	15664	**A904_707.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	398...401
2.5	45549	1.0	705.1	10420	**A704_705.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
2.5	45440	1.6	703.5	13561	**A804_703.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
2.7	41640	1.1	644.6	10420	**A704_644.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
2.9	39219	1.8	607.2	13561	**A804_607.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
2.9	38437	1.2	595.0	10420	**A704_595.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
3.1	36203	2.0	560.5	13561	**A804_560.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
3.4	33293	1.3	515.4	10420	**A704_515.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
3.6	30936	2.3	478.9	13561	**A804_478.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
3.7	30732	1.4	475.8	10420	**A704_475.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
3.9	28556	2.5	442.1	13561	**A804_442.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
4.3	26140	0.9	404.7	6252	**A604_404.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
4.3	25849	1.7	400.2	10420	**A704_400.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
4.5	24770	2.9	383.5	13561	**A804_383.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	390...393
4.7	23861	1.9	369.4	10420	**A704_369.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
5.0	22686	1.1	351.2	6252	**A604_351.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
5.4	20941	1.2	324.2	6252	**A604_324.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
5.5	20435	2.2	316.4	10420	**A704_316.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
6.0	18863	2.3	292.0	10420	**A704_292.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
6.1	18495	1.3	286.3	6252	**A604_286.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
6.6	17072	1.5	264.3	6252	**A604_264.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
6.6	16966	1.0	262.6	6245	**A554_262.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
7.3	15413	2.9	238.6	10420	**A704_238.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	382...385
7.7	14607	1.7	226.1	6252	**A604_226.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
8.2	13631	1.0	211.0	4119	**A504_211.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
8.3	13483	1.8	208.7	6252	**A604_208.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
8.4	13439	1.2	208.1	6245	**A554_208.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
9.0	12826	1.4	194.2	6245	**A553_194.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
9.1	12588	1.1	190.6	4119	**A503_190.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355



2 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IE2	IE3	NEMA	
9.4	12269	2.0	185.8	6252	**A603_185.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
9.9	11560	1.5	175.0	6245	**A553_175.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
10.0	11450	1.2	173.4	4119	**A503_173.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
10.1	11325	2.2	171.5	6252	**A603_171.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
10.8	10596	1.7	160.4	6245	**A553_160.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
11.2	10306	2.4	156.0	6252	**A603_156.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
11.3	10210	1.3	154.6	4119	**A503_154.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
11.9	9696	1.8	146.8	6245	**A553_146.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
12.1	9514	2.6	144.0	6252	**A603_144.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
12.4	9288	1.4	140.6	4119	**A503_140.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
13.1	8803	2.8	133.3	6252	**A603_133.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	372...375
13.1	8767	2.0	132.7	6245	**A553_132.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
13.4	8564	1.6	129.7	4119	**A503_129.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
14.0	8182	2.2	123.9	6245	**A553_123.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
14.8	7790	1.7	118.0	4119	**A503_118.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
15.0	7652	0.9	115.9	3092	**A413_115.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
15.9	7227	1.8	109.4	4119	**A503_109.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
17.2	6696	2.6	101.4	6245	**A553_101.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	362...365
17.5	6574	2.0	99.5	4119	**A503_99.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
18.8	6127	1.1	92.8	3092	**A413_92.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
19.4	5914	2.2	89.5	4119	**A503_89.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
21.1	5631	0.9	82.5	2280	**A352_82.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
21.4	5380	2.5	81.5	4119	**A503_81.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
22.0	5406	1.3	79.2	3092	**A412_79.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
23.4	5068	1.0	74.3	2321	**A352_74.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
24.4	4865	1.4	71.3	3092	**A412_71.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
24.8	4639	2.9	70.2	4119	**A503_70.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	352...355
26.4	4492	1.2	65.8	2415	**A352_65.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
27.1	4377	1.6	64.2	3092	**A412_64.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
28.8	4118	1.3	60.4	2394	**A352_60.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
29.6	4012	1.7	58.8	3092	**A412_58.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
32	3704	1.4	54.3	2352	**A352_54.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
33	3626	1.9	53.1	3092	**A412_53.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
33	3594	1.0	52.7	1355	**A302_52.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
35	3349	1.6	49.1	2311	**A352_49.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
36	3294	1.1	48.3	1376	**A302_48.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
36	3294	2.1	48.3	3072	**A412_48.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
38	3125	1.7	45.8	2290	**A352_45.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
39	3075	2.2	45.1	3010	**A412_45.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
40	2963	1.2	43.4	1328	**A302_43.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
42	2851	1.9	41.8	2248	**A352_41.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
44	2679	1.4	39.3	1314	**A302_39.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
47	2500	1.4	36.6	1304	**A302_36.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
48	2499	2.1	36.6	2186	**A352_36.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
48	2450	2.6	35.9	2845	**A412_35.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	342...345
49	2417	0.9	35.4	820	**A202_35.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
52	2281	1.5	33.4	1289	**A302_33.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
52	2263	2.3	33.2	2144	**A352_33.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
56	2136	1.0	31.3	791	**A202_31.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
59	1999	1.7	29.3	1264	**A302_29.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
60	1993	1.1	29.2	787	**A202_29.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
61	1940	2.7	28.4	2069	**A352_28.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
66	1810	1.9	26.5	1244	**A302_26.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
66	1806	1.2	26.5	780	**A202_26.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
68	1751	3.0	25.7	2021	**A352_25.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	332...335
75	1577	1.3	23.1	774	**A202_23.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315

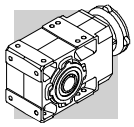


2 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
76	1552	2.2	22.8	1209	**A302_22.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
81	1457	0.9	21.4	665	**A102_21.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
82	1448	1.4	21.2	768	**A202_21.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
85	1401	2.4	20.5	1186	**A302_20.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
94	1267	1.0	18.6	640	**A102_18.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
96	1235	1.7	18.1	754	**A202_18.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
97	1227	2.7	18.0	1153	**A302_18.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
106	1122	1.1	16.4	756	**A102_16.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
106	1115	2.8	16.3	1128	**A302_16.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	322...325
108	1103	1.9	16.2	741	**A202_16.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
124	960	2.1	14.1	727	**A202_14.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
125	950	1.3	13.9	628	**A102_13.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
141	840	1.4	12.3	618	**A102_12.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
145	816	2.1	12.0	704	**A202_12.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
165	720	1.7	10.6	608	**A102_10.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
168	705	2.6	10.3	686	**A202_10.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
181	656	1.7	9.6	597	**A102_9.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
186	640	2.7	9.4	669	**A202_9.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	312...315
204	581	2.0	8.5	695	**A102_8.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
241	492	2.3	7.2	567	**A102_7.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305
275	432	2.6	6.3	654	**A102_6.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	302...305

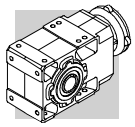
3 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
1.3	125160	1.0	1324.0	15664	**A904_1324**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
1.4	115533	1.1	1222.2	15664	**A904_1222**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
1.6	104984	1.2	1110.6	15664	**A904_1111**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
1.7	96908	1.3	1025.2	15664	**A904_1025**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
1.9	88592	1.4	937.2	15664	**A904_937.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
2.0	81777	1.5	865.1	15664	**A904_865.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
2.1	78415	0.9	829.5	13561	**A804_829.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
2.3	72496	1.7	766.9	15664	**A904_766.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
2.3	72040	1.0	762.1	13561	**A804_762.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
2.5	66920	1.9	707.9	15664	**A904_707.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
2.5	66498	1.1	703.5	13561	**A804_703.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
2.9	57394	1.2	607.2	13561	**A804_607.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
2.9	56866	2.2	601.6	15664	**A904_601.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
3.1	52979	1.3	560.5	13561	**A804_560.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
3.1	52492	2.4	555.3	15664	**A904_555.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
3.4	48721	0.9	515.4	10420	**A704_515.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
3.6	45997	2.7	486.6	15664	**A904_486.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
3.6	45272	1.6	478.9	13561	**A804_478.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
3.7	44974	1.0	475.8	10420	**A704_475.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
3.9	42459	2.9	449.2	15664	**A904_449.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	398...401
3.9	41790	1.7	442.1	13561	**A804_442.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
4.4	37828	1.2	400.2	10420	**A704_400.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
4.6	36249	2.0	383.5	13561	**A804_383.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
4.7	34918	1.3	369.4	10420	**A704_369.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
4.9	33461	2.1	354.0	13561	**A804_354.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
5.5	29905	1.5	316.4	10420	**A704_316.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
5.8	28396	2.5	300.4	13561	**A804_300.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393



3 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IE2	IE3	NEMA	
6.0	27604	1.6	292.0	10420	**A704_292.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
6.1	27065	0.9	286.3	6252	**A604_286.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
6.3	26212	2.7	277.3	13561	**A804_277.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	390...393
6.6	24983	1.0	264.3	6252	**A604_264.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
7.3	22556	2.0	238.6	10420	**A704_238.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
7.7	21376	1.2	226.1	6252	**A604_226.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
7.9	20821	2.1	220.3	10420	**A704_220.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
8.4	19731	1.3	208.7	6252	**A604_208.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
9.0	18770	0.9	194.2	6245	**A553_194.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
9.4	17954	1.4	185.8	6252	**A603_185.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
9.5	17384	2.5	183.9	10420	**A704_183.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
10.0	16917	1.0	175.0	6245	**A553_175.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
10.2	16573	1.5	171.5	6252	**A603_171.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
10.3	16047	2.8	169.8	10420	**A704_169.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
10.9	15507	1.1	160.4	6245	**A553_160.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
11.2	15083	1.6	156.0	6252	**A603_156.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
11.4	14854	2.2	153.7	10420	**A703_153.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	382...385
11.9	14190	1.2	146.8	6245	**A553_146.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
12.1	13922	1.8	144.0	6252	**A603_144.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
12.4	13591	1.0	140.6	3830	**A503_140.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
13.1	12882	1.9	133.3	6252	**A603_133.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
13.1	12829	1.4	132.7	6245	**A553_132.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
13.5	12533	1.1	129.7	4057	**A503_129.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
14.1	11974	1.5	123.9	6245	**A553_123.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
14.2	11891	2.1	123.0	6252	**A603_123.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
14.8	11400	1.2	118.0	4119	**A503_118.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
15.9	10576	1.3	109.4	4119	**A503_109.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
16.2	10419	2.4	107.8	6252	**A603_107.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
17.2	9799	1.8	101.4	6245	**A553_101.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
17.5	9620	1.4	99.5	4119	**A503_99.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
17.5	9618	2.6	99.5	6252	**A603_99.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
19.5	8655	1.5	89.5	4077	**A503_89.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
20.2	8347	3.0	86.4	6252	**A603_86.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	372...375
21.4	7873	1.7	81.5	4036	**A503_81.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
21.9	7686	2.3	79.5	6245	**A553_79.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
24.5	7120	1.0	71.3	2865	**A412_71.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
24.8	6789	2.0	70.2	3974	**A503_70.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
27.1	6217	2.8	64.3	6245	**A553_64.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	362...365
27.2	6405	1.1	64.2	2989	**A412_64.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
27.3	6175	2.1	63.9	3913	**A503_63.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
29.7	5872	1.2	58.8	2969	**A412_58.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
31	5491	2.4	56.8	3830	**A503_56.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
32	5420	1.0	54.3	2134	**A352_54.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
33	5306	1.3	53.1	2907	**A412_53.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
34	4995	2.7	51.7	3768	**A503_51.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
36	4900	1.1	49.1	2061	**A352_49.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
36	4821	1.4	48.3	2865	**A412_48.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
38	4574	1.2	45.8	2048	**A352_45.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
39	4499	1.5	45.1	2824	**A412_45.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
39	4350	3.0	45.0	3686	**A503_45.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	352...355
42	4172	1.3	41.8	2030	**A352_41.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
44	3920	0.9	39.3	1153	**A302_39.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
48	3659	1.0	36.6	1153	**A302_36.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
48	3657	1.5	36.6	1998	**A352_36.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
49	3585	1.8	35.9	2701	**A412_35.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
52	3338	1.0	33.4	1040	**A302_33.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325

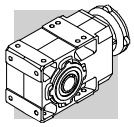


3 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
53	3311	1.6	33.2	1969	**A352_33.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
60	2925	1.1	29.3	1108	**A302_29.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
61	2839	1.9	28.4	1921	**A352_28.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
62	2828	2.1	28.3	2556	**A412_28.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
66	2649	1.3	26.5	1102	**A302_26.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
68	2563	2.0	25.7	1888	**A352_25.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
77	2271	1.5	22.8	1089	**A302_22.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
77	2264	2.5	22.7	2412	**A412_22.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
78	2245	2.2	22.5	1840	**A352_22.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
82	2119	1.0	21.2	663	**A202_21.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
85	2051	1.6	20.5	1077	**A302_20.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
85	2040	2.4	20.4	1803	**A352_20.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
96	1808	1.1	18.1	647	**A202_18.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
97	1796	1.8	18.0	1058	**A302_18.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
98	1774	2.9	17.8	2268	**A412_17.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	342...345
103	1693	2.9	17.0	1732	**A352_17.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
107	1632	1.9	16.3	1042	**A302_16.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
108	1614	1.3	16.2	647	**A202_16.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
124	1405	1.4	14.1	642	**A202_14.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
129	1354	2.2	13.6	1009	**A302_13.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
142	1229	0.9	12.3	528	**A102_12.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	302...305
146	1195	1.4	12.0	632	**A202_12.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
148	1176	2.1	11.8	978	**A302_11.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
148	1176	2.8	11.8	1605	**A352_11.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	332...335
165	1054	1.2	10.6	528	**A102_10.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	302...305
167	1044	2.7	10.5	960	**A302_10.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
169	1032	1.8	10.3	624	**A202_10.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
181	960	1.2	9.6	524	**A102_9.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	302...305
186	936	1.8	9.4	614	**A202_9.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
187	930	2.6	9.3	933	**A302_9.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
205	850	1.3	8.5	620	**A102_8.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	302...305
206	845	2.9	8.5	912	**A302_8.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	322...325
208	836	2.1	8.4	603	**A202_8.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
239	728	2.4	7.3	589	**A202_7.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
242	720	1.6	7.2	512	**A102_7.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	302...305
267	653	2.6	6.5	579	**A202_6.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	312...315
275	632	1.8	6.3	600	**A102_6.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	302...305
319	546	2.1	5.5	494	**A102_5.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	302...305

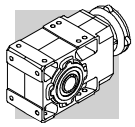
4 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
1.7	133249	0.9	1025.2	15664	**A904_1025**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
1.9	121814	1.0	937.2	15664	**A904_937.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
2.0	112443	1.1	865.1	15664	**A904_865.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
2.3	99682	1.2	766.9	15664	**A904_766.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
2.5	92014	1.3	707.9	15664	**A904_707.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
2.9	78191	1.6	601.6	15664	**A904_601.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
3.1	72847	1.0	560.5	13561	**A804_560.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
3.1	72177	1.7	555.3	15664	**A904_555.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
3.6	63246	2.0	486.6	15664	**A904_486.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
3.6	62249	1.1	478.9	13561	**A804_478.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393



4 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
3.9	58381	2.1	449.2	15664	**A904_449.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
3.9	57461	1.2	442.1	13561	**A804_442.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
4.5	50100	2.5	385.4	15664	**A904_385.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
4.5	49842	1.4	383.5	13561	**A804_383.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
4.7	48012	0.9	369.4	10420	**A704_369.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
4.9	46246	2.7	355.8	15664	**A904_355.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	398...401
4.9	46008	1.5	354.0	13561	**A804_354.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
5.5	41119	1.1	316.4	10420	**A704_316.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
5.8	39044	1.8	300.4	13561	**A804_300.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
5.9	37956	1.2	292.0	10420	**A704_292.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
6.3	36041	2.0	277.3	13561	**A804_277.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
7.3	31014	1.4	238.6	10420	**A704_238.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
7.5	30236	2.3	232.6	13561	**A804_232.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
7.9	28628	1.5	220.3	10420	**A704_220.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
8.1	27911	2.5	214.7	13561	**A804_214.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	390...393
8.3	27130	0.9	208.7	6252	**A604_208.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
9.3	24687	1.0	185.8	6252	**A603_185.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
9.4	23903	1.9	183.9	10420	**A704_183.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
10.1	22788	1.1	171.5	6252	**A603_171.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
10.2	22065	2.0	169.8	10420	**A704_169.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
11.1	20738	1.2	156.0	6252	**A603_156.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
11.3	20424	1.6	153.7	10420	**A703_153.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
11.8	19511	0.9	146.8	6245	**A553_146.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	362...365
12.0	19143	1.3	144.0	6252	**A603_144.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
12.2	18853	2.3	141.9	10420	**A703_141.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
13.0	17713	1.4	133.3	6252	**A603_133.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
13.1	17640	1.0	132.7	6245	**A553_132.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	362...365
13.3	17366	2.5	130.7	10420	**A703_130.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
14.0	16464	1.1	123.9	6245	**A553_123.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	362...365
14.1	16350	1.5	123.0	6252	**A603_123.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
14.4	16030	2.8	120.6	10420	**A703_120.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	382...385
15.9	14542	0.9	109.4	3707	**A503_109.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
16.1	14327	1.7	107.8	6252	**A603_107.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
17.1	13473	1.3	101.4	6245	**A553_101.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	362...365
17.4	13228	1.0	99.5	3542	**A503_99.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
17.4	13225	1.9	99.5	6252	**A603_99.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
19.4	11900	1.1	89.5	3521	**A503_89.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
20.1	11478	2.2	86.4	6252	**A603_86.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
21.3	10825	1.2	81.5	3542	**A503_81.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
21.8	10595	2.3	79.7	6252	**A603_79.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
21.8	10568	1.7	79.5	6245	**A553_79.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	362...365
24.6	9357	2.6	70.4	6252	**A603_70.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
24.7	9335	1.4	70.2	3542	**A503_70.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
26.7	8637	2.9	65.0	6252	**A603_65.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	372...375
27.0	8548	2.1	64.3	6245	**A553_64.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	362...365
27.2	8491	1.6	63.9	3521	**A503_63.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
31	7550	1.8	56.8	3501	**A503_56.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
33	7296	1.0	53.1	2577	**A412_53.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
34	6868	1.9	51.7	3460	**A503_51.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
34	6771	2.6	51.0	6245	**A553_51.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	362...365
36	6629	1.1	48.3	2618	**A412_48.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
38	6187	1.1	45.1	2598	**A412_45.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
39	5981	2.2	45.0	3398	**A503_45.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
42	5736	0.9	41.8	1811	**A352_41.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
42	5440	2.3	40.9	3357	**A503_40.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
47	5028	1.1	36.6	1780	**A352_36.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335

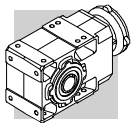


4 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
48	4929	1.3	35.9	2515	**A412_35.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
49	4731	2.6	35.6	3295	**A503_35.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
52	4553	1.2	33.2	1774	**A352_33.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
54	4303	2.9	32.4	3233	**A503_32.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	352...355
61	3904	1.4	28.4	1753	**A352_28.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
61	3888	1.5	28.3	2412	**A412_28.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
65	3642	0.9	26.5	958	**A302_26.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
68	3524	1.5	25.7	1734	**A352_25.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
76	3123	1.1	22.8	949	**A302_22.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
77	3113	1.8	22.7	2309	**A412_22.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
77	3086	1.6	22.5	1705	**A352_22.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
84	2819	1.2	20.5	951	**A302_20.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
85	2804	1.8	20.4	1682	**A352_20.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
96	2469	1.3	18.0	947	**A302_18.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
98	2439	2.1	17.8	2185	**A412_17.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
102	2328	2.1	17.0	1630	**A352_17.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
106	2244	1.4	16.3	943	**A302_16.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
107	2220	0.9	16.2	558	**A202_16.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
108	2210	2.3	16.1	2144	**A412_16.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
112	2125	2.3	15.5	1603	**A352_15.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
123	1932	1.0	14.1	546	**A202_14.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
126	1889	2.5	13.8	2059	**A412_13.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
128	1862	1.6	13.6	927	**A302_13.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
133	1794	2.7	13.1	1551	**A352_13.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
145	1643	1.1	12.0	550	**A202_12.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
147	1617	1.5	11.8	906	**A302_11.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
147	1617	2.0	11.8	1543	**A352_11.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
148	1612	2.8	11.7	1975	**A412_11.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	342...345
163	1460	2.2	10.6	1505	**A352_10.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
166	1435	1.9	10.5	896	**A302_10.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
168	1419	1.3	10.3	554	**A202_10.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
185	1287	1.3	9.4	550	**A202_9.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
186	1278	1.9	9.3	873	**A302_9.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
186	1278	2.6	9.3	1457	**A352_9.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
204	1169	1.0	8.5	508	**A102_8.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	302...305
205	1162	2.1	8.5	859	**A302_8.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
205	1162	2.7	8.5	1424	**A352_8.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	332...335
207	1149	1.5	8.4	546	**A202_8.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
238	1000	1.7	7.3	540	**A202_7.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
241	990	1.2	7.2	451	**A102_7.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	302...305
247	964	2.6	7.0	830	**A302_7.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
265	898	1.9	6.5	533	**A202_6.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315
271	880	2.8	6.4	813	**A302_6.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	322...325
274	870	1.3	6.3	537	**A102_6.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	302...305
317	750	1.5	5.5	447	**A102_5.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	302...305
324	735	2.3	5.4	519	**A202_5.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	312...315

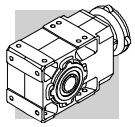
5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
2.0	136295	0.9	865.1	15664	**A904_865.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
2.3	120827	1.0	766.9	15664	**A904_766.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
2.5	111533	1.1	707.9	15664	**A904_707.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401



5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
2.9	94777	1.3	601.6	15664	**A904_601.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
3.1	87487	1.4	555.3	15664	**A904_555.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
3.6	76662	1.6	486.6	15664	**A904_486.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
3.6	75454	0.9	478.9	13561	**A804_478.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
3.9	70765	1.8	449.2	15664	**A904_449.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
3.9	69650	1.0	442.1	13561	**A804_442.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
4.5	60727	2.0	385.4	15664	**A904_385.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
4.5	60415	1.2	383.5	13561	**A804_383.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
4.9	56056	2.2	355.8	15664	**A904_355.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
4.9	55768	1.3	354.0	13561	**A804_354.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
5.7	48035	2.6	304.9	15664	**A904_304.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
5.8	47327	1.5	300.4	13561	**A804_300.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
6.0	46007	1.0	292.0	10420	**A704_292.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
6.2	44340	2.8	281.4	15664	**A904_281.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	398...401
6.3	43686	1.6	277.3	13561	**A804_277.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
7.3	37593	1.2	238.6	10420	**A704_238.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
7.5	36650	1.9	232.6	13561	**A804_232.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
7.9	34701	1.3	220.3	10420	**A704_220.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
8.1	33831	2.1	214.7	13561	**A804_214.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
9.5	28974	1.5	183.9	10420	**A704_183.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
10.2	26988	2.6	171.3	13561	**A804_171.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
10.3	26745	1.7	169.8	10420	**A704_169.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
11.1	25259	2.8	156.8	13561	**A803_156.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	390...393
11.2	25138	1.0	156.0	6252	**A603_156.0**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
11.3	24757	1.3	153.7	10420	**A703_153.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
12.1	23204	1.1	144.0	6252	**A603_144.0**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
12.3	22852	1.9	141.9	10420	**A703_141.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
13.1	21470	1.2	133.3	6252	**A603_133.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
13.3	21049	2.1	130.7	10420	**A703_130.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
14.1	19819	1.3	123.0	6252	**A603_123.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
14.4	19430	2.3	120.6	10420	**A703_120.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
16.1	17366	1.4	107.8	6252	**A603_107.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
16.7	16791	2.6	104.2	10420	**A703_104.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
17.2	16331	1.1	101.4	6245	**A553_101.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	362...365
17.5	16030	1.5	99.5	6252	**A603_99.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
18.1	15500	2.8	96.2	10420	**A703_96.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	382...385
19.4	14425	0.9	89.5	3398	**A503_89.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
20.1	13912	1.8	86.4	6252	**A603_86.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
21.4	13121	1.0	81.5	3305	**A503_81.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
21.8	12842	1.9	79.7	6252	**A603_79.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
21.9	12810	1.4	79.5	6245	**A553_79.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	362...365
24.7	11342	2.2	70.4	6252	**A603_70.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
24.8	11315	1.2	70.2	3184	**A503_70.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
26.8	10469	2.4	65.0	6252	**A603_65.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
27.1	10362	1.7	64.3	6245	**A553_64.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	362...365
27.2	10292	1.3	63.9	3027	**A503_63.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
31	9152	1.5	56.8	3048	**A503_56.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
31	8957	2.8	55.6	6252	**A603_55.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
34	8325	1.6	51.7	3068	**A503_51.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
34	8268	3.0	51.3	6252	**A603_51.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	372...375
34	8208	2.2	51.0	6245	**A553_51.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	362...365
39	7499	0.9	45.1	2391	**A412_45.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
39	7250	1.8	45.0	3068	**A503_45.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
43	6594	1.9	40.9	3048	**A503_40.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
43	6492	2.5	40.3	6245	**A553_40.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	362...365
48	5975	1.1	35.9	2309	**A412_35.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345

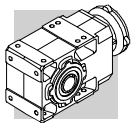


5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
49	5735	2.1	35.6	3027	**A503_35.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
52	5518	1.0	33.2	1674	**A352_33.2**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
54	5216	2.4	32.4	2986	**A503_32.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
61	4732	1.1	28.4	1622	**A352_28.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
61	4713	1.3	28.3	2247	**A412_28.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
66	4259	2.9	26.4	2904	**A503_26.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
68	4272	1.2	25.7	1545	**A352_25.7**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
77	3773	1.5	22.7	2165	**A412_22.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
77	3741	1.3	22.5	1540	**A352_22.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
83	3481	2.8	20.9	3109	**A502_20.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	352...355
85	3418	1.0	20.5	867	**A302_20.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
85	3399	1.4	20.4	1532	**A352_20.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
97	2993	1.1	18.0	809	**A302_18.0**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
98	2956	1.7	17.8	2082	**A412_17.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
103	2822	1.7	17.0	1507	**A352_17.0**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
106	2719	1.2	16.3	818	**A302_16.3**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
108	2678	1.9	16.1	2049	**A412_16.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
112	2575	1.9	15.5	1491	**A352_15.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
126	2289	2.1	13.8	1981	**A412_13.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
128	2257	1.3	13.6	824	**A302_13.6**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
133	2175	2.3	13.1	1457	**A352_13.1**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
148	1960	1.3	11.8	815	**A302_11.8**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
148	1960	1.7	11.8	1468	**A352_11.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
148	1954	2.3	11.7	1909	**A412_11.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
164	1769	1.9	10.6	1438	**A352_10.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
166	1740	1.6	10.5	818	**A302_10.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
168	1720	1.1	10.3	432	**A202_10.3**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	312...315
172	1686	2.6	10.1	1847	**A412_10.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
186	1560	1.1	9.4	484	**A202_9.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	312...315
187	1549	1.6	9.3	803	**A302_9.3**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
187	1549	2.1	9.3	1401	**A352_9.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
189	1530	2.9	9.2	1802	**A412_9.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	342...345
206	1408	1.7	8.5	795	**A302_8.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
206	1408	2.2	8.5	1372	**A352_8.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
208	1393	1.2	8.4	474	**A202_8.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	312...315
239	1213	1.4	7.3	476	**A202_7.3**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	312...315
241	1200	1.0	7.2	467	**A102_7.2**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	302...305
248	1169	2.1	7.0	776	**A302_7.0**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
248	1169	2.6	7.0	1314	**A352_7.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
266	1088	1.6	6.5	476	**A202_6.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	312...315
271	1067	2.3	6.4	766	**A302_6.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
271	1067	2.7	6.4	1287	**A352_6.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	332...335
275	1054	1.1	6.3	404	**A102_6.3**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	302...305
318	909	1.3	5.5	388	**A102_5.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	302...305
321	901	2.7	5.4	743	**A302_5.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	322...325
325	890	1.9	5.4	474	**A202_5.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	312...315

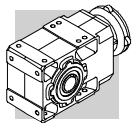
7.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
3.2	131230	0.9	555.3	15664	**A904_555.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
3.6	114993	1.1	486.6	15664	**A904_486.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
3.9	106147	1.2	449.2	15664	**A904_449.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401



7.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IE2	IE3	NEMA	
4.6	91090	1.4	385.4	15664	**A904_385.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
4.9	84083	1.5	355.8	15664	**A904_355.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
5.8	72053	1.7	304.9	15664	**A904_304.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
5.9	70990	1.0	300.4	13561	**A804_300.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
6.3	66510	1.9	281.4	15664	**A904_281.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
6.3	65529	1.1	277.3	13561	**A804_277.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
7.6	54975	1.3	232.6	13561	**A804_232.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
7.8	53511	2.3	226.4	15664	**A904_226.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
8.2	50747	1.4	214.7	13561	**A804_214.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
8.4	49394	2.5	209.0	15664	**A904_209.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
9.6	43460	1.0	183.9	10420	**A704_183.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
9.8	42532	2.9	180.0	15664	**A904_180.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	398...401
10.3	40482	1.7	171.3	13561	**A804_171.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
10.4	40117	1.1	169.8	10420	**A704_169.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
11.2	37888	1.9	156.8	13561	**A803_156.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
12.2	34974	2.0	144.7	13561	**A803_144.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
12.4	34278	1.3	141.9	10420	**A703_141.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
13.5	31574	1.4	130.7	10420	**A703_130.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
14.0	30354	2.3	125.6	13561	**A803_125.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
14.6	29145	1.5	120.6	10420	**A703_120.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
15.2	28019	2.5	116.0	13561	**A803_116.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
16.3	26048	1.0	107.8	6252	**A603_107.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
16.9	25187	1.8	104.2	10420	**A703_104.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
16.9	25138	2.8	104.0	13561	**A803_104.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
17.7	24045	1.0	99.5	6252	**A603_99.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
18.3	23250	1.8	96.2	10420	**A703_96.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
18.3	23204	2.9	96.0	13561	**A803_96.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	390...393
20.4	20868	1.2	86.4	6252	**A603_86.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
20.5	20766	2.1	85.9	10420	**A703_85.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
22.1	19263	1.3	79.7	6252	**A603_79.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
22.1	19215	0.9	79.5	6245	**A553_79.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	362...365
22.2	19168	2.1	79.3	10420	**A703_79.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
24.3	17523	2.4	72.5	10420	**A703_72.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
25.0	17012	1.5	70.4	6252	**A603_70.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
26.3	16175	2.5	66.9	10420	**A703_66.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
27.1	15704	1.6	65.0	6252	**A603_65.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
27.4	15542	1.1	64.3	6245	**A553_64.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	362...365
31	13935	2.9	57.7	10420	**A703_57.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	382...385
31	13728	1.0	56.8	2698	**A503_56.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
32	13436	1.8	55.6	6252	**A603_55.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
34	12487	1.1	51.7	2677	**A503_51.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
34	12402	2.0	51.3	6252	**A603_51.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
35	12312	1.4	51.0	6245	**A553_51.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	362...365
39	10919	2.3	45.2	6252	**A603_45.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
39	10875	1.2	45.0	2553	**A503_45.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
42	10079	2.5	41.7	6252	**A603_41.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
43	9892	1.3	40.9	2595	**A503_40.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
44	9739	1.7	40.3	6245	**A553_40.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	362...365
49	8602	1.4	35.6	2615	**A503_35.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
51	8288	3.0	34.3	6252	**A603_34.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	372...375
54	7824	1.6	32.4	2615	**A503_32.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
59	7232	2.3	29.9	6245	**A553_29.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	362...365
67	6388	1.9	26.4	2595	**A503_26.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
73	5811	2.1	24.0	2574	**A503_24.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
74	5749	2.8	23.8	6204	**A553_23.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	362...365
78	5660	1.0	22.7	1915	**A412_22.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
84	5221	1.9	20.9	2965	**A502_20.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355

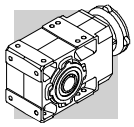


7.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
99	4434	1.2	17.8	1913	**A412_17.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
106	4136	2.4	16.6	2801	**A502_16.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
109	4017	1.2	16.1	1888	**A412_16.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
128	3434	1.4	13.8	1843	**A412_13.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
134	3272	2.8	13.1	2636	**A502_13.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	352...355
149	2940	1.1	11.8	1343	**A352_11.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	332...335
150	2931	1.5	11.7	1787	**A412_11.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
166	2654	1.2	10.6	1324	**A352_10.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	332...335
174	2528	1.7	10.1	1740	**A412_10.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
189	2324	1.4	9.3	1299	**A352_9.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	332...335
191	2296	2.0	9.2	1701	**A412_9.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
208	2112	1.5	8.5	1278	**A352_8.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	332...335
211	2080	2.2	8.3	1666	**A412_8.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
247	1778	2.5	7.1	1606	**A412_7.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	342...345
251	1753	1.7	7.0	1234	**A352_7.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	332...335
275	1600	1.8	6.4	1212	**A352_6.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	332...335
325	1351	2.1	5.4	1168	**A352_5.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	332...335

10 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
4.6	124490	1.0	385.4	15664	**A904_385.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
4.9	114914	1.1	355.8	15664	**A904_355.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
5.8	98472	1.3	304.9	15664	**A904_304.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
6.3	90897	1.4	281.4	15664	**A904_281.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
7.6	75133	0.9	232.6	13561	**A804_232.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
7.8	73131	1.7	226.4	15664	**A904_226.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
8.2	69354	1.0	214.7	13561	**A804_214.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
8.4	67506	1.8	209.0	15664	**A904_209.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
9.8	58127	2.1	180.0	15664	**A904_180.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
10.3	55325	1.3	171.3	13561	**A804_171.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
10.6	53655	2.3	166.1	15664	**A904_166.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
11.2	51781	1.4	156.8	13561	**A803_156.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
11.7	49869	2.3	151.0	15664	**A903_151.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
12.2	47798	1.5	144.7	13561	**A803_144.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
12.4	46847	0.9	141.9	10107	**A703_141.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
12.6	46033	2.3	139.4	15664	**A903_139.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
13.5	43151	1.0	130.7	10107	**A703_130.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
13.9	41823	2.6	126.6	15664	**A903_126.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	398...401
14.0	41484	1.7	125.6	13561	**A803_125.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
14.6	39831	1.1	120.6	10420	**A703_120.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
15.2	38293	1.8	116.0	13561	**A803_116.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
16.9	34423	1.3	104.2	10420	**A703_104.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
16.9	34355	2.1	104.0	13561	**A803_104.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
18.3	31775	1.4	96.2	10420	**A703_96.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
18.3	31712	2.1	96.0	13561	**A803_96.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
19.7	29450	2.3	89.2	13561	**A803_89.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
20.5	28380	1.5	85.9	10420	**A703_85.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
21.4	27185	2.4	82.3	13561	**A803_82.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
22.1	26326	0.9	79.7	6252	**A603_79.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
22.2	26197	1.6	79.3	10420	**A703_79.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
24.3	23949	1.8	72.5	10420	**A703_72.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
24.3	23899	2.7	72.4	13561	**A803_72.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
25.0	23250	1.1	70.4	6252	**A603_70.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375

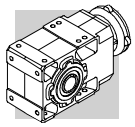


10 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
26.3	22106	1.9	66.9	10420	**A703_66.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
26.3	22061	3.0	66.8	13561	**A803_66.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	390...393
27.1	21462	1.2	65.0	6252	**A603_65.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
31	19044	2.2	57.7	10420	**A703_57.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
32	18363	1.3	55.6	6252	**A603_55.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
33	17579	2.3	53.2	10420	**A703_53.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
34	16950	1.5	51.3	6252	**A603_51.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
35	16826	1.1	51.0	5912	**A553_51.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	362...365
36	16182	2.5	49.0	10420	**A703_49.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
39	14937	2.6	45.2	10420	**A703_45.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	382...385
39	14923	1.7	45.2	6252	**A603_45.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
42	13775	1.8	41.7	6252	**A603_41.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
43	13519	0.9	40.9	2224	**A503_40.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
44	13309	1.2	40.3	6245	**A553_40.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	362...365
49	11756	1.0	35.6	2080	**A503_35.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
51	11327	2.2	34.3	6252	**A603_34.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
54	10693	1.2	32.4	2121	**A503_32.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
56	10456	2.4	31.7	6252	**A603_31.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
59	9884	1.7	29.9	6245	**A553_29.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	362...365
63	9198	2.7	27.9	6252	**A603_27.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
67	8731	1.4	26.4	2203	**A503_26.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
68	8490	2.9	25.7	6252	**A603_25.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
73	7941	1.5	24.0	2224	**A503_24.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
74	7856	2.0	23.8	5995	**A553_23.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	362...365
84	7136	1.4	20.9	2821	**A502_20.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
85	7025	2.3	20.6	6252	**A602_20.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
92	6560	2.3	19.2	5995	**A552_19.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	362...365
105	5709	2.9	16.7	6252	**A602_16.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	372...375
106	5652	1.7	16.6	2677	**A502_16.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
109	5490	0.9	16.1	1688	**A412_16.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345
112	5349	2.8	15.7	5683	**A552_15.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	362...365
128	4693	1.0	13.8	1676	**A412_13.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345
134	4471	2.0	13.1	2533	**A502_13.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
150	4005	1.1	11.7	1643	**A412_11.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345
166	3627	0.9	10.6	1195	**A352_10.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	332...335
174	3456	1.3	10.1	1618	**A412_10.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345
181	3320	2.5	9.7	2368	**A502_9.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
189	3176	1.0	9.3	1176	**A352_9.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	332...335
191	3137	1.4	9.2	1589	**A412_9.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345
208	2886	1.1	8.5	1166	**A352_8.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	332...335
211	2843	1.6	8.3	1565	**A412_8.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345
227	2639	3.0	7.7	2224	**A502_7.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	352...355
247	2430	1.9	7.1	1519	**A412_7.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345
251	2396	1.3	7.0	1143	**A352_7.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	332...335
275	2187	1.3	6.4	1124	**A352_6.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	332...335
325	1847	1.5	5.4	1097	**A352_5.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	332...335
336	1789	2.5	5.2	1427	**A412_5.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	342...345

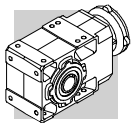
12.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
5.8	120088	1.0	304.9	15664	**A904_304.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
6.3	110851	1.1	281.4	15664	**A904_281.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
7.8	89184	1.4	226.4	15664	**A904_226.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401



12.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
8.4	82324	1.5	209.0	15664	**A904_209.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
9.8	70886	1.7	180.0	15664	**A904_180.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
10.3	67470	1.0	171.3	13561	**A804_171.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
10.6	65433	1.9	166.1	15664	**A904_166.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
11.2	63147	1.1	156.8	13561	**A803_156.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
11.7	60815	1.9	151.0	15664	**A903_151.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
12.2	58290	1.2	144.7	13561	**A803_144.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
12.6	56137	1.9	139.4	15664	**A903_139.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
13.9	51004	2.1	126.6	15664	**A903_126.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
14.0	50590	1.4	125.6	13561	**A803_125.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
14.6	48575	0.9	120.6	10420	**A703_120.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
15.1	47080	2.6	116.9	15664	**A903_116.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
15.2	46698	1.5	116.0	13561	**A803_116.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
16.5	43019	2.9	106.8	15664	**A903_106.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	398...401
16.9	41979	1.1	104.2	10420	**A703_104.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
16.9	41896	1.7	104.0	13561	**A803_104.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
18.3	38750	1.1	96.2	10420	**A703_96.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
18.3	38673	1.7	96.0	13561	**A803_96.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
19.7	35915	1.9	89.2	13561	**A803_89.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
20.5	34610	1.3	85.9	10420	**A703_85.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
21.4	33152	2.0	82.3	13561	**A803_82.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
22.2	31947	1.3	79.3	10420	**A703_79.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
24.3	29206	1.4	72.5	10420	**A703_72.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
24.3	29145	2.2	72.4	13561	**A803_72.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
26.3	26959	1.5	66.9	10420	**A703_66.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
26.3	26903	2.4	66.8	13310	**A803_66.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
27.1	26173	0.9	65.0	6252	**A603_65.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
29.4	24075	2.7	59.8	13018	**A803_59.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
31	23225	1.8	57.7	10420	**A703_57.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
32	22393	1.1	55.6	6252	**A603_55.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
32	22223	2.9	55.2	12789	**A803_55.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	390...393
33	21438	1.9	53.2	10420	**A703_53.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
34	20671	1.2	51.3	6252	**A603_51.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
36	19734	2.1	49.0	10420	**A703_49.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
39	18216	2.2	45.2	10420	**A703_45.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
39	18199	1.4	45.2	6252	**A603_45.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
42	16799	1.5	41.7	6252	**A603_41.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
44	16231	1.0	40.3	5933	**A553_40.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	362...365
46	15458	2.6	38.4	10420	**A703_38.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
50	14269	2.6	35.4	10420	**A703_35.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	382...385
51	13814	1.8	34.3	6252	**A603_34.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
54	13041	0.9	32.4	1956	**A503_32.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
56	12751	1.9	31.7	6252	**A603_31.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
59	12054	1.4	29.9	6058	**A553_29.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	362...365
63	11217	2.2	27.9	6252	**A603_27.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
67	10647	1.2	26.4	1880	**A503_26.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
68	10354	2.4	25.7	6252	**A603_25.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
73	9685	1.3	24.0	1930	**A503_24.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
74	9581	1.7	23.8	5808	**A553_23.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	362...365
84	8702	1.1	20.9	2677	**A502_20.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
85	8567	1.9	20.6	6252	**A602_20.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
92	8000	1.8	19.2	5912	**A552_19.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	362...365
105	6962	2.4	16.7	6252	**A602_16.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	372...375
106	6893	1.4	16.6	2574	**A502_16.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
112	6523	2.3	15.7	5621	**A552_15.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	362...365
134	5453	1.7	13.1	2451	**A502_13.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
135	5440	2.7	13.1	5371	**A552_13.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	362...365
135	5437	0.9	13.1	1093	**A352_13.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	332...335
150	4884	0.9	11.7	1513	**A412_11.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	342...345

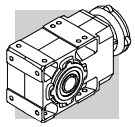


12.5 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
174	4214	1.0	10.1	1513	**A412_10.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	342...345
181	4049	2.0	9.7	2306	**A502_9.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
191	3826	1.2	9.2	1495	**A412_9.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	342...345
211	3467	1.3	8.3	1478	**A412_8.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	342...345
227	3219	2.4	7.7	2183	**A502_7.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	352...355
247	2963	1.5	7.1	1447	**A412_7.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	342...345
251	2922	1.0	7.0	1064	**A352_7.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	332...335
275	2667	1.1	6.4	1055	**A352_6.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	332...335
325	2252	1.2	5.4	1037	**A352_5.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	332...335
336	2182	2.1	5.2	1373	**A412_5.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	342...345

15 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
6.3	133021	0.9	281.4	15664	**A904_281.4**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
7.8	107021	1.2	226.4	15664	**A904_226.4**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
8.4	98789	1.3	209.0	15664	**A904_209.0**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
9.8	85063	1.5	180.0	15664	**A904_180.0**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
10.6	78520	1.6	166.1	15664	**A904_166.1**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
11.3	75777	0.9	156.8	13143	**A803_156.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
11.7	72978	1.5	151.0	15664	**A903_151.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
12.2	69948	1.0	144.7	13143	**A803_144.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
12.7	67365	1.6	139.4	15664	**A903_139.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
13.9	61204	1.8	126.6	15664	**A903_126.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
14.1	60708	1.2	125.6	13561	**A803_125.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
15.1	56496	2.2	116.9	15664	**A903_116.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
15.2	56038	1.3	116.0	13561	**A803_116.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
16.5	51623	2.4	106.8	15664	**A903_106.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
17.0	50275	1.4	104.0	13561	**A803_104.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
17.9	47652	2.6	98.6	15664	**A903_98.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
18.3	46499	0.9	96.2	10420	**A703_96.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
18.4	46408	1.4	96.0	13561	**A803_96.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
19.8	43098	1.6	89.2	13561	**A803_89.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
20.3	42078	2.9	87.1	15664	**A903_87.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	398...401
20.5	41532	1.1	85.9	10420	**A703_85.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
21.4	39783	1.6	82.3	13456	**A803_82.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
22.2	38337	1.1	79.3	10420	**A703_79.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
24.3	35047	1.2	72.5	10420	**A703_72.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
24.4	34974	1.9	72.4	13185	**A803_72.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
26.4	32351	1.3	66.9	10420	**A703_66.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
26.4	32284	2.0	66.8	12976	**A803_66.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
29.5	28890	2.3	59.8	12705	**A803_59.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
31	27870	1.5	57.7	10420	**A703_57.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
32	26872	0.9	55.6	6252	**A603_55.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
32	26668	2.4	55.2	12497	**A803_55.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
33	25726	1.6	53.2	10420	**A703_53.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
34	24805	1.0	51.3	6252	**A603_51.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
36	23680	1.7	49.0	10420	**A703_49.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
37	23286	2.8	48.2	12163	**A803_48.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
39	21859	1.8	45.2	10420	**A703_45.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
39	21838	1.1	45.2	6252	**A603_45.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
40	21494	2.8	44.5	11954	**A803_44.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	390...393
42	20159	1.2	41.7	6252	**A603_41.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375

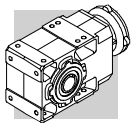


15 hp

n_2	T_2	S	i	R_{n2}						NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
46	18550	2.1	38.4	10420	**A703_38.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
50	17123	2.2	35.4	10420	**A703_35.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
51	16576	1.5	34.3	6252	**A603_34.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
56	15301	1.6	31.7	6252	**A603_31.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
59	14546	2.6	30.1	10295	**A703_30.1**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
59	14465	1.1	29.9	5871	**A553_29.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	362...365
63	13460	1.8	27.9	6252	**A603_27.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
64	13428	2.6	27.8	10107	**A703_27.8**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	382...385
67	12776	1.0	26.4	1730	**A503_26.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	352...355
69	12425	2.0	25.7	6252	**A603_25.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
73	11622	1.1	24.0	1606	**A503_24.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	352...355
74	11497	1.4	23.8	5413	**A553_23.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	362...365
84	10442	0.9	20.9	2698	**A502_20.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	352...355
86	10281	1.6	20.6	6252	**A602_20.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
92	9600	1.5	19.2	5808	**A552_19.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	362...365
105	8355	2.0	16.7	6252	**A602_16.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
107	8272	1.2	16.6	2471	**A502_16.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	352...355
113	7828	1.9	15.7	5537	**A552_15.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	362...365
135	6543	1.4	13.1	2368	**A502_13.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	352...355
135	6528	2.3	13.1	5288	**A552_13.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	362...365
139	6342	2.6	12.7	6252	**A602_12.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	372...375
170	5169	2.9	10.4	4996	**A552_10.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	362...365
181	4859	1.7	9.7	2224	**A502_9.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	352...355
228	3862	2.0	7.7	2121	**A502_7.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	352...355

20 hp

n_2	T_2	S	i	R_{n2}						NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
8.5	133365	0.9	209.0	15664	**A904_209.0**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
9.8	114835	1.1	180.0	15664	**A904_180.0**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
10.7	106002	1.2	166.1	15664	**A904_166.1**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
11.7	98521	1.1	151.0	15664	**A903_151.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
12.7	90942	1.1	139.4	15664	**A903_139.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
14.0	82626	1.3	126.6	15664	**A903_126.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
15.1	76270	1.6	116.9	15664	**A903_116.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
15.3	75651	0.9	116.0	12351	**A803_116.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
16.6	69691	1.8	106.8	15664	**A903_106.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
17.0	67871	1.0	104.0	12476	**A803_104.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
18.0	64330	1.9	98.6	15664	**A903_98.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
18.4	62651	1.1	96.0	12643	**A803_96.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
19.8	58182	1.2	89.2	12601	**A803_89.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
20.3	56805	2.2	87.1	15664	**A903_87.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
21.5	53707	1.2	82.3	12476	**A803_82.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
22.0	52436	2.4	80.4	15664	**A903_80.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
23.8	48592	2.6	74.5	15664	**A903_74.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
24.5	47215	1.4	72.4	12330	**A803_72.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
25.7	44854	2.7	68.8	15664	**A903_68.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	398...401
26.4	43674	0.9	66.9	10253	**A703_66.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
26.5	43583	1.5	66.8	12163	**A803_66.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
29.6	39001	1.7	59.8	11996	**A803_59.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
31	37624	1.1	57.7	10420	**A703_57.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
32	36001	1.8	55.2	11829	**A803_55.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
33	34730	1.2	53.2	10420	**A703_53.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385

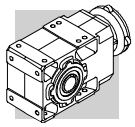


20 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
36	31968	1.3	49.0	10420	**A703_49.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
37	31436	2.1	48.2	11579	**A803_48.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
39	29509	1.3	45.2	10420	**A703_45.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
40	29017	2.1	44.5	11412	**A803_44.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
42	27214	0.9	41.7	6252	**A603_41.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
46	25118	2.5	38.5	10682	**A803_38.5**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
46	25042	1.6	38.4	10399	**A703_38.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
50	23186	2.5	35.5	10640	**A803_35.5**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
50	23116	1.6	35.4	10232	**A703_35.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
52	22378	1.1	34.3	6252	**A603_34.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
56	20657	1.2	31.7	6252	**A603_31.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
58	19948	2.7	30.6	10327	**A803_30.6**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
59	19638	1.9	30.1	9920	**A703_30.1**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
63	18414	2.9	28.2	9910	**A803_28.2**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	390...393
64	18172	1.4	27.9	6252	**A603_27.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
64	18127	1.9	27.8	9732	**A703_27.8**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
69	16774	1.5	25.7	6252	**A603_25.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
74	15521	1.0	23.8	4705	**A553_23.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	362...365
75	15345	2.3	23.5	9399	**A703_23.5**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
83	13899	2.4	21.3	9190	**A703_21.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
86	13879	1.2	20.6	6252	**A602_20.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
90	12830	2.4	19.7	9024	**A703_19.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	382...385
92	12960	1.1	19.2	5579	**A552_19.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	362...365
106	11279	1.5	16.7	6252	**A602_16.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
113	10567	1.4	15.7	5350	**A552_15.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	362...365
135	8833	1.0	13.1	2162	**A502_13.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	352...355
135	8813	1.7	13.1	5142	**A552_13.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	362...365
139	8561	1.9	12.7	6252	**A602_12.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
171	6979	2.1	10.4	4871	**A552_10.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	362...365
172	6952	2.4	10.3	6252	**A602_10.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	372...375
182	6560	1.3	9.7	2080	**A502_9.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	352...355
209	5702	2.6	8.5	4621	**A552_8.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	362...365
229	5214	1.5	7.7	2008	**A502_7.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	352...355

25 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
10.6	130867	0.9	166.1	15664	**A904_166.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
11.7	121631	0.9	151.0	15664	**A903_151.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
12.7	112274	0.9	139.4	15664	**A903_139.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
13.9	102007	1.1	126.6	15664	**A903_126.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
15.1	94161	1.3	116.9	15664	**A903_116.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
16.5	86038	1.4	106.8	15664	**A903_106.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
17.9	79420	1.6	98.6	15664	**A903_98.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
19.8	71830	1.0	89.2	11912	**A803_89.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
20.3	70130	1.8	87.1	15664	**A903_87.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
21.4	66305	1.0	82.3	11516	**A803_82.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
22.0	64735	1.9	80.4	15664	**A903_80.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
23.7	59990	2.1	74.5	15664	**A903_74.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
24.4	58290	1.1	72.4	11599	**A803_72.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
25.7	55375	2.2	68.8	15664	**A903_68.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
26.4	53806	1.2	66.8	11495	**A803_66.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393

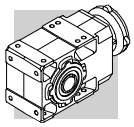


25 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
29.5	48150	1.4	59.8	11412	**A803_59.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
29.6	48018	2.5	59.6	15664	**A903_59.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
32	44446	1.5	55.2	11287	**A803_55.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
32	44325	2.6	55.0	15643	**A903_55.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
33	42877	1.0	53.2	9795	**A703_53.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
36	39467	1.0	49.0	10337	**A703_49.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
37	38903	2.9	48.3	15267	**A903_48.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	398...401
37	38809	1.7	48.2	11099	**A803_48.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
39	36431	1.1	45.2	10212	**A703_45.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
40	35824	1.7	44.5	10953	**A803_44.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
46	31010	2.0	38.5	10723	**A803_38.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
46	30916	1.3	38.4	10003	**A703_38.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
50	28625	2.0	35.5	10556	**A803_35.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
50	28538	1.3	35.4	9857	**A703_35.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
56	25502	1.0	31.7	6252	**A603_31.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
58	24628	2.1	30.6	10285	**A803_30.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
59	24244	1.5	30.1	9607	**A703_30.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
63	22733	2.4	28.2	10118	**A803_28.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
63	22434	1.1	27.9	6252	**A603_27.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
64	22379	1.5	27.8	9440	**A703_27.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
69	20708	1.2	25.7	6252	**A603_25.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
72	19734	2.8	24.5	9847	**A803_24.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
75	18944	1.9	23.5	9149	**A703_23.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
78	18216	2.8	22.6	9659	**A803_22.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	390...393
83	17160	1.9	21.3	8961	**A703_21.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
86	17134	1.0	20.6	6252	**A602_20.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
90	15840	1.9	19.7	8815	**A703_19.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
92	16000	0.9	19.2	5413	**A552_19.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	362...365
105	13925	1.2	16.7	6252	**A602_16.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
106	13442	2.4	16.7	8503	**A703_16.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
113	13046	1.1	15.7	5204	**A552_15.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	362...365
115	12408	2.4	15.4	8357	**A703_15.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
135	10541	3.0	13.1	8044	**A703_13.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
135	10880	1.4	13.1	5017	**A552_13.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	362...365
139	10570	1.6	12.7	6252	**A602_12.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
146	9730	3.0	12.1	7877	**A703_12.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	382...385
170	8615	1.7	10.4	4767	**A552_10.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	362...365
171	8583	1.9	10.3	6231	**A602_10.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
181	8099	1.0	9.7	1962	**A502_9.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	352...355
209	7040	2.1	8.5	4559	**A552_8.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	362...365
224	6543	2.5	7.9	5814	**A602_7.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	372...375
228	6437	1.2	7.7	1907	**A502_7.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	352...355
275	5333	2.6	6.4	4247	**A552_6.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	362...365

30 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
15.1	112051	1.1	116.9	15664	**A903_116.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
16.6	102386	1.2	106.8	15664	**A903_106.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
18.0	94510	1.3	98.6	15664	**A903_98.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
20.3	83455	1.5	87.1	15664	**A903_87.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
22.0	77035	1.6	80.4	15664	**A903_80.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
23.8	71388	1.7	74.5	15664	**A903_74.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
24.5	69365	0.9	72.4	10744	**A803_72.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
25.7	65897	1.8	68.8	15664	**A903_68.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
26.5	64029	1.0	66.8	10828	**A803_66.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393



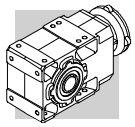
30 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
29.6	57298	1.1	59.8	10807	**A803_59.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
29.7	57142	2.1	59.6	15413	**A903_59.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
32	52891	1.2	55.2	10723	**A803_55.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
32	52746	2.2	55.0	15183	**A903_55.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
37	46295	2.5	48.3	14849	**A903_48.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
37	46183	1.4	48.2	10619	**A803_48.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
39	43353	0.9	45.2	9482	**A703_45.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
40	42734	2.7	44.6	14619	**A903_44.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	398...401
40	42631	1.4	44.5	10494	**A803_44.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
46	36902	1.7	38.5	10327	**A803_38.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
46	36790	1.1	38.4	9586	**A703_38.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
50	34063	1.7	35.5	10202	**A803_35.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
50	33960	1.1	35.4	9482	**A703_35.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
58	29307	1.8	30.6	9972	**A803_30.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
59	28850	1.3	30.1	9274	**A703_30.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
63	27052	2.0	28.2	9826	**A803_28.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
64	26696	0.9	27.9	6252	**A603_27.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	372...375
64	26631	1.3	27.8	9149	**A703_27.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
69	24643	1.0	25.7	6252	**A603_25.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	372...375
72	23483	2.4	24.5	9576	**A803_24.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
75	22544	1.6	23.5	8899	**A703_23.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
78	21677	2.4	22.6	9430	**A803_22.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
83	20420	1.6	21.3	8732	**A703_21.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
84	20080	2.7	20.9	9305	**A803_20.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
90	18849	1.6	19.7	8586	**A703_19.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
92	18535	2.7	19.3	9138	**A803_19.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	390...393
106	16571	1.0	16.7	6252	**A602_16.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	372...375
106	15996	2.1	16.7	8315	**A703_16.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
113	15525	1.0	15.7	5225	**A552_15.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	362...365
115	14765	2.1	15.4	8169	**A703_15.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
135	12544	2.5	13.1	7898	**A703_13.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
135	12947	1.1	13.1	4892	**A552_13.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	362...365
139	12578	1.3	12.7	6252	**A602_12.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	372...375
147	11579	2.5	12.1	7752	**A703_12.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
171	10252	1.4	10.4	4663	**A552_10.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	362...365
172	10214	1.6	10.3	6106	**A602_10.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	372...375
173	9802	2.7	10.2	7461	**A703_10.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
188	9048	2.7	9.4	7315	**A703_9.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	382...385
209	8378	1.8	8.5	4455	**A552_8.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	362...365
225	7786	2.1	7.9	5731	**A602_7.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	372...375
229	7660	1.0	7.7	1804	**A502_7.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	352...355
276	6347	2.2	6.4	4184	**A552_6.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	362...365
358	4896	2.7	4.9	3934	**A552_4.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	362...365

40 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
17.8	128661	1.0	98.6	14243	**A903_98.6**		**P200+IEC200L4**	**N320TC**	398...401
20.2	113611	1.1	87.1	14640	**A903_87.1**		**P200+IEC200L4**	**N320TC**	398...401
21.9	104871	1.2	80.4	14619	**A903_80.4**		**P200+IEC200L4**	**N320TC**	398...401
23.6	97184	1.3	74.5	14557	**A903_74.5**		**P200+IEC200L4**	**N320TC**	398...401
25.6	89708	1.3	68.8	14452	**A903_68.8**		**P200+IEC200L4**	**N320TC**	398...401

***The technical information shall be considered as indicative, the configurations should be matching the data provided by motors manufacturers on rated powers greater than 30 HP.**



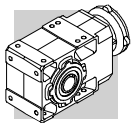
40 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
29.5	77790	1.5	59.6	14306	**A903_59.6**		**P200+IEC200L4**	**N320TC**	398...401
32	71806	1.6	55.0	14160	**A903_55.0**		**P200+IEC200L4**	**N320TC**	398...401
36	63023	1.8	48.3	13972	**A903_48.3**		**P200+IEC200L4**	**N320TC**	398...401
37	62871	1.0	48.2	9534	**A803_48.2**		**P200+IEC200L4**	**N320TC**	390...393
39	58175	2.0	44.6	13784	**A903_44.6**		**P200+IEC200L4**	**N320TC**	398...401
40	58035	1.1	44.5	9492	**A803_44.5**		**P200+IEC200L4**	**N320TC**	390...393
45	50638	2.3	38.8	13512	**A903_38.8**		**P200+IEC200L4**	**N320TC**	398...401
46	50236	1.2	38.5	9451	**A803_38.5**		**P200+IEC200L4**	**N320TC**	390...393
49	46743	2.4	35.8	13325	**A903_35.8**		**P200+IEC200L4**	**N320TC**	398...401
50	46372	1.2	35.5	9388	**A803_35.5**		**P200+IEC200L4**	**N320TC**	390...393
56	41102	2.8	31.5	13032	**A903_31.5**		**P200+IEC200L4**	**N320TC**	398...401
58	39897	1.3	30.6	9284	**A803_30.6**		**P200+IEC200L4**	**N320TC**	390...393
58	39275	1.0	30.1	8503	**A703_30.1**		**P200+IEC200L4**	**N320TC**	382...385
61	37941	2.8	29.1	12823	**A903_29.1**		**P200+IEC200L4**	**N320TC**	398...401
62	36828	1.5	28.2	9179	**A803_28.2**		**P200+IEC200L4**	**N320TC**	390...393
63	36254	1.0	27.8	8388	**A703_27.8**		**P200+IEC200L4**	**N320TC**	382...385
72	31968	1.7	24.5	9033	**A803_24.5**		**P200+IEC200L4**	**N320TC**	390...393
75	30690	1.1	23.5	8357	**A703_23.5**		**P200+IEC200L4**	**N320TC**	382...385
78	29509	1.7	22.6	8908	**A803_22.6**		**P200+IEC200L4**	**N320TC**	390...393
84	27335	2.0	20.9	8825	**A803_20.9**		**P200+IEC200L4**	**N320TC**	390...393
91	25233	2.0	19.3	8700	**A803_19.3**		**P200+IEC200L4**	**N320TC**	390...393
105	21842	2.5	16.7	8491	**A803_16.7**		**P200+IEC200L4**	**N320TC**	390...393
105	21776	1.5	16.7	7940	**A703_16.7**		**P200+IEC200L4**	**N320TC**	382...385
114	20162	2.5	15.5	8345	**A803_15.5**		**P200+IEC200L4**	**N320TC**	390...393
114	20101	1.5	15.4	7815	**A703_15.4**		**P200+IEC200L4**	**N320TC**	382...385
134	17076	1.8	13.1	7586	**A703_13.1**		**P200+IEC200L4**	**N320TC**	382...385
146	15763	1.8	12.1	7461	**A703_12.1**		**P200+IEC200L4**	**N320TC**	382...385
172	13343	2.0	10.2	7211	**A703_10.2**		**P200+IEC200L4**	**N320TC**	382...385
186	12317	2.0	9.4	7086	**A703_9.4**		**P200+IEC200L4**	**N320TC**	382...385

50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
22.0	129147	1.0	80.4	13993	**A903_80.4**		**P225+IEC225S4**	**N320TC**	398...401
23.7	119680	1.0	74.5	13241	**A903_74.5**		**P225+IEC225S4**	**N320TC**	398...401
25.7	110474	1.1	68.8	13345	**A903_68.8**		**P225+IEC225S4**	**N320TC**	398...401
29.6	95797	1.3	59.6	13345	**A903_59.6**		**P225+IEC225S4**	**N320TC**	398...401
32	88428	1.3	55.0	13283	**A903_55.0**		**P225+IEC225S4**	**N320TC**	398...401
37	77612	1.5	48.3	13178	**A903_48.3**		**P225+IEC225S4**	**N320TC**	398...401
40	71642	1.6	44.6	13053	**A903_44.6**		**P225+IEC225S4**	**N320TC**	398...401
45	62360	1.8	38.8	12886	**A903_38.8**		**P225+IEC225S4**	**N320TC**	398...401
46	61865	1.0	38.5	8700	**A803_38.5**		**P225+IEC225S4**	**N320TC**	390...393
49	57563	2.0	35.8	12740	**A903_35.8**		**P225+IEC225S4**	**N320TC**	398...401
50	57106	1.0	35.5	8679	**A803_35.5**		**P225+IEC225S4**	**N320TC**	390...393
56	50617	2.3	31.5	12510	**A903_31.5**		**P225+IEC225S4**	**N320TC**	398...401
58	49132	1.1	30.6	8679	**A803_30.6**		**P225+IEC225S4**	**N320TC**	390...393
61	46723	2.3	29.1	12343	**A903_29.1**		**P225+IEC225S4**	**N320TC**	398...401
63	45353	1.2	28.2	8616	**A803_28.2**		**P225+IEC225S4**	**N320TC**	390...393
72	39368	1.4	24.5	8533	**A803_24.5**		**P225+IEC225S4**	**N320TC**	390...393
73	38739	2.8	24.1	11967	**A903_24.1**		**P225+IEC225S4**	**N320TC**	398...401
78	36340	1.4	22.6	8449	**A803_22.6**		**P225+IEC225S4**	**N320TC**	390...393
79	35759	2.8	22.3	11779	**A903_22.3**		**P225+IEC225S4**	**N320TC**	398...401
84	33663	1.6	20.9	8408	**A803_20.9**		**P225+IEC225S4**	**N320TC**	390...393
91	31073	1.6	19.3	8303	**A803_19.3**		**P225+IEC225S4**	**N320TC**	390...393

***The technical information shall be considered as indicative, the configurations should be matching the data provided by motors manufacturers on rated powers greater than 30 HP.**



50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
105	26898	2.0	16.7	14416	**A803_16.7**		**P225+IEC225S4**	**N320TC**	390...393
114	24829	2.0	15.5	8032	**A803_15.5**		**P225+IEC225S4**	**N320TC**	390...393
133	21362	2.5	13.3	7844	**A803_13.3**		**P225+IEC225S4**	**N320TC**	390...393
144	19718	2.5	12.3	7719	**A803_12.3**		**P225+IEC225S4**	**N320TC**	390...393

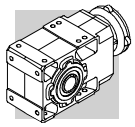
60 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
30	116204	1.0	59.6	12447	**A903_59.6**		**P225+IEC225M4**		398...401
32	107266	1.1	55.0	12301	**A903_55.0**		**P225+IEC225M4**		398...401
37	94146	1.2	48.3	11863	**A903_48.3**		**P225+IEC225M4**		398...401
40	86904	1.3	44.6	11696	**A903_44.6**		**P225+IEC225M4**		398...401
46	75644	1.5	38.8	12113	**A903_38.8**		**P225+IEC225M4**		398...401
49	69826	1.6	35.8	12218	**A903_35.8**		**P225+IEC225M4**		398...401
56	61400	1.9	31.5	11487	**A903_31.5**		**P225+IEC225M4**		398...401
61	56677	1.9	29.1	11487	**A903_29.1**		**P225+IEC225M4**		398...401
63	55014	1.0	28.2	8074	**A803_28.2**		**P225+IEC225M4**		390...393
72	47755	1.2	24.5	7552	**A803_24.5**		**P225+IEC225M4**		390...393
73	46991	2.3	24.1	10965	**A903_24.1**		**P225+IEC225M4**		398...401
78	44082	1.2	22.6	7510	**A803_22.6**		**P225+IEC225M4**		390...393
80	43376	2.3	22.3	10985	**A903_22.3**		**P225+IEC225M4**		398...401
84	40933	2.5	21.0	11069	**A903_21.0**		**P225+IEC225M4**		398...401
84	40834	1.3	20.9	8115	**A803_20.9**		**P225+IEC225M4**		390...393
91	37784	2.5	19.4	11027	**A903_19.4**		**P225+IEC225M4**		398...401
92	37693	1.3	19.3	8032	**A803_19.3**		**P225+IEC225M4**		390...393
105	32889	3.0	16.9	10860	**A903_16.9**		**P225+IEC225M4**		398...401
106	32628	1.6	16.7	7782	**A803_16.7**		**P225+IEC225M4**		390...393
114	30359	3.0	15.6	10672	**A903_15.6**		**P225+IEC225M4**		398...401
115	30118	1.6	15.5	7698	**A803_15.5**		**P225+IEC225M4**		390...393
133	25912	2.1	13.3	7552	**A803_13.3**		**P225+IEC225M4**		390...393
144	23919	2.1	12.3	7448	**A803_12.3**		**P225+IEC225M4**		390...393
166	20763	2.6	10.7	7281	**A803_10.7**		**P225+IEC225M4**		390...393
180	19166	2.6	9.8	7177	**A803_9.8**		**P225+IEC225M4**		390...393

75 hp

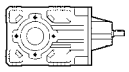
n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
37	114765	1.0	48.3	11027	**A903_48.3**		**P250+IEC250M4**		398...401
40	105937	1.1	44.6	11257	**A903_44.6**		**P250+IEC250M4**		398...401
46	92211	1.2	38.8	11299	**A903_38.8**		**P250+IEC250M4**		398...401
49	85118	1.3	35.8	11278	**A903_35.8**		**P250+IEC250M4**		398...401
56	74847	1.5	31.5	11236	**A903_31.5**		**P250+IEC250M4**		398...401
61	69089	1.5	29.1	11153	**A903_29.1**		**P250+IEC250M4**		398...401
73	57283	1.9	24.1	10985	**A903_24.1**		**P250+IEC250M4**		398...401
80	52876	1.9	22.3	10860	**A903_22.3**		**P250+IEC250M4**		398...401
84	49898	2.0	21.0	10797	**A903_21.0**		**P250+IEC250M4**		398...401
91	46059	2.1	19.4	10672	**A903_19.4**		**P250+IEC250M4**		398...401
105	40092	2.4	16.9	10463	**A903_16.9**		**P250+IEC250M4**		398...401
114	37008	2.4	15.6	10317	**A903_15.6**		**P250+IEC250M4**		398...401
129	32542	2.8	13.7	10108	**A903_13.7**		**P250+IEC250M4**		398...401
140	30039	2.9	12.6	9941	**A903_12.6**		**P250+IEC250M4**		398...401

***The technical information shall be considered as indicative, the configurations should be matching the data provided by motors manufacturers on rated powers greater than 30 HP.**

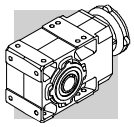


39 GEARBOX RATING CHARTS

A 10 — 1330 lb·in

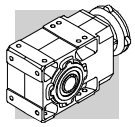
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 10 2_5.5	5.5	327	646	3.6	—	500	218	646	2.4	227	587	
A 10 2_6.3	6.3	286	708	3.4	—	520	190	708	2.3	197	611	
A 10 2_7.2	7.2	250	814	3.4	—	528	167	823	2.3	149	621	
A 10 2_8.5	8.5	212	814	2.9	—	567	141	841	2.0	171	666	
A 10 2_9.6	9.6	188	1047	3.3	—	539	125	1133	2.4	—	633	
A 10 2_10.6	10.6	170	1227	3.5	166	526	113	1330	2.5	192	618	
A 10 2_12.3	12.3	146	1129	2.8	—	585	98	1276	2.1	—	688	
A 10 2_13.9	13.9	129	1227	2.7	221	602	86	1330	1.9	256	707	
A 10 2_16.4	16.4	110	1239	2.3	233	650	73	1330	1.6	270	764	
A 10 2_18.6	18.6	97	1301	2.1	241	687	65	1330	1.4	280	807	308
A 10 2_21.4	21.4	84	1330	1.9	245	732	56	1330	1.3	284	859	309
A 10 2_23.8	23.8	76	1330	1.7	250	768	50	1330	1.1	289	902	
A 10 2_25.5	25.5	71	1330	1.6	250	793	47	1330	1.1	289	931	
A 10 2_28.6	28.6	63	1330	1.4	256	833	42	1330	0.94	292	979	
A 10 2_32.2	32.2	56	1330	1.3	260	876	37	1330	0.83	292	1029	
A 10 2_35.1	35.1	51	1330	1.1	260	908	34	1330	0.77	292	1067	
A 10 2_40.9	40.9	44	1330	0.99	266	969	29	1330	0.66	292	1139	
A 10 2_45.4	45.4	40	1330	0.89	266	1012	26.4	1330	0.59	292	1189	
A 10 2_51.3	51.3	35	1330	0.79	264	1065	23.4	1330	0.52	292	1236	
A 10 2_58.6	58.6	31	1330	0.69	266	1118	20.5	1330	0.46	292	1236	
A 10 2_65.9	65.9	27.3	1330	0.61	266	1118	18.2	1330	0.41	292	1236	
A 10 2_76.4	76.4	23.6	1330	0.53	266	1118	15.7	1330	0.35	292	1236	
A 10 2_91.6	91.6	19.7	1151	0.38	266	1160	13.1	1151	0.25	292	1236	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



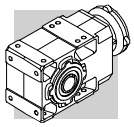
A 20 — 2210 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 20 2_5.4	5.4	333	994	5.6	157	494	222	1123	4.2	182	569	
A 20 2_6.5	6.5	277	1109	5.2	125	521	185	1253	3.9	144	599	
A 20 2_7.3	7.3	247	1175	4.9	129	535	164	1328	3.7	149	616	
A 20 2_8.4	8.4	214	1199	4.3	133	566	143	1356	3.3	154	652	
A 20 2_9.4	9.4	191	1265	4.1	135	585	128	1430	3.1	156	673	
A 20 2_10.3	10.3	175	1848	5.4	182	519	117	2089	4.1	210	597	
A 20 2_12.0	12.0	150	1322	3.3	141	642	100	1495	2.5	163	672	
A 20 2_14.1	14.1	128	2012	4.3	196	581	85	2210	3.2	227	668	
A 20 2_16.2	16.2	111	2053	3.8	212	616	74	2210	2.8	246	708	
A 20 2_18.1	18.1	99	2053	3.4	247	653	66	2210	2.5	286	751	
A 20 2_21.2	21.2	85	2053	2.9	263	706	57	2210	2.1	305	813	
A 20 2_23.1	23.1	78	2053	2.7	278	737	52	2210	1.9	322	848	
A 20 2_26.5	26.5	68	2133	2.4	288	787	45	2210	1.7	333	905	
A 20 2_29.2	29.2	62	2204	2.3	308	824	41	2210	1.5	357	948	
A 20 2_31.3	31.3	58	2210	2.1	308	850	38	2210	1.4	357	979	
A 20 2_35.4	35.4	51	2210	1.9	337	902	34	2210	1.3	390	1038	
A 20 2_39.6	39.6	45	2210	1.7	349	947	30	2210	1.1	404	1090	
A 20 2_43.2	43.2	42	2210	1.6	349	986	27.8	2210	1.0	404	1135	
A 20 2_48.3	48.3	37	2210	1.4	351	1036	24.8	2210	0.93	407	1192	318 319
A 20 2_53.7	53.7	34	2210	1.3	351	1085	22.3	2210	0.83	407	1249	
A 20 2_63.1	63.1	28.5	2012	0.97	355	1170	19.0	2169	0.70	412	1346	
A 20 2_71.0	71.0	25.4	1725	0.74	365	1277	16.9	1859	0.53	423	1394	
A 20 2_79.9	79.9	22.5	1725	0.66	365	1277	15.0	1859	0.47	423	1394	
A 20 2_92.3	92.3	19.5	1643	0.54	369	1277	13.0	1770	0.39	428	1394	
A 20 3_109.2	109.2	16.5	1684	0.48	265	1326	11.0	1903	0.36	292	1394	
A 20 3_120.5	120.5	14.9	1725	0.45	265	1374	10.0	1950	0.34	292	1394	
A 20 3_129.1	129.1	13.9	1766	0.43	272	1394	9.3	1996	0.32	292	1394	
A 20 3_146.1	146.1	12.3	1889	0.41	265	1394	8.2	2136	0.31	292	1394	
A 20 3_163.4	163.4	11.0	1930	0.37	279	1394	7.3	2182	0.28	292	1394	
A 20 3_178.3	178.3	10.1	2012	0.35	270	1394	6.7	2210	0.26	292	1394	
A 20 3_199.2	199.2	9.0	2053	0.32	286	1394	6.0	2210	0.23	292	1394	
A 20 3_221.3	221.3	8.1	2053	0.29	279	1394	5.4	2210	0.21	292	1394	
A 20 3_260.5	260.5	6.9	2053	0.25	286	1394	4.6	2210	0.18	292	1394	
A 20 3_292.8	292.8	6.1	2053	0.22	292	1394	4.1	2210	0.16	292	1394	
A 20 3_329.4	329.4	5.5	2053	0.20	292	1394	3.6	2210	0.14	292	1394	
A 20 3_380.9	380.9	4.7	2053	0.17	292	1394	3.2	2210	0.12	292	1394	

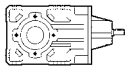


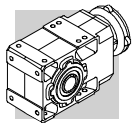
A 30 — 3630 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 30 2_5.4	5.4	333	1805	10.2	292	645	222	2041	7.7	338	742	
A 30 2_6.4	6.4	281	1887	9.0	300	686	188	2133	6.7	348	789	
A 30 2_7.0	7.0	257	2010	8.7	292	696	171	2273	6.6	338	801	
A 30 2_8.5	8.5	212	2051	7.3	320	754	141	2319	5.5	371	867	
A 30 2_9.3	9.3	194	2215	7.2	294	764	129	2505	5.5	341	879	
A 30 2_10.5	10.5	171	2790	8.1	449	731	114	3154	6.1	495	841	
A 30 2_11.8	11.8	153	2379	6.1	290	830	102	2690	4.6	336	955	
A 30 2_13.6	13.6	132	3036	6.8	449	797	88	3432	5.1	495	917	
A 30 2_16.3	16.3	110	3159	5.9	449	859	74	3571	4.4	495	988	
A 30 2_18.0	18.0	100	3282	5.5	449	883	67	3630	4.1	495	1017	
A 30 2_20.5	20.5	88	3364	5.0	449	933	59	3630	3.6	495	1073	
A 30 2_22.8	22.8	79	3364	4.5	449	982	53	3630	3.2	495	1130	
A 30 2_26.5	26.5	68	3364	3.9	449	1061	45	3630	2.8	495	1220	
A 30 2_29.3	29.3	61	3364	3.5	449	1112	41	3630	2.5	495	1280	
A 30 2_33.4	33.4	54	3478	3.2	449	1184	36	3630	2.2	495	1362	
A 30 2_36.6	36.6	49	3576	3.0	449	1238	33	3630	2.0	495	1424	
A 30 2_39.3	39.3	46	3630	2.8	449	1277	31	3630	1.9	495	1469	
A 30 2_43.4	43.4	41	3630	2.5	449	1336	27.6	3630	1.7	495	1538	
A 30 2_48.3	48.3	37	3630	2.3	449	1402	24.8	3630	1.5	495	1614	
A 30 2_52.7	52.7	34	3630	2.1	449	1458	22.8	3630	1.4	495	1678	328 329
A 30 2_59.4	59.4	30	3540	1.8	449	1551	20.2	3540	1.2	495	1784	
A 30 2_66.0	66.0	27.3	3452	1.6	449	1635	18.2	3452	1.1	495	1881	
A 30 2_76.5	76.5	23.5	3098	1.2	449	1789	15.7	3098	0.82	495	2059	
A 30 2_86.7	86.7	20.8	2832	0.99	449	1917	13.8	2832	0.66	495	2158	
A 30 2_97.5	97.5	18.5	2655	0.83	449	1977	12.3	2655	0.55	495	2158	
A 30 3_109.1	109.1	16.5	2461	0.71	292	1977	11.0	2783	0.53	292	2158	
A 30 3_120.5	120.5	14.9	2461	0.64	265	1977	10.0	2783	0.48	292	2158	
A 30 3_137.4	137.4	13.1	2585	0.59	292	2012	8.7	2922	0.44	292	2158	
A 30 3_150.7	150.7	11.9	2708	0.56	265	2071	8.0	3061	0.42	292	2158	
A 30 3_161.4	161.4	11.2	2790	0.54	292	2115	7.4	3154	0.41	292	2158	
A 30 3_178.5	178.5	10.1	2831	0.50	272	2158	6.7	3200	0.37	292	2158	
A 30 3_198.5	198.5	9.1	2872	0.45	292	2158	6.0	3247	0.34	292	2158	
A 30 3_216.6	216.6	8.3	2954	0.43	279	2158	5.5	3339	0.32	292	2158	
A 30 3_244.3	244.3	7.4	3036	0.39	292	2158	4.9	3432	0.29	292	2158	
A 30 3_271.5	271.5	6.6	3118	0.36	288	2158	4.4	3525	0.27	292	2158	
A 30 3_314.5	314.5	5.7	3200	0.32	292	2158	3.8	3618	0.24	292	2158	
A 30 3_356.3	356.3	5.1	3036	0.27	292	2158	3.4	3363	0.20	292	2158	
A 30 3_400.8	400.8	4.5	2954	0.23	292	2158	3.0	3186	0.17	292	2158	



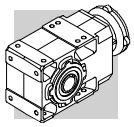
A 35 — 5310 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 35 2_5.4	5.4	333	2544	14.3	351	1051	222	2876	10.8	425	1189	
A 35 2_6.4	6.4	281	2708	12.8	351	1110	188	3061	9.7	425	1255	
A 35 2_7.0	7.0	257	2872	12.5	351	1132	171	3247	9.4	425	1280	
A 35 2_8.5	8.5	212	2954	10.6	359	1218	141	3339	8.0	434	1377	
A 35 2_9.3	9.3	194	3118	10.2	359	1249	129	3525	7.7	434	1412	
A 35 2_10.6	10.6	170	3200	9.2	359	1314	113	3540	6.8	434	1485	
A 35 2_11.8	11.8	153	3282	8.4	365	1364	102	3540	6.1	441	1542	
A 35 2_13.1	13.1	137	4513	10.5	412	1203	92	5102	7.9	495	1360	
A 35 2_15.5	15.5	116	4677	9.2	416	1289	77	5287	6.9	470	1457	
A 35 2_17.0	17.0	106	4923	8.8	418	1314	71	5310	6.3	495	1485	
A 35 2_20.4	20.4	88	4923	7.3	425	1443	59	5310	5.3	495	1631	
A 35 2_22.5	22.5	80	4923	6.6	431	1511	53	5310	4.8	495	1709	
A 35 2_25.7	25.7	70	5178	6.1	431	1611	47	5310	4.2	495	1822	
A 35 2_28.4	28.4	63	5310	5.7	431	1692	42	5310	3.8	495	1914	
A 35 2_33.2	33.2	54	5310	4.9	431	1817	36	5310	3.2	495	2055	
A 35 2_36.6	36.6	49	5310	4.4	431	1903	33	5310	2.9	495	2151	
A 35 2_41.8	41.8	43	5310	3.9	431	2019	28.7	5310	2.6	495	2283	
A 35 2_45.8	45.8	39	5310	3.5	431	2103	26.2	5310	2.3	495	2377	
A 35 2_49.1	49.1	37	5310	3.3	431	2165	24.4	5310	2.2	495	2448	
A 35 2_54.3	54.3	33	5310	3.0	431	2269	22.1	5310	2.0	495	2566	338 339
A 35 2_60.4	60.4	29.8	5310	2.7	431	2373	19.9	5310	1.8	495	2683	
A 35 2_65.8	65.8	27.4	5310	2.5	431	2456	18.2	5310	1.6	495	2698	
A 35 2_74.3	74.3	24.2	5310	2.2	431	2498	16.2	5310	1.4	495	2698	
A 35 2_82.5	82.5	21.8	5310	2.0	431	2498	14.5	5310	1.3	495	2698	
A 35 2_95.6	95.6	18.8	4780	1.5	431	2498	12.6	4780	1.0	495	2698	
A 35 3_105.5	105.5	17.1	4308	1.3	153	2698	11.4	4870	0.97	185	2698	
A 35 3_116.9	116.9	15.4	4595	1.2	171	2698	10.3	5195	0.93	206	2698	
A 35 3_136.3	136.3	13.2	4718	1.1	218	2698	8.8	5310	0.81	263	2698	
A 35 3_150.6	150.6	12.0	4923	1.0	227	2698	8.0	5310	0.74	275	2698	
A 35 3_171.8	171.8	10.5	4923	0.90	245	2698	7.0	5310	0.65	292	2698	
A 35 3_188.3	188.3	9.6	4923	0.82	255	2698	6.4	5310	0.59	292	2698	
A 35 3_201.8	201.8	8.9	4923	0.77	255	2698	5.9	5310	0.55	292	2698	
A 35 3_223.2	223.2	8.1	4923	0.69	255	2698	5.4	5310	0.50	292	2698	
A 35 3_248.1	248.1	7.3	5001	0.63	255	2698	4.8	5310	0.45	292	2698	
A 35 3_270.7	270.7	6.6	5045	0.58	255	2698	4.4	5310	0.41	292	2698	
A 35 3_305.4	305.4	5.9	5178	0.53	256	2698	3.9	5310	0.36	292	2698	
A 35 3_339.3	339.3	5.3	4267	0.39	272	2698	3.5	4603	0.28	292	2698	
A 35 3_393.2	393.2	4.6	3815	0.30	283	2698	3.1	4116	0.22	292	2698	



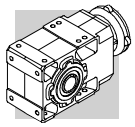
A 41 — 7520 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 41 2_5.2	5.2	346	4513	26	500	1146	231	4868	19.0	579	1317	
A 41 2_7.1	7.1	254	4513	19.3	545	1326	169	4868	13.9	631	1524	
A 41 2_8.3	8.3	217	4513	16.5	561	1427	145	4868	11.9	650	1640	
A 41 2_9.2	9.2	196	4691	15.5	584	1493	130	4868	10.7	676	1716	
A 41 2_10.1	10.1	178	4390	13.2	692	1577	119	4958	9.9	787	1813	
A 41 2_11.7	11.7	154	4868	12.6	602	1664	103	4868	8.4	697	1912	
A 41 2_13.8	13.8	130	4800	10.6	700	1754	87	5421	8.0	787	2016	
A 41 2_16.1	16.1	112	5005	9.4	700	1855	75	5653	7.1	787	2133	
A 41 2_17.8	17.8	101	5169	8.8	708	1917	67	5838	6.6	787	2204	
A 41 2_22.7	22.7	79	5579	7.5	706	2082	53	6302	5.6	787	2393	
A 41 2_28.3	28.3	64	5990	6.4	704	2247	42	6765	4.8	787	2583	
A 41 2_35.9	35.9	50	6400	5.4	696	2433	33	7228	4.1	787	2796	
A 41 2_45.1	45.1	40	6810	4.6	680	2639	26.6	7520	3.4	787	3033	
A 41 2_48.3	48.3	37	6974	4.4	653	2701	24.8	7520	3.2	756	3104	
A 41 2_53.1	53.1	34	6974	4.0	680	2824	22.6	7520	2.9	787	3246	
A 41 2_58.8	58.8	31	6974	3.6	706	2948	20.4	7520	2.6	787	3372	348 349
A 41 2_64.2	64.2	28.0	6974	3.3	706	3051	18.7	7520	2.4	787	3372	
A 41 2_71.3	71.3	25.2	6974	3.0	708	3092	16.8	7520	2.1	787	3372	
A 41 2_79.2	79.2	22.7	6564	2.5	714	3092	15.2	7081	1.8	787	3372	
A 41 3_92.8	92.8	19.4	6564	2.2	88	3147	12.9	7081	1.6	102	3372	
A 41 3_115.9	115.9	15.5	7081	1.9	200	3282	10.4	7520	1.4	232	3372	
A 41 3_146.9	146.9	12.3	7520	1.6	335	3372	8.2	7520	1.1	387	3372	
A 41 3_184.4	184.4	9.8	7520	1.3	361	3372	6.5	7520	0.85	418	3372	
A 41 3_197.5	197.5	9.1	7520	1.2	365	3372	6.1	7520	0.80	423	3372	
A 41 3_217.4	217.4	8.3	7520	1.1	372	3372	5.5	7520	0.72	430	3372	
A 41 3_240.6	240.6	7.5	7520	0.98	376	3372	5.0	7520	0.65	435	3372	
A 41 3_262.5	262.5	6.9	7520	0.90	380	3372	4.6	7520	0.60	439	3372	
A 41 3_291.7	291.7	6.2	7520	0.81	384	3372	4.1	7520	0.54	444	3372	
A 41 3_324.2	324.2	5.6	7520	0.73	388	3372	3.7	7520	0.49	449	3372	
A 41 3_376.8	376.8	4.8	7520	0.63	394	3372	3.2	7520	0.42	456	3372	



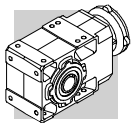
A 50 — 13300 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 50 2_7.7	7.7	234	5743	23	590	2051	156	6487	17.1	683	2360	
A 50 2_9.7	9.7	186	6154	19.3	602	2224	124	6950	14.5	698	2559	
A 50 2_13.1	13.1	137	6154	14.3	635	2492	92	6950	10.7	736	2867	
A 50 2_16.6	16.6	108	6564	12.0	643	2698	72	7414	9.0	745	3104	
A 50 2_20.9	20.9	86	6564	9.5	655	2965	57	7414	7.2	759	3412	
A 50 3_24.0	24.0	75	12307	16.1	429	1759	50	13300	11.6	497	2024	
A 50 3_26.4	26.4	68	12307	14.6	549	1874	45	13300	10.5	636	2156	
A 50 3_32.4	32.4	56	12307	11.9	563	2142	37	13300	8.6	653	2464	
A 50 3_35.6	35.6	51	12307	10.8	672	2265	34	13300	7.8	778	2606	
A 50 3_40.9	40.9	44	12524	9.6	657	2451	29.3	13300	6.8	762	2820	
A 50 3_45.0	45.0	40	13011	9.1	702	2595	26.7	13300	6.2	787	2986	
A 50 3_51.7	51.7	35	13300	8.1	694	2801	23.2	13300	5.4	776	3223	
A 50 3_56.8	56.8	32	13300	7.3	710	2965	21.1	13300	4.9	787	3412	
A 50 3_63.9	63.9	28.2	13300	6.5	704	3151	18.8	13300	4.3	787	3625	
A 50 3_70.2	70.2	25.6	13300	5.9	714	3315	17.1	13300	4.0	787	3815	
A 50 3_81.5	81.5	22.1	13300	5.1	714	3563	14.7	13300	3.4	787	4099	
A 50 3_89.5	89.5	20.1	13300	4.7	714	3748	13.4	13300	3.1	787	4312	
A 50 3_99.5	99.5	18.1	13300	4.2	714	3954	12.1	13300	2.8	787	4496	
A 50 3_109.4	109.4	16.5	13300	3.8	714	4119	11.0	13300	2.5	787	4496	
A 50 3_118.0	118.0	15.3	13300	3.5	714	4119	10.2	13300	2.4	787	4496	358 359
A 50 3_129.7	129.7	13.9	13300	3.2	714	4119	9.3	13300	2.1	787	4496	
A 50 3_140.6	140.6	12.8	13300	3.0	714	4119	8.5	13300	2.0	787	4496	
A 50 3_154.6	154.6	11.6	13300	2.7	714	4119	7.8	13300	1.8	787	4496	
A 50 3_173.4	173.4	10.4	13300	2.4	714	4119	6.9	13300	1.6	787	4496	
A 50 3_190.6	190.6	9.4	13300	2.2	714	4226	6.3	13300	1.5	787	4496	
A 50 4_211.0	211.0	8.5	13300	2.0	449	4496	5.7	13300	1.3	495	4496	
A 50 4_232.0	232.0	7.8	13300	1.8	449	4496	5.2	13300	1.2	495	4496	
A 50 4_260.9	260.9	6.9	13300	1.6	452	4496	4.6	13300	1.1	495	4496	
A 50 4_286.8	286.8	6.3	13300	1.5	459	4496	4.2	13300	0.99	495	4496	
A 50 4_332.6	332.6	5.4	13300	1.3	468	4496	3.6	13300	0.85	495	4496	
A 50 4_365.6	365.6	4.9	13300	1.2	472	4496	3.3	13300	0.78	495	4496	
A 50 4_406.4	406.4	4.4	13300	1.0	479	4496	3.0	13300	0.70	495	4496	
A 50 4_446.8	446.8	4.0	13300	0.95	481	4496	2.7	13300	0.64	495	4496	
A 50 4_481.6	481.6	3.7	13300	0.88	486	4496	2.5	13300	0.59	495	4496	
A 50 4_529.5	529.5	3.4	13300	0.80	488	4496	2.3	13300	0.54	495	4496	
A 50 4_574.2	574.2	3.1	13300	0.74	492	4496	2.1	13300	0.49	495	4496	
A 50 4_631.2	631.2	2.9	13300	0.67	495	4496	1.9	13300	0.45	495	4496	
A 50 4_707.9	707.9	2.5	13300	0.60	495	4496	1.7	13300	0.40	495	4496	
A 50 4_778.2	778.2	2.3	13300	0.55	495	4496	1.5	13300	0.36	495	4496	



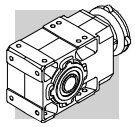
A 55 — 17700 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 55 2_4.9	4.9	367	7384	46	421	3893	245	8340	36	510	4402	
A 55 2_6.4	6.4	281	7795	37	561	4226	188	8804	29	678	4778	
A 55 2_8.5	8.5	212	7795	28	686	4621	141	8804	22	787	5225	
A 55 2_10.4	10.4	173	8205	24	686	4913	115	9267	18.6	787	5555	
A 55 2_13.1	13.1	137	8205	19.0	726	5308	92	9267	14.8	787	6002	
A 55 2_15.7	15.7	115	8205	15.9	773	5621	76	9267	12.3	787	6355	
A 55 2_19.2	19.2	94	9025	14.3	710	5954	63	10194	11.1	787	6732	
A 55 3_23.8	23.8	76	16000	21	518	5413	50	17700	15.6	626	6120	
A 55 3_29.9	29.9	60	16410	17	543	5871	40	17700	12.4	657	6638	
A 55 3_40.3	40.3	45	16410	13	574	6245	29.8	17700	9.2	695	6744	
A 55 3_51.0	51.0	35	17700	11	598	6245	23.5	17700	7.3	723	6744	
A 55 3_64.3	64.3	28.0	17700	9	610	6519	18.7	17700	5.8	738	6744	
A 55 3_79.5	79.5	22.6	17700	7	553	6744	15.1	17700	4.7	669	6744	
A 55 3_101.4	101.4	17.8	17700	5	614	6744	11.8	17700	3.7	742	6744	
A 55 3_123.9	123.9	14.5	17700	4	633	6744	9.7	17700	3.0	766	6744	368
A 55 3_132.7	132.7	13.6	17700	4	635	6744	9.0	17700	2.8	768	6744	369
A 55 3_146.8	146.8	12.3	17700	4	645	6744	8.2	17700	2.5	780	6744	
A 55 3_160.4	160.4	11.2	17700	3	647	6744	7.5	17700	2.3	783	6744	
A 55 3_175.0	175.0	10.3	17700	3	647	6744	6.9	17700	2.1	783	6744	
A 55 3_194.2	194.2	9.3	17700	3	649	6744	6.2	17700	1.9	785	6744	
A 55 4_208.1	208.1	8.6	16000	2.5	431	6744	5.8	17700	1.8	495	6744	
A 55 4_262.6	262.6	6.9	16410	2.0	445	6744	4.6	17700	1.4	495	6744	
A 55 4_324.7	324.7	5.5	16410	1.6	456	6744	3.7	17700	1.2	495	6744	
A 55 4_414.0	414.0	4.3	16410	1.3	468	6744	2.9	17700	0.91	495	6744	
A 55 4_505.9	505.9	3.6	16817	1.1	477	6744	2.4	17700	0.75	495	6744	
A 55 4_542.0	542.0	3.3	16817	1.0	481	6744	2.2	17700	0.70	495	6744	
A 55 4_599.5	599.5	3.0	17260	0.92	483	6744	2.0	17700	0.63	495	6744	
A 55 4_655.1	655.1	2.7	17260	0.85	490	6744	1.8	17700	0.58	495	6744	
A 55 4_714.7	714.7	2.5	17260	0.77	495	6744	1.7	17700	0.53	495	6744	
A 55 4_793.0	793.0	2.3	17700	0.72	495	6744	1.5	17700	0.48	495	6744	



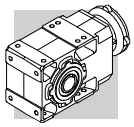
A 60 — 24800 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 60 2_7.9	7.9	228	9846	39	694	5773	152	11121	29	803	6520	
A 60 2_10.3	10.3	175	9846	30	763	6252	117	11121	22	884	6744	
A 60 2_12.7	12.7	142	10256	25	778	6252	94	11584	18.5	900	6744	
A 60 2_16.7	16.7	108	10666	20	798	6430	72	12047	14.6	924	6744	
A 60 2_20.6	20.6	87	11487	17.5	794	6744	58	12974	12.8	919	6744	
A 60 3_25.7	25.7	70	24429	29.8	776	6252	47	24800	20.2	898	6744	
A 60 3_27.9	27.9	65	24800	27.9	802	6252	43	24800	18.6	929	6744	
A 60 3_31.7	31.7	57	24800	24.5	804	6519	38	24800	16.4	931	6744	
A 60 3_34.3	34.3	52	24800	22.7	829	6744	35	24800	15.1	959	6744	
A 60 3_41.7	41.7	43	24800	18.6	835	6744	28.8	24800	12.4	966	6744	
A 60 3_45.2	45.2	40	24800	17.2	857	6744	26.5	24800	11.5	992	6744	
A 60 3_51.3	51.3	35	24800	15.2	853	6744	23.4	24800	10.1	988	6744	
A 60 3_55.6	55.6	32	24800	14.0	874	6744	21.6	24800	9.3	1011	6744	
A 60 3_65.0	65.0	27.7	24800	12.0	870	6744	18.5	24800	8.0	1007	6744	
A 60 3_70.4	70.4	25.6	24800	11.0	890	6744	17.0	24800	7.4	1030	6744	
A 60 3_79.7	79.7	22.6	24800	9.8	880	6744	15.1	24800	6.5	1018	6744	
A 60 3_86.4	86.4	20.8	24800	9.0	900	6744	13.9	24800	6.0	1042	6744	
A 60 3_99.5	99.5	18.1	24800	7.8	890	6744	12.1	24800	5.2	1030	6744	
A 60 3_107.8	107.8	16.7	24800	7.2	908	6744	11.1	24800	4.8	1051	6744	
A 60 3_123.0	123.0	14.6	24800	6.3	898	6744	9.8	24800	4.2	1040	6744	378 379
A 60 3_133.3	133.3	13.5	24800	5.8	917	6744	9.0	24800	3.9	1057	6744	
A 60 3_144.0	144.0	12.5	24800	5.4	902	6744	8.3	24800	3.6	1044	6744	
A 60 3_156.0	156.0	11.5	24800	5.0	921	6744	7.7	24800	3.3	1057	6744	
A 60 3_171.5	171.5	10.5	24800	4.5	904	6744	7.0	24800	3.0	1047	6744	
A 60 3_185.8	185.8	9.7	24800	4.2	923	6744	6.5	24800	2.8	1057	6744	
A 60 4_208.7	208.7	8.6	24800	3.8	714	6744	5.7	24800	2.5	787	6744	
A 60 4_226.1	226.1	8.0	24800	3.5	714	6744	5.3	24800	2.3	787	6744	
A 60 4_264.3	264.3	6.8	24800	3.0	714	6744	4.5	24800	2.0	787	6744	
A 60 4_286.3	286.3	6.3	24800	2.8	714	6744	4.2	24800	1.9	787	6744	
A 60 4_324.2	324.2	5.6	24800	2.5	714	6744	3.7	24800	1.6	787	6744	
A 60 4_351.2	351.2	5.1	24800	2.3	714	6744	3.4	24800	1.5	787	6744	
A 60 4_404.7	404.7	4.4	24800	2.0	714	6744	3.0	24800	1.3	787	6744	
A 60 4_438.4	438.4	4.1	24800	1.8	714	6744	2.7	24800	1.2	787	6744	
A 60 4_500.3	500.3	3.6	24800	1.6	714	6744	2.4	24800	1.1	787	6744	
A 60 4_542.0	542.0	3.3	24800	1.5	714	6744	2.2	24800	0.98	787	6744	
A 60 4_585.8	585.8	3.1	24800	1.4	714	6744	2.0	24800	0.90	787	6744	
A 60 4_634.6	634.6	2.8	24800	1.3	714	6744	1.9	24800	0.84	787	6744	
A 60 4_697.3	697.3	2.6	24800	1.1	717	6744	1.7	24800	0.76	787	6744	
A 60 4_755.4	755.4	2.4	24800	1.1	722	6744	1.6	24800	0.70	787	6744	



A 70 — 44300 lb·in

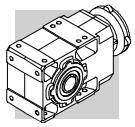
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 70 3_9.4	9.4	191	22974	77	521	6648	128	25948	58	606	7516	
A 70 3_10.2	10.2	176	26256	81	558	6648	118	28766	59	352	7516	
A 70 3_12.1	12.1	149	26256	68	544	7065	99	29655	51	333	7987	
A 70 3_13.1	13.1	137	27487	66	544	7211	92	31045	50	499	8152	
A 70 3_15.4	15.4	117	27487	56	496	7648	78	31045	42	577	8647	
A 70 3_16.7	16.7	108	29538	55	562	7752	72	33362	42	615	8764	
A 70 3_19.7	19.7	91	30358	48	456	8190	61	32749	35	425	9259	
A 70 3_21.3	21.3	85	32820	48	618	8294	56	35404	35	435	9377	
A 70 3_23.5	23.5	77	35281	47	1276	8440	51	39849	35	1485	9542	
A 70 3_27.8	27.8	65	34461	39	1286	9024	43	38922	29.3	1497	10202	
A 70 3_30.1	30.1	60	37333	39	1286	9149	40	42165	29.3	1497	10343	
A 70 3_35.4	35.4	51	36922	33	1300	9711	34	41702	24.6	1514	10979	
A 70 3_38.4	38.4	47	39794	33	1302	9857	31	44300	24.1	1516	11144	
A 70 3_45.2	45.2	40	39384	27.3	1306	10420	26.5	44300	20.5	1521	11240	
A 70 3_49.0	49.0	37	41025	26.3	1317	10420	24.5	44300	18.9	1533	11240	
A 70 3_53.2	53.2	34	41025	24.2	1302	10420	22.6	44300	17.4	1516	11240	
A 70 3_57.7	57.7	31	41025	22.3	1325	10420	20.8	44300	16.0	1542	11240	
A 70 3_66.9	66.9	26.9	41025	19.2	1323	10420	17.9	44300	13.8	1540	11240	
A 70 3_72.5	72.5	24.8	42043	18.2	1343	10454	16.6	44300	12.8	1564	11240	
A 70 3_79.3	79.3	22.7	41025	16.2	1331	10881	15.1	44300	11.7	1549	11240	
A 70 3_85.9	85.9	21.0	43813	16.0	1351	11038	14.0	44300	10.8	1573	11240	
A 70 3_96.2	96.2	18.7	42928	14.0	1341	11240	12.5	44300	9.6	1561	11240	
A 70 3_104.2	104.2	17.3	44300	13.3	1359	11240	11.5	44300	8.9	1574	11240	
A 70 3_120.6	120.6	14.9	44300	11.5	1349	11240	10.0	44300	7.7	1574	11240	
A 70 3_130.7	130.7	13.8	44300	10.6	1366	11240	9.2	44300	7.1	1574	11240	386
A 70 3_141.9	141.9	12.7	44300	9.8	1355	11240	8.5	44300	6.5	1574	11240	387
A 70 3_153.7	153.7	11.7	33230	6.8	1413	11240	7.8	37532	5.1	1574	11240	
A 70 4_169.8	169.8	10.6	44300	8.4	514	11240	7.1	44300	5.6	599	11240	
A 70 4_183.9	183.9	9.8	44300	7.7	545	11240	6.5	44300	5.1	634	11240	
A 70 4_220.3	220.3	8.2	44300	6.4	553	11240	5.4	44300	4.3	644	11240	
A 70 4_238.6	238.6	7.5	44300	5.9	565	11240	5.0	44300	4.0	658	11240	
A 70 4_292.0	292.0	6.2	44300	4.9	570	11240	4.1	44300	3.2	663	11240	
A 70 4_316.4	316.4	5.7	44300	4.5	582	11240	3.8	44300	3.0	677	11240	
A 70 4_369.4	369.4	4.9	44300	3.8	580	11240	3.2	44300	2.6	675	11240	
A 70 4_400.2	400.2	4.5	44300	3.5	592	11240	3.0	44300	2.4	689	11240	
A 70 4_475.8	475.8	3.8	44300	3.0	590	11240	2.5	44300	2.0	687	11240	
A 70 4_515.4	515.4	3.5	44300	2.8	600	11240	2.3	44300	1.8	699	11240	
A 70 4_595.0	595.0	3.0	44300	2.4	596	11240	2.0	44300	1.6	694	11240	
A 70 4_644.6	644.6	2.8	44300	2.2	606	11240	1.9	44300	1.5	706	11240	
A 70 4_705.1	705.1	2.6	44300	2.0	600	11240	1.7	44300	1.3	699	11240	
A 70 4_763.9	763.9	2.4	44300	1.9	610	11240	1.6	44300	1.2	710	11240	
A 70 4_855.3	855.3	2.1	44300	1.7	604	11240	1.4	44300	1.1	703	11240	
A 70 4_926.5	926.5	1.9	44300	1.5	612	11240	1.3	44300	1.0	713	11240	
A 70 4_1072	1072	1.7	44300	1.3	606	11240	1.1	44300	0.88	706	11240	
A 70 4_1161	1161	1.6	44300	1.2	616	11240	1.0	44300	0.82	718	11240	
A 70 4_1242	1242	1.4	44300	1.1	608	11240	0.97	44300	0.76	708	11240	
A 70 4_1346	1346	1.3	44300	1.1	619	11240	0.89	44300	0.70	720	11240	
A 70 4_1583	1583	1.1	44300	0.90	610	11240	0.76	44300	0.60	710	11240	
A 70 4_1715	1715	1.0	44300	0.83	621	11240	0.70	44300	0.55	722	11240	



A 80 — 70800 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 80 3_9.8	9.8	184	31965	102	—	6697	122	36176	77	—	7556	
A 80 3_10.7	10.7	168	35243	103	—	6739	112	39887	78	—	7603	
A 80 3_12.3	12.3	146	35243	90	—	7093	98	39887	68	—	8003	
A 80 3_13.3	13.3	135	35243	83	259	7344	90	39887	63	273	8285	
A 80 3_15.5	15.5	116	33604	68	351	7844	77	38032	51	411	8850	
A 80 3_16.7	16.7	108	36883	69	324	7907	72	41742	52	347	8921	
A 80 3_19.3	19.3	93	36063	59	420	8387	62	40814	44	446	9462	
A 80 3_20.9	20.9	86	39341	59	375	8470	57	44525	45	413	9556	
A 80 3_22.6	22.6	80	51226	71	1173	8011	53	57975	54	1384	9038	
A 80 3_24.5	24.5	73	55324	71	1175	8053	49	62613	53	1386	9086	
A 80 3_28.2	28.2	64	54095	60	1199	8595	43	61221	45	1415	9697	
A 80 3_30.6	30.6	59	52865	54	1235	8971	39	59830	41	1458	10121	
A 80 3_35.5	35.5	51	57373	51	1207	9242	34	64932	38	1424	10427	
A 80 3_38.5	38.5	47	62291	51	1207	9284	31	70497	38	1424	10474	
A 80 3_44.5	44.5	40	61061	43	1221	9910	27.0	69106	32	1441	11180	
A 80 3_48.2	48.2	37	65569	43	1225	9993	24.9	70800	31	1446	11275	
A 80 3_55.2	55.2	33	64750	37	1217	10598	21.7	70800	27	1436	11957	
A 80 3_59.8	59.8	30	65569	34	1241	10911	20.1	70800	25	1465	12310	
A 80 3_66.8	66.8	26.9	65569	31	1237	11391	18.0	70800	22	1460	12852	
A 80 3_72.4	72.4	24.9	65569	28	1264	11787	16.6	70800	20	1491	13299	
A 80 3_82.3	82.3	21.9	65569	25	1254	12371	14.6	70800	18.0	1479	13958	
A 80 3_89.2	89.2	20.2	69039	24	1278	12809	13.5	70800	16.6	1507	14452	
A 80 3_96.0	96.0	18.8	66383	22	1260	13143	12.5	70800	15.4	1486	14612	
A 80 3_104.0	104.0	17.3	70800	21	1284	13561	11.5	70800	14.2	1515	14612	
A 80 3_116.0	116.0	15.5	70800	19.1	1268	13561	10.3	70800	12.8	1496	14612	394
A 80 3_125.6	125.6	14.3	70800	17.7	1292	13561	9.6	70800	11.8	1524	14612	395
A 80 3_144.7	144.7	12.4	70800	15.4	1278	13561	8.3	70800	10.2	1507	14612	
A 80 3_156.8	156.8	11.5	70800	14.2	1300	13561	7.7	70800	9.4	1534	14612	
A 80 4_171.3	171.3	10.5	70800	13.3	—	14612	7.0	70800	8.8	292	14612	
A 80 4_214.7	214.7	8.4	70800	10.6	—	14612	5.6	70800	7.1	332	14612	
A 80 4_232.6	232.6	7.7	70800	9.8	—	14612	5.2	70800	6.5	430	14612	
A 80 4_277.3	277.3	6.5	70800	8.2	388	14612	4.3	70800	5.5	458	14612	
A 80 4_300.4	300.4	6.0	70800	7.6	461	14612	4.0	70800	5.0	544	14612	
A 80 4_354.0	354.0	5.1	70800	6.4	441	14612	3.4	70800	4.3	520	14612	
A 80 4_383.5	383.5	4.7	70800	5.9	509	14612	3.1	70800	3.9	601	14612	
A 80 4_442.1	442.1	4.1	70800	5.1	489	14612	2.7	70800	3.4	577	14612	
A 80 4_478.9	478.9	3.8	70800	4.7	537	14612	2.5	70800	3.2	634	14612	
A 80 4_560.5	560.5	3.2	70800	4.1	529	14612	2.1	70800	2.7	624	14612	
A 80 4_607.2	607.2	3.0	70800	3.7	547	14612	2.0	70800	2.5	646	14612	
A 80 4_703.5	703.5	2.6	70800	3.2	541	14612	1.7	70800	2.2	639	14612	
A 80 4_762.1	762.1	2.4	70800	3.0	555	14612	1.6	70800	2.0	655	14612	
A 80 4_829.5	829.5	2.2	70800	2.7	547	14612	1.4	70800	1.8	646	14612	
A 80 4_898.7	898.7	2.0	70800	2.5	559	14612	1.3	70800	1.7	660	14612	
A 80 4_1001	1001	1.8	70800	2.3	551	14612	1.2	70800	1.5	650	14612	
A 80 4_1085	1085	1.7	70800	2.1	563	14612	1.1	70800	1.4	665	14612	
A 80 4_1237	1237	1.5	70800	1.8	553	14612	0.97	70800	1.2	653	14612	
A 80 4_1340	1340	1.3	70800	1.7	565	14612	0.90	70800	1.1	667	14612	
A 80 4_1438	1438	1.3	70800	1.6	557	14612	0.83	70800	1.1	658	14612	
A 80 4_1558	1558	1.2	70800	1.5	569	14612	0.77	70800	0.97	672	14612	

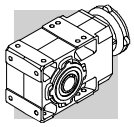
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



A 90 — 123900 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
A 90 3_9.7	9.7	186	74175	240	1095	7310	124	80103	173	1308	8230	
A 90 3_10.5	10.5	171	80322	240	1097	7289	114	86741	173	1310	8207	
A 90 3_12.6	12.6	143	85650	213	950	7665	95	96934	161	1135	8630	
A 90 3_13.7	13.7	131	91387	209	1050	7707	88	103427	158	1199	8677	
A 90 3_15.6	15.6	115	89748	180	1073	8229	77	101572	136	1282	9265	
A 90 3_16.9	16.9	107	97124	180	1079	8208	71	109920	136	1289	9241	
A 90 3_19.4	19.4	93	94665	153	1061	8834	62	101788	110	1268	9947	
A 90 3_21.0	21.0	86	101632	152	1093	8855	57	109754	109	1306	9970	
A 90 3_22.3	22.3	81	99583	140	2419	9168	54	112703	106	2891	10323	
A 90 3_24.1	24.1	75	107779	140	2419	9148	50	121979	106	2891	10300	
A 90 3_29.1	29.1	62	106550	115	2459	10004	41	120588	87	2938	11264	
A 90 3_31.5	31.5	57	114746	114	2459	10004	38	123900	82	2938	11264	
A 90 3_35.8	35.8	50	112697	99	2479	10672	34	123900	72	2962	12016	
A 90 3_38.8	38.8	46	114746	93	2518	11006	31	123900	67	3009	12392	
A 90 3_44.6	44.6	40	114746	81	2518	11696	26.9	123900	58	3009	13168	
A 90 3_48.3	48.3	37	114746	75	2538	12113	24.8	123900	54	3033	13639	
A 90 3_55.0	55.0	33	114746	65	2538	12823	21.8	123900	47	3033	14438	
A 90 3_59.6	59.6	30	119933	63	2578	13262	20.1	123900	43	3080	14932	
A 90 3_68.8	68.8	26.2	119933	55	2578	14076	17.4	123900	38	3080	15849	
A 90 3_74.5	74.5	24.2	123900	52	2598	14557	16.1	123900	35	3104	16390	
A 90 3_80.4	80.4	22.4	123900	48	2578	15016	14.9	123900	32	3080	16860	
A 90 3_87.1	87.1	20.7	123900	45	2617	15517	13.8	123900	30	3128	16860	
A 90 3_98.6	98.6	18.3	123900	39	2598	15664	12.2	123900	26	3104	16860	
A 90 3_106.8	106.8	16.9	123900	36	2637	15664	11.2	123900	24	3151	16860	
A 90 3_116.9	116.9	15.4	123900	33	2617	15664	10.3	123900	22	3128	16860	
A 90 3_126.6	126.6	14.2	107779	27	2657	16051	9.5	121979	20	3175	16860	402 403
A 90 3_139.4	139.4	12.9	104501	24	2657	16748	8.6	118269	17.7	3175	16860	
A 90 3_151.0	151.0	11.9	113107	23	2657	16860	7.9	123900	17.2	3175	16860	
A 90 4_166.1	166.1	10.8	123900	24	—	16860	7.2	123900	16.0	—	16860	
A 90 4_180.0	180.0	10.0	123900	22	—	16860	6.7	123900	14.7	—	16860	
A 90 4_209.0	209.0	8.6	123900	19.0	—	16860	5.7	123900	12.7	—	16860	
A 90 4_226.4	226.4	8.0	123900	17.6	—	16860	5.3	123900	11.7	—	16860	
A 90 4_281.4	281.4	6.4	123900	14.1	—	16860	4.3	123900	9.4	—	16860	
A 90 4_304.9	304.9	5.9	123900	13.0	—	16860	3.9	123900	8.7	—	16860	
A 90 4_355.8	355.8	5.1	123900	11.2	—	16860	3.4	123900	7.4	—	16860	
A 90 4_385.4	385.4	4.7	123900	10.3	—	16860	3.1	123900	6.9	161	16860	
A 90 4_449.2	449.2	4.0	123900	8.8	—	16860	2.7	123900	5.9	—	16860	
A 90 4_486.6	486.6	3.7	123900	8.2	—	16860	2.5	123900	5.4	225	16860	
A 90 4_555.3	555.3	3.2	123900	7.2	—	16860	2.2	123900	4.8	175	16860	
A 90 4_601.6	601.6	3.0	123900	6.6	—	16860	2.0	123900	4.4	284	16860	
A 90 4_707.9	707.9	2.5	123900	5.6	—	16860	1.7	123900	3.7	249	16860	
A 90 4_766.9	766.9	2.3	123900	5.2	—	16860	1.6	123900	3.5	353	16860	
A 90 4_865.1	865.1	2.1	123900	4.6	—	16860	1.4	123900	3.1	277	16860	
A 90 4_937.2	937.2	1.9	123900	4.2	—	16860	1.3	123900	2.8	377	16860	
A 90 4_1025	1025	1.8	123900	3.9	—	16860	1.2	123900	2.6	315	16860	
A 90 4_1111	1111	1.6	123900	3.6	—	16860	1.1	123900	2.4	412	16860	
A 90 4_1222	1222	1.5	123900	3.3	—	16860	0.98	123900	2.2	327	16860	
A 90 4_1324	1324	1.4	123900	3.0	—	16860	0.91	123900	2.0	424	16860	
A 90 4_1507	1507	1.2	123900	2.6	—	16860	0.80	123900	1.8	341	16860	
A 90 4_1632	1632	1.1	123900	2.4	—	16860	0.74	123900	1.6	436	16860	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



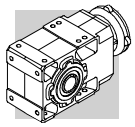
40 MOTOR AVAILABILITY

Please be aware that motor-gearbox combinations resulting from following charts are purely based on geometrical compatibility.

When selecting a gearmotor, refer to procedure specified at paragraph 12 and observe particularly the condition $S \geq f_s$.

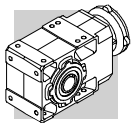
(C 39)

		IEC_ BN BE BX (IM B5)											
		P63	P71	P80	P90	P100	P112	P132	P160	P180	P200	P225	P250
A 05 2		5.5_91.6	5.5_51.3	5.5_51.3									
A 10 2		5.5_91.6	5.5_91.6	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9						
A 20 2		7.3_92.3 ⛀ (10.3)	7.3_92.3 ⛀ (10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9						
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9						
A 30 2		9.3_97.5 ⛀ (10.5 ; 13.6_16.3)	9.3_97.5 ⛀ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5						
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8						
A 35 2		9.3_95.6 ⛀ (13.1_20.4)	9.3_95.6 ⛀ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_11.8					
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2						
A 41 2		11.7_79.2 ⛀ (13.8_17.8)	11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1					
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8						
A 50 2		20.9	20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9			
A 50 3		51.7_190.6	51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4			
A 50 4	i =	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2						
A 55 2				13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2			
A 55 3		64.3_194.2	64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9			
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0						
A 60 2				10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6			
A 60 3		65.0_185.8	65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3			
A 60 4		208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4						
A 70 3				66.9_153.7	66.9_153.7	66.9_153.7	66.9_153.7	15.4_153.7 ⛀ (23.5_30.1)	9.4_153.7	9.4_153.7	9.4_38.4 ⛀ (19.7_21.3)		
A 70 4		292.0_1715	292.0_1715	169.8_1715	169.8_1715	169.8_1715	169.8_1715	169.8_644.6					
A 80 3				82.3_156.8	82.3_156.8	82.3_156.8	82.3_156.8	19.3_156.8 ⛀ (22.6_38.5)	12.3_156.8 ⛀ (22.6_24.5)	9.8_156.8	9.8_104.0	9.8_104.0	
A 80 4		354.0_1558	354.0_1558	171.3_1558	171.3_1558	171.3_1558	171.3_1558	171.3_762.1					
A 90 3				98.6_151.0	98.6_151.0	98.6_151.0	98.6_151.0	55.0_151.0	19.4_151.0 ⛀ (22.3_38.8)	9.7_151.0	9.7_126.6	9.7_126.6	9.7_126.6
A 90 4		449.2_1632	449.2_1632	166.1_1632	166.1_1632	166.1_1632	166.1_1632	166.1_937.2	166.1_937.2	166.1_937.2			



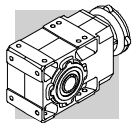
(C 40)

		NEMA Motor frame						
		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
	HP	0.16 ... 1	1.5 ... 2	3 ... 5	7.5 ... 10	15 ... 20	25 ... 30	40 ... 50
A 05 2		5.5_91.6	5.5_65.9					
A 10 2		5.5_91.6	5.5_65.9	5.5_65.9				
A 20 2		7.3_92.3 ⛀ (10.3)	5.4_79.9	5.4_79.9				
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9				
A 30 2		9.3_97.5 ⛀ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5				
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8				
A 35 2		9.3_95.6 ⛀ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8			
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2				
A 41 2		11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1			
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8				
A 50 2		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	
A 50 3		51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4	
A 50 4	i =	211.0_778.2	211.0_778.2	211.0_778.2				
A 55 2			13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2	
A 55 3		64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9	
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0				
A 60 2			10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6	
A 60 3		65.0_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3	
A 60 4		208.7_755.4	208.7_755.4	208.7_755.4				
A 70 3			66.9_153.7	66.9_153.7	15.4_153.7 ⛀ (23.5_30.1)	9.4_153.7	9.4_153.7	
A 70 4		292.0_1715	169.8_1715	169.8_1715	169.8_644.6			
A 80 3				82.3_156.8	19.3_156.8 ⛀ (22.6_38.5)	12.3_156.8 ⛀ (22.6_24.5)	9.8_156.8	9.8_104.0
A 80 4		354.0_1558	171.3_1558	171.3_1558	171.3_762.1			
A 90 3				98.6_151.0	55.0_151.0	19.4_151.0 ⛀ (22.3_38.8)	9.7_151.0	9.7_126.6
A 90 4		449.2_1632	166.1_1632	166.1_1632	166.1_937.2	166.1_937.2	166.1_937.2	



(C 41)

		M05	M1	M2 - ME2 - MX2	ME3 - MX3	ME4 - MX4	ME5 - MX5
A 05 2		5.5_91.6	5.5_51.3	5.5_65.9			
A 10 2		5.5_91.6	5.5_51.3	5.5_65.9	5.5_65.9		
A 20 2		7.3_92.3 ⛀ (10.3)	7.3_63.1 ⛀ (10.3)	5.4_79.9	5.4_79.9		
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9		
A 30 2			9.3_76.5 ⛀ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5		
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8		
A 35 2			9.3_95.6 ⛀ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8	
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2		
A 41 2			11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1	
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8		
A 50 2			20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3			51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4
A 50 4	**i =**		211.0_778.2	211.0_778.2	211.0_778.2		
A 55 2				13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2
A 55 3			64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9
A 55 4			208.1_793.0	208.1_793.0	208.1_793.0		
A 60 2				10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6
A 60 3				25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4		
A 70 3				66.9_153.7	66.9_153.7	15.4_153.7 ⛀ (23.5_30.1)	15.4_153.7 ⛀ (23.5_30.1)
A 70 4			292.0_1715	169.8_1715	169.8_1715	169.8_644.6	
A 80 3					82.3_156.8	19.3_156.8 ⛀ (22.6_38.5)	19.3_156.8 ⛀ (22.6_38.5)
A 80 4			354.0_1558	171.3_1558	171.3_1558	171.3_762.1	
A 90 3					98.6_151.0	55.0_151.0	55.0_151.0
A 90 4			449.2_1632	166.1_1632	166.1_1632	166.1_937.2	



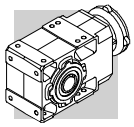
Motor adapters matching the most popular brands of servomotors are available for units size A05… A60. Dimensions of servomotor inputs are provided within the drawing section for each frame size. The code **SK** applies for inputs featuring a conventional keyway, while through the specification of the **SC** code the input shaft will feature a clamping device instead.

(C 42)

		SERVO INPUT					
		SK40A	SK60A	SK60B	SK80A	SK80B	SK80C
		SC40A	SC60A	SC60B	SC80A	SC80B	SC80C
A 05 2	i =	5.5_91.6	5.5_91.6	5.5_51.3	5.5_51.3		
A 10 2			5.5_91.6	5.5_51.3	5.5_51.3		5.5_65.9
A 20 2			7.3_92.3 ⛀ (10.3)	7.3_63.1 ⛀ (10.3)	7.3_63.1 ⛀ (10.3)		5.4_79.9
A 20 3			109.2_380.9	109.2_380.9	109.2_380.9		109.2_380.9
A 30 2			9.3_97.5 ⛀ (10.5 ; 13.6_16.3)	9.3_76.5 ⛀ (10.5 ; 13.6_16.3)	9.3_76.5 ⛀ (10.5 ; 13.6_16.3)		5.4_97.5
A 30 3			109.1_400.8	109.1_400.8	109.1_400.8		109.1_400.8
A 35 2			9.3_95.6 ⛀ (13.1_20.4)	9.3_95.6 ⛀ (13.1_20.4)	9.3_95.6 ⛀ (13.1_20.4)		5.4_95.6
A 35 3			105.5_393.2	105.5_393.2	105.5_393.2		105.5_393.2
A 41 2						11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2
A 41 3			92.8_376.8	92.8_376.8	92.8_376.8		92.8_376.8
A 50 2						20.9	7.7_20.9
A 50 3						51.7_190.6	24.0_190.6
A 50 4							211.0_778.2
A 55 2							13.1_19.2
A 55 3						64.3_194.2	23.8_194.2
A 55 4							208.1_793.0
A 60 2							10.3_20.6
A 60 3							25.7_185.8
A 60 4						208.7_755.4	208.7_755.4

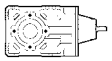
(C 43)

		SERVO INPUT								
		SK95A	SK95B	SK95C	SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC95A	SC95B	SC95C	SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
A 10 2	i =	5.5_51.3	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9				
A 20 2		7.3_63.1 ⛀ (10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9				
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9				
A 30 2		9.3_76.5 ⛀ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5			
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8				
A 35 2		9.3_95.6 ⛀ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6			
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2				
A 41 2		11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1	5.2_45.1	5.2_45.1
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8				
A 50 2		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3		51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4
A 50 4		211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2			
A 55 2			13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2
A 55 3		64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0			
A 60 2			10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6
A 60 3		65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3
A 60 4		208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4			

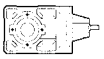


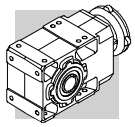
41 MOMENT OF INERTIA

The following charts indicate moment of inertia values J_r [lb•ft^2] referred to the gear unit high speed shaft. A key to the symbols used follows:

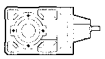
	Values under this icon refer to compact gear units, without motor. To obtain the overall moment of inertia for the gearmotor just add the value of the inertia for the specific compact motor, given in the relevant rating chart.
	Values under this symbol refer to gearboxes with IEC motor adaptor (IEC size...).
	Values under this symbol refer to gearboxes with NEMA motor adaptor (NEMA size...).
	This symbol refers to gearbox values.
	Values under this symbol refer to gear unit with servomotor input adapter.

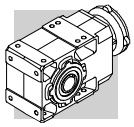
A 05

	i	J (•10^{-4}) [lb•ft^2]				
			 IEC			
			63	71	80	
A 05 2_5.5	5.5	17	23	24	33	—
A 05 2_6.3	6.3	13	20	20	28	—
A 05 2_7.2	7.2	11	18	18	26	—
A 05 2_8.5	8.5	8.5	15	15	24	—
A 05 2_9.6	9.6	6.9	13	14	22	—
A 05 2_10.6	10.6	12	18	19	26	—
A 05 2_12.3	12.3	4.3	11	11	19	—
A 05 2_13.9	13.9	8.3	15	15	23	—
A 05 2_16.4	16.4	6.4	13	14	22	—
A 05 2_18.6	18.6	5.2	12	12	20	—
A 05 2_21.4	21.4	3.8	10	11	19	—
A 05 2_23.8	23.8	3.3	9.7	10	19	—
A 05 2_25.5	25.5	3.1	9.3	10	18	—
A 05 2_28.6	28.6	2.6	9.0	9.5	18	—
A 05 2_32.2	32.2	2.1	8.5	9.3	17	—
A 05 2_35.1	35.1	1.9	8.3	8.8	17	—
A 05 2_40.9	40.9	1.7	7.8	8.5	17	—
A 05 2_45.4	45.4	1.2	7.6	8.3	16	—
A 05 2_51.3	51.3	0.95	7.4	8.1	16	—
A 05 2_58.6	58.6	0.95	7.4	—	—	—
A 05 2_65.9	65.9	0.71	7.1	—	—	—
A 05 2_76.4	76.4	0.47	6.9	—	—	—
A 05 2_91.6	91.6	0.47	6.6	—	—	—



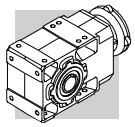
A 05

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
A 05 2_5.5	5.5	17	23	23	33	—
A 05 2_6.3	6.3	13	20	20	28	—
A 05 2_7.2	7.2	11	18	18	26	—
A 05 2_8.5	8.5	8,5	15	15	24	—
A 05 2_9.6	9.6	6,9	13	13	22	—
A 05 2_10.6	10.6	12	18	18	26	—
A 05 2_12.3	12.3	4,3	11	11	19	—
A 05 2_13.9	13.9	8,3	15	15	23	—
A 05 2_16.4	16.4	6,4	13	13	22	—
A 05 2_18.6	18.6	5,2	12	12	20	—
A 05 2_21.4	21.4	3,8	10	10	19	—
A 05 2_23.8	23.8	3,3	9,7	9,7	19	—
A 05 2_25.5	25.5	3,1	9,3	9,3	18	—
A 05 2_28.6	28.6	2,6	9,0	9,0	18	—
A 05 2_32.2	32.2	2,1	8,5	8,5	17	—
A 05 2_35.1	35.1	1,9	8,3	8,3	17	—
A 05 2_40.9	40.9	1,7	7,8	7,8	17	—
A 05 2_45.4	45.4	1,2	7,6	7,6	16	—
A 05 2_51.3	51.3	0,95	7,4	7,4	16	—
A 05 2_58.6	58.6	0,95	7,4	7,4	—	—
A 05 2_65.9	65.9	0,71	7,1	7,1	—	—
A 05 2_76.4	76.4	0,47	6,9	6,9	—	—
A 05 2_91.6	91.6	0,47	6,6	6,6	—	—

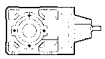


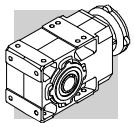
A 05

	i	J (•10-4) [lb•ft2]					
		SERVO					
		40A		60A		60B 80A	
		SK	SC	SK	SC	SK	SC
A 05 2_5.5	5.5	21	26	23	31	24	33
A 05 2_6.3	6.3	17	21	20	26	20	31
A 05 2_7.2	7.2	15	19	18	24	18	28
A 05 2_8.5	8.5	13	16	15	21	15	26
A 05 2_9.6	9.6	11	15	13	19	14	24
A 05 2_10.6	10.6	16	20	18	24	19	28
A 05 2_12.3	12.3	8,3	12	11	17	11	22
A 05 2_13.9	13.9	12	16	15	21	15	26
A 05 2_16.4	16.4	10	14	13	19	14	24
A 05 2_18.6	18.6	9,3	13	12	18	12	23
A 05 2_21.4	21.4	7,8	12	10	16	11	21
A 05 2_23.8	23.8	7,4	11	9,7	16	10	21
A 05 2_25.5	25.5	7,1	11	9,3	15	10	20
A 05 2_28.6	28.6	6,6	10	9,0	15	9,5	20
A 05 2_32.2	32.2	6,2	10	8,5	15	9,3	20
A 05 2_35.1	35.1	5,9	9,7	8,3	14	8,8	19
A 05 2_40.9	40.9	5,7	9,5	7,8	14	8,5	19
A 05 2_45.4	45.4	5,2	9,0	7,6	14	8,3	19
A 05 2_51.3	51.3	5,0	8,8	7,4	14	8,1	19
A 05 2_58.6	58.6	5,0	8,8	7,4	14	—	—
A 05 2_65.9	65.9	4,7	8,5	7,1	13	—	—
A 05 2_76.4	76.4	4,5	8,3	6,9	13	—	—
A 05 2_91.6	91.6	4,5	8,3	6,6	13	—	—

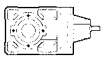


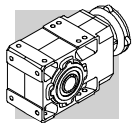
A 10

	i	J (•10-4) [lb•ft2]							
			IEC						
			63	71	80	90	100	112	
A 10 2_5.5	5.5	24	59	59	93	90	121	121	43
A 10 2_6.3	6.3	19	55	55	88	85	116	116	38
A 10 2_7.2	7.2	14	50	50	83	81	112	112	36
A 10 2_8.5	8.5	11	45	45	78	74	107	107	33
A 10 2_9.6	9.6	7.1	43	43	76	74	104	104	31
A 10 2_10.6	10.6	12	47	47	81	78	109	109	33
A 10 2_12.3	12.3	4.7	40	40	74	71	102	102	26
A 10 2_13.9	13.9	7.1	43	43	76	74	109	109	28
A 10 2_16.4	16.4	5.9	40	40	74	71	102	102	26
A 10 2_18.6	18.6	4.7	40	40	74	71	102	102	24
A 10 2_21.4	21.4	3.6	38	38	71	69	100	100	24
A 10 2_23.8	23.8	2.4	38	38	71	69	100	100	24
A 10 2_25.5	25.5	2.4	38	38	71	69	100	100	24
A 10 2_28.6	28.6	2.4	38	38	71	69	100	100	21
A 10 2_32.2	32.2	1.9	38	38	71	69	100	100	21
A 10 2_35.1	35.1	1.7	38	38	71	69	100	100	21
A 10 2_40.9	40.9	1.4	38	38	71	69	100	100	21
A 10 2_45.4	45.4	1.2	38	38	71	69	100	100	21
A 10 2_51.3	51.3	0.71	36	36	69	66	97	97	21
A 10 2_58.6	58.6	0.71	36	36	69	66	97	97	21
A 10 2_65.9	65.9	0.47	36	36	69	66	97	97	21
A 10 2_76.4	76.4	0.47	36	36	—	—	—	—	21
A 10 2_91.6	91.6	0.24	36	36	—	—	—	—	21



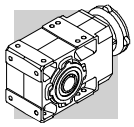
A 10

	i	J (•10^{-4}) [lb•ft^2]				
			NEMA			
			N56C	N140TC	N180TC	
A 10 2_5.5	5.5	24	59	59	93	43
A 10 2_6.3	6.3	19	55	55	88	38
A 10 2_7.2	7.2	14	50	50	83	36
A 10 2_8.5	8.5	11	45	45	78	33
A 10 2_9.6	9.6	7,1	43	43	76	31
A 10 2_10.6	10.6	12	47	47	81	33
A 10 2_12.3	12.3	4,7	40	40	74	26
A 10 2_13.9	13.9	7,1	43	43	76	28
A 10 2_16.4	16.4	5,9	40	40	74	26
A 10 2_18.6	18.6	4,7	40	40	74	24
A 10 2_21.4	21.4	3,6	38	38	71	24
A 10 2_23.8	23.8	2,4	38	38	71	24
A 10 2_25.5	25.5	2,4	38	38	71	24
A 10 2_28.6	28.6	2,4	38	38	71	21
A 10 2_32.2	32.2	1,9	38	38	71	21
A 10 2_35.1	35.1	1,7	38	38	71	21
A 10 2_40.9	40.9	1,4	38	38	71	21
A 10 2_45.4	45.4	1,2	38	38	71	21
A 10 2_51.3	51.3	0,7	36	36	69	21
A 10 2_58.6	58.6	0,71	36	36	69	21
A 10 2_65.9	65.9	0,47	36	36	69	21
A 10 2_76.4	76.4	0,47	36	36	—	21
A 10 2_91.6	91.6	0,24	36	36	—	21



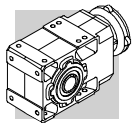
A 10

	i	J (•10-4) [lb•ft2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 10 2_5.5	5.5	31	36	31	40	90	102	93	104	90	114
A 10 2_6.3	6.3	26	31	26	36	85	97	88	100	85	109
A 10 2_7.2	7.2	21	26	21	31	81	93	83	95	81	104
A 10 2_8.5	8.5	17	23	18	28	78	88	78	90	74	97
A 10 2_9.6	9.6	14	20	14	24	74	85	76	88	74	97
A 10 2_10.6	10.6	18	24	19	28	78	90	81	93	78	102
A 10 2_12.3	12.3	11	17	12	22	71	83	74	85	71	95
A 10 2_13.9	13.9	14	20	14	24	74	85	76	88	74	97
A 10 2_16.4	16.4	12	19	13	23	74	83	74	85	71	95
A 10 2_18.6	18.6	11	17	12	22	71	83	74	85	71	95
A 10 2_21.4	21.4	10	16	10	21	71	81	71	83	69	93
A 10 2_23.8	23.8	8,8	15	9,3	20	69	81	71	83	69	93
A 10 2_25.5	25.5	8,8	15	9,3	20	69	81	71	83	69	93
A 10 2_28.6	28.6	8,8	15	9,3	20	69	81	71	83	69	93
A 10 2_32.2	32.2	8,3	14	8,8	19	69	78	71	83	69	93
A 10 2_35.1	35.1	8,1	14	8,5	19	69	78	71	83	69	93
A 10 2_40.9	40.9	7,8	14	8,3	19	69	78	71	83	69	93
A 10 2_45.4	45.4	7,6	14	8,1	19	69	78	71	83	69	93
A 10 2_51.3	51.3	7,1	13	7,6	18	69	78	69	81	66	90
A 10 2_58.6	58.6	7,1	13	—	—	—	—	69	81	66	90
A 10 2_65.9	65.9	6,9	13	—	—	—	—	69	81	66	90
A 10 2_76.4	76.4	6,9	13	—	—	—	—	—	—	—	—
A 10 2_91.6	91.6	6,6	13	—	—	—	—	—	—	—	—

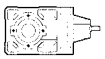


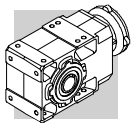
A 20

	i	J (•10-4) [lb•ft2]							
			IEC						
			63	71	80	90	100	112	
A 20 2_5.4	5.4	57	—	—	126	123	154	154	102
A 20 2_6.5	6.5	45	—	—	114	112	142	142	90
A 20 2_7.3	7.3	33	69	69	102	100	131	131	78
A 20 2_8.4	8.4	26	62	62	95	93	123	123	71
A 20 2_9.4	9.4	21	57	57	90	88	119	119	66
A 20 2_10.3	10.3	28	—	—	97	95	126	126	71
A 20 2_12.0	12.0	12	47	47	81	78	109	109	57
A 20 2_14.1	14.1	17	52	52	85	83	114	114	62
A 20 2_16.2	16.2	13	47	47	81	78	109	109	59
A 20 2_18.1	18.1	9.5	45	45	78	76	107	107	57
A 20 2_21.2	21.2	8.3	43	43	76	74	104	104	55
A 20 2_23.1	23.1	7.1	43	43	76	74	104	104	52
A 20 2_26.5	26.5	5.9	40	40	74	71	102	102	50
A 20 2_29.2	29.2	4.7	40	40	74	71	102	102	50
A 20 2_31.3	31.3	4.7	40	40	74	71	102	102	50
A 20 2_35.4	35.4	4.7	40	40	74	71	102	102	50
A 20 2_39.6	39.6	2.4	38	38	71	69	100	100	47
A 20 2_43.2	43.2	2.4	38	38	71	69	100	100	47
A 20 2_48.3	48.3	2.4	38	38	71	69	100	100	47
A 20 2_53.7	53.7	2.4	38	38	71	69	100	100	47
A 20 2_63.1	63.1	2.4	38	38	71	69	100	100	47
A 20 2_71.0	71.0	1.2	36	36	69	66	97	97	47
A 20 2_79.9	79.9	0.71	36	36	69	66	97	97	47
A 20 2_92.3	92.3	0.47	36	36	—	—	—	—	47
A 20 3_109.2	109.2	0.47	36	36	69	66	97	97	21
A 20 3_120.5	120.5	0.47	36	36	69	66	97	97	21
A 20 3_129.1	129.1	0.47	36	36	69	66	97	97	21
A 20 3_146.1	146.1	0.47	36	36	69	66	97	97	21
A 20 3_163.4	163.4	0.24	36	36	69	66	97	97	21
A 20 3_178.3	178.3	0.24	36	36	69	66	97	97	21
A 20 3_199.2	199.2	0.24	36	36	69	66	97	97	21
A 20 3_221.3	221.3	0.24	36	36	69	66	97	97	21
A 20 3_260.5	260.5	0.24	36	36	69	66	97	97	21
A 20 3_292.8	292.8	0.24	36	36	69	66	97	97	21
A 20 3_329.4	329.4	0.24	36	36	69	66	97	97	21
A 20 3_380.9	380.9	0.24	36	36	69	66	97	97	21



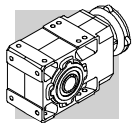
A 20

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
A 20 2_5.4	5.4	57	—	—	126	102
A 20 2_6.5	6.5	45	—	—	114	90
A 20 2_7.3	7.3	33	69	69	102	78
A 20 2_8.4	8.4	26	62	62	95	71
A 20 2_9.4	9.4	21	57	57	90	66
A 20 2_10.3	10.3	28	—	—	97	71
A 20 2_12.0	12.0	12	47	47	81	57
A 20 2_14.1	14.1	17	52	52	85	62
A 20 2_16.2	16.2	13	47	47	81	59
A 20 2_18.1	18.1	9,5	45	45	78	57
A 20 2_21.2	21.2	8,3	43	43	76	55
A 20 2_23.1	23.1	7,1	43	43	76	52
A 20 2_26.5	26.5	5,9	40	40	74	50
A 20 2_29.2	29.2	4,7	40	40	74	50
A 20 2_31.3	31.3	4,7	40	40	74	50
A 20 2_35.4	35.4	4,7	40	40	74	50
A 20 2_39.6	39.6	2,4	38	38	71	47
A 20 2_43.2	43.2	2,4	38	38	71	47
A 20 2_48.3	48.3	2,4	38	38	71	47
A 20 2_53.7	53.7	2,4	38	38	71	47
A 20 2_63.1	63.1	2,4	38	38	71	47
A 20 2_71.0	71.0	1,2	36	36	69	47
A 20 2_79.9	79.9	0,71	36	36	69	47
A 20 2_92.3	92.3	0,47	36	36	—	47
A 20 3_109.2	109.2	0,47	36	36	69	21
A 20 3_120.5	120.5	0,47	36	36	69	21
A 20 3_129.1	129.1	0,47	36	36	69	21
A 20 3_146.1	146.1	0,47	36	36	69	21
A 20 3_163.4	163.4	0,24	36	36	69	21
A 20 3_178.3	178.3	0,24	36	36	69	21
A 20 3_199.2	199.2	0,24	36	36	69	21
A 20 3_221.3	221.3	0,24	36	36	69	21
A 20 3_260.5	260.5	0,24	36	36	69	21
A 20 3_292.8	292.8	0,24	36	36	69	21
A 20 3_329.4	329.4	0,24	36	36	69	21
A 20 3_380.9	380.9	0,24	36	36	69	21

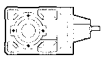


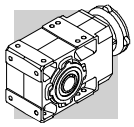
A 20

	i	J (•10-4) [lb•ft2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 20 2_5.4	5.4	—	—	—	—	—	—	126	138	123	147
A 20 2_6.5	6.5	—	—	—	—	—	—	114	126	112	135
A 20 2_7.3	7.3	40	45	40	50	100	112	102	114	100	123
A 20 2_8.4	8.4	33	38	33	43	93	109	95	107	93	116
A 20 2_9.4	9.4	28	33	28	38	88	100	90	102	88	112
A 20 2_10.3	10.3	—	—	—	—	—	—	97	109	95	119
A 20 2_12.0	12.0	18	24	19	28	78	90	81	93	78	102
A 20 2_14.1	14.1	23	28	23	33	83	95	85	97	83	107
A 20 2_16.2	16.2	19	26	20	31	81	90	81	93	78	102
A 20 2_18.1	18.1	16	22	16	26	76	88	78	90	76	100
A 20 2_21.2	21.2	15	21	15	26	76	85	76	88	74	97
A 20 2_23.1	23.1	14	20	14	24	74	85	76	88	74	97
A 20 2_26.5	26.5	12	19	13	23	74	83	74	85	71	95
A 20 2_29.2	29.2	11	17	12	22	71	83	74	85	71	95
A 20 2_31.3	31.3	11	17	12	22	71	83	74	85	71	95
A 20 2_35.4	35.4	11	17	12	22	71	83	74	85	71	95
A 20 2_39.6	39.6	8,8	15	9,3	20	69	81	71	83	69	93
A 20 2_43.2	43.2	8,8	15	9,3	20	69	81	71	83	69	93
A 20 2_48.3	48.3	8,8	15	9,3	20	69	81	71	83	69	93
A 20 2_53.7	53.7	8,8	15	9,3	20	69	81	71	83	69	93
A 20 2_63.1	63.1	8,8	15	9,3	20	69	81	71	83	69	93
A 20 2_71.0	71.0	7,6	14	—	—	—	—	69	81	66	90
A 20 2_79.9	79.9	7,1	13	—	—	—	—	69	81	66	90
A 20 2_92.3	92.3	6,9	13	—	—	—	—	—	—	—	—
A 20 3_109.2	109.2	6,9	13	7,4	18	66	78	69	81	66	90
A 20 3_120.5	120.5	6,9	13	7,4	18	66	78	69	81	66	90
A 20 3_129.1	129.1	6,9	13	7,4	18	66	78	69	81	66	90
A 20 3_146.1	146.1	6,9	13	7,4	18	66	78	69	81	66	90
A 20 3_163.4	163.4	6,6	13	7,1	18	66	78	69	81	66	90
A 20 3_178.3	178.3	6,6	13	7,1	18	66	78	69	81	66	90
A 20 3_199.2	199.2	6,6	13	7,1	18	66	78	69	81	66	90
A 20 3_221.3	221.3	6,6	13	7,1	18	66	78	69	81	66	90
A 20 3_260.5	260.5	6,6	13	7,1	18	66	78	69	81	66	90
A 20 3_292.8	292.8	6,6	13	7,1	18	66	78	69	81	66	90
A 20 3_329.4	329.4	6,6	13	7,1	18	66	78	69	81	66	90
A 20 3_380.9	380.9	6,6	13	7,1	18	66	78	69	81	66	90

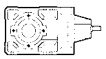


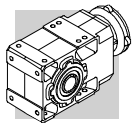
A 30

	i	J (•10-4) [lb•ft2]							
			IEC						
			63	71	80	90	100	112	
A 30 2_5.4	5.4	107	—	—	176	173	204	204	164
A 30 2_6.4	6.4	81	—	—	157	157	185	185	142
A 30 2_7.0	7.0	69	—	—	138	138	166	166	123
A 30 2_8.5	8.5	52	—	—	121	121	150	150	109
A 30 2_9.3	9.3	38	74	74	107	104	135	135	95
A 30 2_10.5	10.5	55	—	—	123	121	152	152	109
A 30 2_11.8	11.8	26	62	62	95	93	123	123	81
A 30 2_13.6	13.6	36	—	—	104	102	133	133	93
A 30 2_16.3	16.3	28	—	—	97	95	126	126	83
A 30 2_18.0	18.0	21	57	57	90	88	119	119	76
A 30 2_20.5	20.5	17	52	52	85	83	114	114	74
A 30 2_22.8	22.8	14	50	50	83	81	112	112	71
A 30 2_26.5	26.5	12	47	47	81	78	109	109	69
A 30 2_29.3	29.3	9.5	45	45	78	76	107	107	66
A 30 2_33.4	33.4	8.3	43	43	76	74	104	104	64
A 30 2_36.6	36.6	7.1	43	43	76	74	104	104	64
A 30 2_39.3	39.3	5.9	40	40	74	71	102	102	62
A 30 2_43.4	43.4	4.7	40	40	74	71	102	102	62
A 30 2_48.3	48.3	4.7	40	40	74	71	102	102	62
A 30 2_52.7	52.7	4.7	40	40	74	71	102	102	59
A 30 2_59.4	59.4	2.4	38	38	71	69	100	100	59
A 30 2_66.0	66.0	2.4	38	38	71	69	100	100	59
A 30 2_76.5	76.5	2.4	38	38	71	69	100	100	59
A 30 2_86.7	86.7	2.4	38	38	71	69	100	100	59
A 30 2_97.5	97.5	2.4	38	38	71	69	100	100	57
A 30 3_109.1	109.1	2.4	38	38	71	69	100	100	21
A 30 3_120.5	120.5	2.4	38	38	71	69	100	100	21
A 30 3_137.4	137.4	2.4	38	38	71	69	100	100	21
A 30 3_150.7	150.7	2.4	38	38	71	69	100	100	21
A 30 3_161.4	161.4	2.4	38	38	71	69	100	100	21
A 30 3_178.5	178.5	2.4	38	38	71	69	100	100	21
A 30 3_198.5	198.5	2.4	38	38	71	69	100	100	21
A 30 3_216.6	216.6	2.4	38	38	71	69	100	100	21
A 30 3_244.3	244.3	2.4	38	38	71	69	100	100	21
A 30 3_271.5	271.5	2.4	38	38	71	69	100	100	21
A 30 3_314.5	314.5	2.4	38	38	71	69	100	100	21
A 30 3_356.3	356.3	1.4	38	38	71	69	100	100	21
A 30 3_400.8	400.8	0.95	36	38	69	66	97	97	21



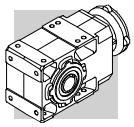
A 30

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
A 30 2_5.4	5.4	107	—	—	176	164
A 30 2_6.4	6.4	81	—	—	157	142
A 30 2_7.0	7.0	69	—	—	138	123
A 30 2_8.5	8.5	52	—	—	121	109
A 30 2_9.3	9.3	38	74	74	107	95
A 30 2_10.5	10.5	55	—	—	123	109
A 30 2_11.8	11.8	26	62	62	95	81
A 30 2_13.6	13.6	36	—	—	104	93
A 30 2_16.3	16.3	28	—	—	97	83
A 30 2_18.0	18.0	21	57	57	90	76
A 30 2_20.5	20.5	17	52	52	85	74
A 30 2_22.8	22.8	14	50	50	83	71
A 30 2_26.5	26.5	12	47	47	81	69
A 30 2_29.3	29.3	9,5	45	45	78	66
A 30 2_33.4	33.4	8,3	43	43	76	64
A 30 2_36.6	36.6	7,1	43	43	76	64
A 30 2_39.3	39.3	5,9	40	40	74	62
A 30 2_43.4	43.4	4,7	40	40	74	62
A 30 2_48.3	48.3	4,7	40	40	74	62
A 30 2_52.7	52.7	4,7	40	40	74	59
A 30 2_59.4	59.4	2,4	38	38	71	59
A 30 2_66.0	66.0	2,4	38	38	71	59
A 30 2_76.5	76.5	2,4	38	38	71	59
A 30 2_86.7	86.7	2,4	38	38	71	59
A 30 2_97.5	97.5	2,4	38	38	71	57
A 30 3_109.1	109.1	2,4	38	38	71	21
A 30 3_120.5	120.5	2,4	38	38	71	21
A 30 3_137.4	137.4	2,4	38	38	71	21
A 30 3_150.7	150.7	2,4	38	38	71	21
A 30 3_161.4	161.4	2,4	38	38	71	21
A 30 3_178.5	178.5	2,4	38	38	71	21
A 30 3_198.5	198.5	2,4	38	38	71	21
A 30 3_216.6	216.6	2,4	38	38	71	21
A 30 3_244.3	244.3	2,4	38	38	71	21
A 30 3_271.5	271.5	2,4	38	38	71	21
A 30 3_314.5	314.5	2,4	38	38	71	21
A 30 3_356.3	356.3	1,4	38	38	71	21
A 30 3_400.8	400.8	0,95	36	36	69	21



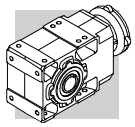
A 30

	i	J (•10-4) [lb•ft2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 30 2_5.4	5.4	—	—	—	—	—	—	176	187	173	197	173	197
A 30 2_6.4	6.4	—	—	—	—	—	—	157	168	157	180	157	180
A 30 2_7.0	7.0	—	—	—	—	—	—	138	150	138	161	138	161
A 30 2_8.5	8.5	—	—	—	—	—	—	121	133	121	145	121	145
A 30 2_9.3	9.3	45	50	45	55	104	116	107	119	104	128	104	128
A 30 2_10.5	10.5	—	—	—	—	—	—	123	135	121	145	121	145
A 30 2_11.8	11.8	33	38	33	43	93	104	95	107	93	116	93	116
A 30 2_13.6	13.6	—	—	—	—	—	—	104	116	102	126	102	126
A 30 2_16.3	16.3	—	—	—	—	—	—	97	109	95	119	95	119
A 30 2_18.0	18.0	28	33	28	38	88	100	90	102	88	112	88	112
A 30 2_20.5	20.5	23	28	23	33	83	95	85	97	83	107	83	107
A 30 2_22.8	22.8	21	26	21	31	81	93	83	95	81	104	81	104
A 30 2_26.5	26.5	18	24	19	28	78	90	81	93	78	102	78	102
A 30 2_29.3	29.3	16	22	16	26	76	88	78	90	76	100	76	100
A 30 2_33.4	33.4	15	21	15	26	76	85	76	88	74	97	74	97
A 30 2_36.6	36.6	14	20	14	24	74	85	76	88	74	97	74	97
A 30 2_39.3	39.3	12	19	13	23	74	83	74	85	71	95	71	95
A 30 2_43.4	43.4	11	17	12	22	71	83	74	85	71	95	71	95
A 30 2_48.3	48.3	11	17	12	22	71	83	74	85	71	95	71	95
A 30 2_52.7	52.7	11	17	12	22	71	83	74	85	71	95	71	95
A 30 2_59.4	59.4	8,8	15	9,3	20	69	81	71	83	69	93	69	93
A 30 2_66.0	66.0	8,8	15	9,3	20	69	81	71	83	69	93	69	93
A 30 2_76.5	76.5	8,8	15	9,3	20	69	81	71	83	69	93	69	93
A 30 2_86.7	86.7	8,8	15	—	—	—	—	71	83	69	93	69	93
A 30 2_97.5	97.5	8,8	15	—	—	—	—	71	83	69	93	69	93
A 30 3_109.1	109.1	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_120.5	120.5	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_137.4	137.4	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_150.7	150.7	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_161.4	161.4	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_178.5	178.5	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_198.5	198.5	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_216.6	216.6	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_244.3	244.3	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_271.5	271.5	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_314.5	314.5	8,8	15	9,3	20	69	81	71	83	69	93	—	—
A 30 3_356.3	356.3	7,8	14	8,3	19	69	78	71	83	69	93	—	—
A 30 3_400.8	400.8	7,4	14	7,8	18	69	78	69	81	66	90	—	—

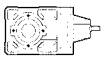


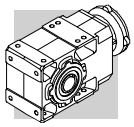
A 35

	i	J (•10-4) [lb•ft2]								
			IEC							
			63	71	80	90	100	112	132	
A 35 2_5.4	5.4	173	—	—	237	235	261	261	570	223
A 35 2_6.4	6.4	128	—	—	192	190	218	218	522	176
A 35 2_7.0	7.0	109	—	—	173	171	199	199	498	157
A 35 2_8.5	8.5	78	—	—	145	140	168	168	475	128
A 35 2_9.3	9.3	66	83	83	133	128	157	157	451	116
A 35 2_10.6	10.6	50	69	69	116	114	142	142	451	100
A 35 2_11.8	11.8	43	59	59	109	104	135	135	427	93
A 35 2_13.1	13.1	71	—	—	135	133	161	161	—	119
A 35 2_15.5	15.5	52	—	—	119	116	145	145	—	102
A 35 2_17.0	17.0	47	—	—	112	109	138	138	—	95
A 35 2_20.4	20.4	38	—	—	102	100	128	128	—	85
A 35 2_22.5	22.5	31	47	47	97	93	121	121	—	81
A 35 2_25.7	25.7	23	40	40	88	85	114	114	—	71
A 35 2_28.4	28.4	20	38	38	85	83	112	112	—	69
A 35 2_33.2	33.2	16	33	33	83	78	107	107	—	66
A 35 2_36.6	36.6	14	31	31	78	76	104	104	—	62
A 35 2_41.8	41.8	11	28	28	76	74	102	102	—	59
A 35 2_45.8	45.8	10	26	26	76	74	102	102	—	59
A 35 2_49.1	49.1	9.0	26	26	74	71	100	100	—	57
A 35 2_54.3	54.3	7.8	26	24	74	71	100	100	—	57
A 35 2_60.4	60.4	6.9	24	24	71	69	97	97	—	55
A 35 2_65.8	65.8	5.9	24	24	71	69	97	97	—	55
A 35 2_74.3	74.3	5.0	23	22	71	66	97	97	—	55
A 35 2_82.5	82.5	4.3	22	21	69	66	95	95	—	52
A 35 2_95.6	95.6	3.6	21	21	69	66	95	95	—	52
A 35 3_105.5	105.5	2.6	21	21	69	66	95	95	—	19
A 35 3_116.9	116.9	2.6	21	21	69	66	95	95	—	19
A 35 3_136.3	136.3	2.4	21	20	69	66	95	95	—	19
A 35 3_150.6	150.6	2.1	20	20	69	66	95	95	—	18
A 35 3_171.8	171.8	1.9	20	20	69	66	95	95	—	18
A 35 3_188.3	188.3	1.9	20	20	69	64	95	95	—	18
A 35 3_201.8	201.8	1.9	20	20	69	64	95	95	—	18
A 35 3_223.2	223.2	1.9	20	20	69	64	95	95	—	18
A 35 3_248.1	248.1	1.7	20	20	69	64	95	95	—	18
A 35 3_270.7	270.7	1.7	20	20	69	64	95	95	—	18
A 35 3_305.4	305.4	1.7	20	20	69	64	95	95	—	18
A 35 3_339.3	339.3	1.7	20	20	69	64	95	95	—	18
A 35 3_393.2	393.2	1.7	20	20	69	64	93	93	—	18



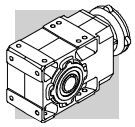
A 35

	i	J (•10-4) [lb•ft2]					
			NEMA				
			N56C	N140TC	N180TC	N210TC	
A 35 2_5.4	5.4	173	—	—	237	570	223
A 35 2_6.4	6.4	128	—	—	192	522	176
A 35 2_7.0	7.0	109	—	—	173	498	157
A 35 2_8.5	8.5	78	—	—	145	475	128
A 35 2_9.3	9.3	66	83	83	133	451	116
A 35 2_10.6	10.6	50	69	69	116	451	100
A 35 2_11.8	11.8	43	59	59	109	427	93
A 35 2_13.1	13.1	71	—	—	135	—	119
A 35 2_15.5	15.5	52	—	—	119	—	102
A 35 2_17.0	17.0	47	—	—	112	—	95
A 35 2_20.4	20.4	38	—	—	102	—	85
A 35 2_22.5	22.5	31	47	47	97	—	81
A 35 2_25.7	25.7	23	40	40	88	—	71
A 35 2_28.4	28.4	20	38	38	85	—	69
A 35 2_33.2	33.2	16	33	33	83	—	66
A 35 2_36.6	36.6	14	31	31	78	—	62
A 35 2_41.8	41.8	11	28	28	76	—	59
A 35 2_45.8	45.8	10	26	26	76	—	59
A 35 2_49.1	49.1	9,0	26	26	74	—	57
A 35 2_54.3	54.3	7,8	26	26	74	—	57
A 35 2_60.4	60.4	6,9	24	24	71	—	55
A 35 2_65.8	65.8	5,9	24	24	71	—	55
A 35 2_74.3	74.3	5,0	23	23	71	—	55
A 35 2_82.5	82.5	4,3	22	22	69	—	52
A 35 2_95.6	95.6	3,6	21	21	69	—	52
A 35 3_105.5	105.5	2,6	21	21	69	—	19
A 35 3_116.9	116.9	2,6	21	21	69	—	19
A 35 3_136.3	136.3	2,4	21	21	69	—	19
A 35 3_150.6	150.6	2,1	20	20	69	—	18
A 35 3_171.8	171.8	1,9	20	20	69	—	18
A 35 3_188.3	188.3	1,9	20	20	69	—	18
A 35 3_201.8	201.8	1,9	20	20	69	—	18
A 35 3_223.2	223.2	1,9	20	20	69	—	18
A 35 3_248.1	248.1	1,7	20	20	69	—	18
A 35 3_270.7	270.7	1,7	20	20	69	—	18
A 35 3_305.4	305.4	1,7	20	20	69	—	18
A 35 3_339.3	339.3	1,7	20	20	69	—	18
A 35 3_393.2	393.2	1,7	20	20	69	—	18



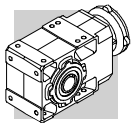
A 35

	i	J (•10-4) [lb•ft2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 35 2_5.4	5.4	—	—	—	—	—	—	237	261	235	259	235	261
A 35 2_6.4	6.4	—	—	—	—	—	—	192	204	190	214	190	214
A 35 2_7.0	7.0	—	—	—	—	—	—	173	185	171	195	171	195
A 35 2_8.5	8.5	—	—	—	—	—	—	145	157	140	164	140	164
A 35 2_9.3	9.3	74	78	74	83	133	145	133	145	128	152	128	152
A 35 2_10.6	10.6	57	62	57	66	116	128	116	128	114	138	114	138
A 35 2_11.8	11.8	50	55	50	59	109	121	109	121	104	128	104	128
A 35 2_13.1	13.1	—	—	—	—	—	—	135	147	133	157	133	157
A 35 2_15.5	15.5	—	—	—	—	—	—	119	131	116	140	116	140
A 35 2_17.0	17.0	—	—	—	—	—	—	112	123	109	133	109	133
A 35 2_20.4	20.4	—	—	—	—	—	—	102	114	100	123	100	123
A 35 2_22.5	22.5	38	43	38	47	97	109	97	109	93	116	93	116
A 35 2_25.7	25.7	28	36	31	40	90	100	88	100	85	109	85	109
A 35 2_28.4	28.4	26	33	28	38	88	97	85	97	83	107	83	107
A 35 2_33.2	33.2	23	28	23	33	83	93	83	95	78	102	78	102
A 35 2_36.6	36.6	20	26	21	31	81	90	78	90	76	100	76	100
A 35 2_41.8	41.8	18	24	18	28	78	88	76	88	74	97	74	97
A 35 2_45.8	45.8	16	23	17	26	76	88	76	88	74	97	74	97
A 35 2_49.1	49.1	15	22	16	26	76	85	74	85	71	95	71	95
A 35 2_54.3	54.3	14	20	15	26	76	85	74	85	71	95	71	95
A 35 2_60.4	60.4	13	19	14	24	74	83	71	83	69	93	69	93
A 35 2_65.8	65.8	12	19	13	23	74	83	71	83	69	93	69	93
A 35 2_74.3	74.3	11	18	12	22	71	83	71	83	66	90	66	90
A 35 2_82.5	82.5	11	17	11	22	71	81	69	81	66	90	66	90
A 35 2_95.6	95.6	10	16	10	21	71	81	69	81	66	90	66	90
A 35 3_105.5	105.5	9,0	15	9,5	20	69	81	69	81	66	90	—	—
A 35 3_116.9	116.9	9,0	15	9,5	20	69	81	69	81	66	90	—	—
A 35 3_136.3	136.3	8,8	15	9,3	20	69	81	69	81	66	90	—	—
A 35 3_150.6	150.6	8,5	15	9,0	19	69	78	69	81	66	90	—	—
A 35 3_171.8	171.8	8,3	14	8,8	19	69	78	69	81	66	90	—	—
A 35 3_188.3	188.3	8,3	14	8,8	19	69	78	69	81	64	88	—	—
A 35 3_201.8	201.8	8,3	14	8,8	19	69	78	69	81	64	88	—	—
A 35 3_223.2	223.2	8,3	14	8,8	19	69	78	69	81	64	88	—	—
A 35 3_248.1	248.1	8,1	14	8,5	19	69	78	69	81	64	88	—	—
A 35 3_270.7	270.7	8,1	14	8,5	19	69	78	69	81	64	88	—	—
A 35 3_305.4	305.4	8,1	14	8,5	19	69	78	69	81	64	88	—	—
A 35 3_339.3	339.3	8,1	14	8,5	19	69	78	69	81	64	88	—	—
A 35 3_393.2	393.2	8,1	14	8,5	19	69	78	69	81	64	88	—	—



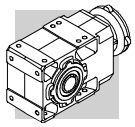
A 41

	i	J (•10-4) [lb•ft2]								
			IEC							
			63	71	80	90	100	112	132	
A 41 2_5.2	5.2	308	—	—	380	380	403	403	759	546
A 41 2_7.1	7.1	173	—	—	237	237	261	261	617	427
A 41 2_8.3	8.3	140	—	—	209	206	237	237	593	380
A 41 2_9.2	9.2	107	—	—	176	173	204	204	546	356
A 41 2_10.1	10.1	140	—	—	209	206	237	237	593	380
A 41 2_11.7	11.7	69	104	104	138	135	166	166	522	308
A 41 2_13.8	13.8	85	—	—	154	152	183	183	546	332
A 41 2_16.1	16.1	69	—	—	138	135	166	166	522	308
A 41 2_17.8	17.8	52	—	—	121	119	150	150	498	261
A 41 2_22.7	22.7	36	71	71	104	102	133	133	475	261
A 41 2_28.3	28.3	26	62	62	95	93	123	123	475	237
A 41 2_35.9	35.9	40	76	76	109	107	138	138	475	233
A 41 2_45.1	45.1	36	71	71	104	102	133	133	475	228
A 41 2_48.3	48.3	33	69	69	102	100	131	131	—	225
A 41 2_53.1	53.1	33	69	69	102	100	131	131	—	225
A 41 2_58.8	58.8	31	66	66	100	97	128	128	—	223
A 41 2_64.2	64.2	31	66	66	100	97	128	128	—	223
A 41 2_71.3	71.3	28	64	64	97	95	126	126	—	221
A 41 2_79.2	79.2	28	64	64	97	95	126	126	—	221
A 41 3_92.8	92.8	26	62	62	95	93	123	123	—	218
A 41 3_115.9	115.9	4.7	40	40	69	71	102	102	—	50
A 41 3_146.9	146.9	2.4	38	38	66	69	100	100	—	50
A 41 3_184.4	184.4	2.4	38	38	66	69	100	100	—	50
A 41 3_197.5	197.5	2.4	38	38	66	69	100	100	—	47
A 41 3_217.4	217.4	2.4	38	38	66	69	100	100	—	47
A 41 3_240.6	240.6	2.4	38	38	66	69	100	100	—	47
A 41 3_262.5	262.5	2.4	38	38	66	69	100	100	—	47
A 41 3_291.7	291.7	2.4	38	38	66	69	100	100	—	47
A 41 3_324.2	324.2	2.4	38	38	66	69	100	100	—	47
A 41 3_376.8	376.8	2.4	38	38	66	69	100	100	—	47



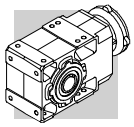
A 41

	i	J (•10-4) [lb•ft2]					
			NEMA				
			N56C	N140TC	N180TC	N210TC	
A 41 2_5.2	5.2	308	—	—	380	759	546
A 41 2_7.1	7.1	173	—	—	237	617	427
A 41 2_8.3	8.3	140	—	—	209	593	380
A 41 2_9.2	9.2	107	—	—	176	546	356
A 41 2_10.1	10.1	140	—	—	209	593	380
A 41 2_11.7	11.7	69	104	104	138	522	308
A 41 2_13.8	13.8	85	—	—	154	546	332
A 41 2_16.1	16.1	69	—	—	138	522	308
A 41 2_17.8	17.8	52	—	—	121	498	261
A 41 2_22.7	22.7	36	71	71	104	475	261
A 41 2_28.3	28.3	26	62	62	95	475	237
A 41 2_35.9	35.9	40	76	76	109	475	233
A 41 2_45.1	45.1	36	71	71	104	475	228
A 41 2_48.3	48.3	33	69	69	102	—	225
A 41 2_53.1	53.1	33	69	69	102	—	225
A 41 2_58.8	58.8	31	66	66	100	—	223
A 41 2_64.2	64.2	31	66	66	100	—	223
A 41 2_71.3	71.3	28	64	64	97	—	221
A 41 2_79.2	79.2	28	64	64	97	—	221
A 41 3_92.8	92.8	26	62	62	95	—	218
A 41 3_115.9	115.9	4,7	40	40	69	—	50
A 41 3_146.9	146.9	2,4	38	38	66	—	50
A 41 3_184.4	184.4	2,4	38	38	66	—	50
A 41 3_197.5	197.5	2,4	38	38	66	—	47
A 41 3_217.4	217.4	2,4	38	38	66	—	47
A 41 3_240.6	240.6	2,4	38	38	66	—	47
A 41 3_262.5	262.5	2,4	38	38	66	—	47
A 41 3_291.7	291.7	2,4	38	38	66	—	47
A 41 3_324.2	324.2	2,4	38	38	66	—	47
A 41 3_376.8	376.8	2,4	38	38	66	—	47



A 41

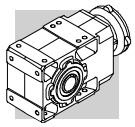
	i	J (•10-4) [lb•ft2]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 41 2_5.2	5.2	—	—	—	—	—	—	—	—	380	392	380	403	380	403	712	759	759	878
A 41 2_7.1	7.1	—	—	—	—	—	—	—	—	237	249	237	261	237	261	570	641	617	736
A 41 2_8.3	8.3	—	—	—	—	—	—	—	—	209	221	206	230	206	230	546	593	593	712
A 41 2_9.2	9.2	—	—	—	—	—	—	—	—	176	187	173	197	173	197	498	570	546	664
A 41 2_10.1	10.1	—	—	—	—	—	—	—	—	209	221	206	230	206	230	546	593	593	712
A 41 2_11.7	11.7	—	—	—	—	135	147	135	147	138	150	135	159	135	159	475	522	522	641
A 41 2_13.8	13.8	—	—	—	—	—	—	—	—	154	166	152	176	152	176	498	546	546	664
A 41 2_16.1	16.1	—	—	—	—	—	—	—	—	138	150	135	159	135	159	475	522	522	641
A 41 2_17.8	17.8	—	—	—	—	—	—	—	—	121	133	119	142	119	142	451	522	498	617
A 41 2_22.7	22.7	—	—	—	—	102	114	102	114	104	116	102	126	102	126	427	498	475	593
A 41 2_28.3	28.3	—	—	—	—	93	104	93	104	95	107	93	116	93	116	427	498	475	593
A 41 2_35.9	35.9	—	—	—	—	107	119	107	119	109	121	107	131	107	131	451	498	475	593
A 41 2_45.1	45.1	—	—	—	—	102	114	102	114	104	116	102	126	102	126	427	498	475	593
A 41 2_48.3	48.3	—	—	—	—	100	112	100	112	102	114	100	123	100	123	—	—	—	—
A 41 2_53.1	53.1	—	—	—	—	100	112	100	112	102	114	100	123	100	123	—	—	—	—
A 41 2_58.8	58.8	—	—	—	—	97	109	97	109	100	112	97	121	97	121	—	—	—	—
A 41 2_64.2	64.2	—	—	—	—	97	109	97	109	100	112	97	121	97	121	—	—	—	—
A 41 2_71.3	71.3	—	—	—	—	95	107	95	107	97	109	95	119	95	119	—	—	—	—
A 41 2_79.2	79.2	—	—	—	—	95	107	95	107	97	109	95	119	95	119	—	—	—	—
A 41 3_92.8	92.8	33	38	33	43	—	—	93	104	95	107	93	116	—	—	—	—	—	—
A 41 3_115.9	115.9	11	17	12	22	—	—	71	83	69	81	71	95	—	—	—	—	—	—
A 41 3_146.9	146.9	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_184.4	184.4	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_197.5	197.5	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_217.4	217.4	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_240.6	240.6	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_262.5	262.5	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_291.7	291.7	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_324.2	324.2	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—
A 41 3_376.8	376.8	9	15	9,3	20	—	—	69	81	66	78	69	93	—	—	—	—	—	—



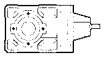
A 50

	i	J (•10-4) [lb•ft2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
A 50 2_7.7	7.7	356	—	—	427	427	451	451	807	2207	2159	570
A 50 2_9.7	9.7	237	—	—	308	308	332	332	688	2112	2041	451
A 50 2_13.1	13.1	150	—	—	218	216	237	237	593	2017	1946	356
A 50 2_16.6	16.6	100	—	—	166	166	195	195	546	1946	1898	308
A 50 2_20.9	20.9	66	100	100	135	133	164	164	522	1922	1875	285
A 50 3_24.0	24.0	142	—	—	211	209	237	237	593	1993	1946	356
A 50 3_26.4	26.4	138	—	—	206	204	235	235	593	1993	1946	356
A 50 3_32.4	32.4	95	—	—	161	161	192	192	546	1946	1898	308
A 50 3_35.6	35.6	93	—	—	159	159	190	190	546	1946	1898	308
A 50 3_40.9	40.9	64	—	—	133	131	161	161	522	1922	1875	285
A 50 3_45.0	45.0	62	—	—	131	128	159	159	522	1922	1875	285
A 50 3_51.7	51.7	45	81	81	112	112	142	142	498	1898	1851	261
A 50 3_56.8	56.8	45	78	78	112	109	140	140	498	1898	1851	261
A 50 3_63.9	63.9	33	69	66	100	100	131	131	475	1898	1827	261
A 50 3_70.2	70.2	33	66	66	100	97	128	128	475	1898	1827	237
A 50 3_81.5	81.5	21	57	57	90	88	119	119	475	1875	1827	237
A 50 3_89.5	89.5	21	57	57	88	88	119	119	475	1875	1827	237
A 50 3_99.5	99.5	14	50	50	83	81	112	112	475	1875	1827	230
A 50 3_109.4	109.4	14	50	50	83	81	112	112	475	1875	1827	230
A 50 3_118.0	118.0	12	47	47	81	78	109	109	—	—	—	228
A 50 3_129.7	129.7	12	47	47	81	78	109	109	—	—	—	228
A 50 3_140.6	140.6	9.5	43	43	76	76	104	104	—	—	—	223
A 50 3_154.6	154.6	9.5	43	43	76	76	104	104	—	—	—	223
A 50 3_173.4	173.4	7.1	40	40	74	71	102	102	—	—	—	221
A 50 3_190.6	190.6	4.7	40	40	74	71	102	102	—	—	—	221

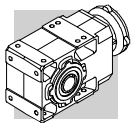
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 50

	i	J (•10-4) [lb•ft2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
A 50 2_7.7	7.7	356	—	—	427	807	2207	2159	570
A 50 2_9.7	9.7	237	—	—	308	688	2112	2041	451
A 50 2_13.1	13.1	150	—	—	218	593	2017	1946	356
A 50 2_16.6	16.6	100	—	—	166	546	1946	1898	308
A 50 2_20.9	20.9	66	100	100	135	522	1922	1875	285
A 50 3_24.0	24.0	142	—	—	211	593	1993	1946	356
A 50 3_26.4	26.4	138	—	—	206	593	1993	1946	356
A 50 3_32.4	32.4	95	—	—	161	546	1946	1898	308
A 50 3_35.6	35.6	93	—	—	159	546	1946	1898	308
A 50 3_40.9	40.9	64	—	—	133	522	1922	1875	285
A 50 3_45.0	45.0	62	—	—	131	522	1922	1875	285
A 50 3_51.7	51.7	45	81	81	112	498	1898	1851	261
A 50 3_56.8	56.8	45	78	78	112	498	1898	1851	261
A 50 3_63.9	63.9	33	69	69	100	475	1898	1827	261
A 50 3_70.2	70.2	33	66	66	100	475	1898	1827	237
A 50 3_81.5	81.5	21	57	57	90	475	1875	1827	237
A 50 3_89.5	89.5	21	57	57	88	475	1875	1827	237
A 50 3_99.5	99.5	14	50	50	83	475	1875	1827	230
A 50 3_109.4	109.4	14	50	50	83	475	1875	1827	230
A 50 3_118.0	118.0	12	47	47	81	—	—	—	228
A 50 3_129.7	129.7	12	47	47	81	—	—	—	228
A 50 3_140.6	140.6	9,5	43	43	76	—	—	—	223
A 50 3_154.6	154.6	9,5	43	43	76	—	—	—	223
A 50 3_173.4	173.4	7,1	40	40	74	—	—	—	221
A 50 3_190.6	190.6	4,7	40	40	74	—	—	—	221

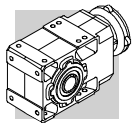
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 50

	i	J (•10-4) [lb•ft2]									
		SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 50 2_7.7	7.7	—	—	427	451	427	451	759	807	807	925
A 50 2_9.7	9.7	—	—	308	332	308	332	641	688	688	807
A 50 2_13.1	13.1	—	—	218	230	216	237	546	617	593	712
A 50 2_16.6	16.6	—	—	166	178	166	190	498	570	546	664
A 50 2_20.9	20.9	133	145	135	147	133	157	475	522	522	641
A 50 3_24.0	24.0	—	—	211	223	209	233	546	593	593	712
A 50 3_26.4	26.4	—	—	206	218	204	228	546	593	593	712
A 50 3_32.4	32.4	—	—	161	173	161	185	498	546	546	664
A 50 3_35.6	35.6	—	—	159	171	159	183	498	546	546	664
A 50 3_40.9	40.9	—	—	133	145	131	154	475	522	522	641
A 50 3_45.0	45.0	—	—	131	142	128	152	475	522	522	641
A 50 3_51.7	51.7	112	121	112	123	112	135	451	498	498	617
A 50 3_56.8	56.8	112	121	112	123	109	133	451	498	498	617
A 50 3_63.9	63.9	100	112	100	123	100	123	427	498	475	593
A 50 3_70.2	70.2	100	112	100	123	97	121	427	498	475	593
A 50 3_81.5	81.5	88	97	90	102	88	112	427	475	475	593
A 50 3_89.5	89.5	88	97	88	100	88	112	427	475	475	593
A 50 3_99.5	99.5	81	93	83	95	81	104	427	475	475	593
A 50 3_109.4	109.4	81	93	83	95	81	104	427	475	475	593
A 50 3_118.0	118.0	78	90	81	95	78	102	—	—	—	—
A 50 3_129.7	129.7	78	90	81	95	78	102	—	—	—	—
A 50 3_140.6	140.6	76	88	76	88	76	100	—	—	—	—
A 50 3_154.6	154.6	76	88	76	88	76	100	—	—	—	—
A 50 3_173.4	173.4	74	85	74	85	71	95	—	—	—	—
A 50 3_190.6	190.6	71	83	74	85	71	95	—	—	—	—

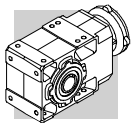
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



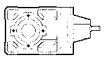
A 55

	i	J (•10-4) [lb•ft2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
A 55 2_4.9	4.9	1448	—	—	—	—	—	—	1827	2919	2848	1661
A 55 2_6.4	6.4	973	—	—	—	—	—	—	1353	2444	2373	1187
A 55 2_8.5	8.5	617	—	—	—	—	—	—	997	2088	2017	831
A 55 2_10.4	10.4	451	—	—	—	—	—	—	831	1922	1851	664
A 55 2_13.1	13.1	285	—	—	332	332	403	403	664	1756	1709	498
A 55 2_15.7	15.7	211	—	—	261	261	332	332	593	1685	1614	427
A 55 2_19.2	19.2	147	—	—	204	202	261	261	546	1614	1566	356
A 55 3_23.8	23.8	261	—	—	308	308	380	380	641	1732	1661	475
A 55 3_29.9	29.9	187	—	—	237	237	308	308	570	1661	1590	403
A 55 3_40.3	40.3	126	—	—	185	180	237	237	522	1614	1542	332
A 55 3_51.0	51.0	85	—	—	142	140	204	204	475	1566	1495	308
A 55 3_64.3	64.3	62	74	71	121	119	183	183	451	1542	1471	285
A 55 3_79.5	79.5	47	57	57	107	104	168	168	427	1519	1471	261
A 55 3_101.4	101.4	31	43	43	90	88	154	154	427	1519	1448	237
A 55 3_123.9	123.9	24	36	36	85	81	147	147	403	1495	1448	237
A 55 3_132.7	132.7	17	33	33	83	78	145	145	—	—	—	225
A 55 3_146.8	146.8	16	33	33	81	78	142	142	—	—	—	223
A 55 3_160.4	160.4	14	31	31	78	76	142	142	—	—	—	223
A 55 3_175.0	175.0	12	28	28	78	74	140	140	—	—	—	221
A 55 3_194.2	194.2	10	28	28	76	74	138	138	—	—	—	218

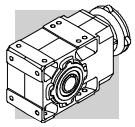
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 55

	i	J (•10-4) [lb•ft2]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
A 55 2_4.9	4.9	1448	—	—	—	1827	2919	2848	1661
A 55 2_6.4	6.4	973	—	—	—	1353	2444	2373	1187
A 55 2_8.5	8.5	617	—	—	—	997	2088	2017	831
A 55 2_10.4	10.4	451	—	—	—	831	1922	1851	664
A 55 2_13.1	13.1	285	—	—	332	664	1756	1709	498
A 55 2_15.7	15.7	211	—	—	261	593	1685	1614	427
A 55 2_19.2	19.2	147	—	—	204	546	1614	1566	356
A 55 3_23.8	23.8	261	—	—	308	641	1732	1661	475
A 55 3_29.9	29.9	187	—	—	237	570	1661	1590	403
A 55 3_40.3	40.3	126	—	—	185	522	1614	1542	332
A 55 3_51.0	51.0	85	—	—	142	475	1566	1495	308
A 55 3_64.3	64.3	62	74	74	121	451	1542	1471	285
A 55 3_79.5	79.5	47	57	57	107	427	1519	1471	261
A 55 3_101.4	101.4	31	43	43	90	427	1519	1448	237
A 55 3_123.9	123.9	24	36	36	85	403	1495	1448	237
A 55 3_132.7	132.7	17	33	33	83	—	—	—	225
A 55 3_146.8	146.8	16	33	33	81	—	—	—	223
A 55 3_160.4	160.4	14	31	31	78	—	—	—	223
A 55 3_175.0	175.0	12	28	28	78	—	—	—	221
A 55 3_194.2	194.2	10	28	28	76	—	—	—	218

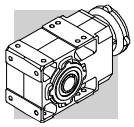
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 55

	i	J (•10-4) [lb•ft2]									
		SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 55 2_4.9	4.9	—	—	—	—	—	—	1851	1898	1827	1946
A 55 2_6.4	6.4	—	—	—	—	—	—	1376	1424	1353	1471
A 55 2_8.5	8.5	—	—	—	—	—	—	1020	1068	997	1115
A 55 2_10.4	10.4	—	—	—	—	—	—	854	902	831	949
A 55 2_13.1	13.1	—	—	332	356	332	356	688	736	664	783
A 55 2_15.7	15.7	—	—	261	285	261	285	617	664	593	712
A 55 2_19.2	19.2	—	—	204	216	202	225	546	617	546	664
A 55 3_23.8	23.8	—	—	308	332	308	332	664	712	641	759
A 55 3_29.9	29.9	—	—	237	261	237	261	593	641	570	688
A 55 3_40.3	40.3	—	—	185	197	180	204	522	593	522	641
A 55 3_51.0	51.0	—	—	142	154	140	164	498	546	475	593
A 55 3_64.3	64.3	128	140	121	133	119	142	475	522	451	570
A 55 3_79.5	79.5	114	126	107	119	104	128	451	498	427	546
A 55 3_101.4	101.4	97	109	90	102	88	112	427	498	427	546
A 55 3_123.9	123.9	90	102	85	97	81	104	427	475	403	522
A 55 3_132.7	132.7	83	95	83	95	78	102	—	—	—	—
A 55 3_146.8	146.8	83	93	81	93	78	102	—	—	—	—
A 55 3_160.4	160.4	81	90	78	90	76	100	—	—	—	—
A 55 3_175.0	175.0	78	90	78	90	74	97	—	—	—	—
A 55 3_194.2	194.2	78	88	76	88	74	97	—	—	—	—

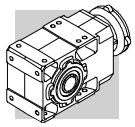
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 60

	i	J (•10-4) [lb•ft2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
A 60 2_7.9	7.9	854	—	—	—	—	—	—	1281	2705	2658	1353
A 60 2_10.3	10.3	546	—	—	593	593	641	641	973	2397	2349	1044
A 60 2_12.7	12.7	380	—	—	451	451	475	475	831	2231	2183	878
A 60 2_16.7	16.7	223	—	—	285	285	332	332	664	2088	2017	712
A 60 2_20.6	20.6	159	—	—	228	225	261	261	617	2017	1970	664
A 60 3_25.7	25.7	332	—	—	403	403	427	427	783	2183	2136	831
A 60 3_27.9	27.9	332	—	—	403	403	427	427	783	2183	2136	831
A 60 3_31.7	31.7	237	—	—	308	308	356	356	688	2112	2041	736
A 60 3_34.3	34.3	237	—	—	308	308	332	332	688	2112	2041	736
A 60 3_41.7	41.7	145	—	—	214	211	237	237	593	1993	1946	641
A 60 3_45.2	45.2	145	—	—	211	211	237	237	593	1993	1946	641
A 60 3_51.3	51.3	119	—	—	176	176	206	206	570	1970	1922	617
A 60 3_55.6	55.6	107	—	—	176	173	204	204	546	1970	1922	617
A 60 3_65.0	65.0	76	112	109	145	142	173	173	522	1946	1875	570
A 60 3_70.4	70.4	76	112	109	145	142	173	173	522	1922	1875	570
A 60 3_79.7	79.7	50	85	83	119	116	147	147	498	1898	1851	546
A 60 3_86.4	86.4	50	85	83	119	116	147	147	498	1898	1851	546
A 60 3_99.5	99.5	47	83	81	102	102	133	133	475	1898	1851	546
A 60 3_107.8	107.8	36	71	69	102	102	133	133	475	1898	1851	522
A 60 3_123.0	123.0	26	62	59	95	93	123	123	475	1875	1827	522
A 60 3_133.3	133.3	26	62	59	93	93	123	123	475	1875	1827	522
A 60 3_144.0	144.0	19	55	52	88	85	119	119	—	—	—	522
A 60 3_156.0	156.0	19	55	52	88	85	119	119	—	—	—	522
A 60 3_171.5	171.5	14	50	47	83	81	112	112	—	—	—	522
A 60 3_185.8	185.8	14	50	47	83	81	112	112	—	—	—	522

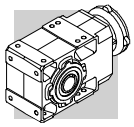
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 60

	i	J (•10-4) [lb•ft2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
A 60 2_7.9	7.9	854	—	—	—	1281	2705	2658	1353
A 60 2_10.3	10.3	546	—	—	593	973	2397	2349	1044
A 60 2_12.7	12.7	380	—	—	451	831	2231	2183	878
A 60 2_16.7	16.7	223	—	—	285	664	2088	2017	712
A 60 2_20.6	20.6	159	—	—	228	617	2017	1970	664
A 60 3_25.7	25.7	332	—	—	403	783	2183	2136	831
A 60 3_27.9	27.9	332	—	—	403	783	2183	2136	831
A 60 3_31.7	31.7	237	—	—	308	688	2112	2041	736
A 60 3_34.3	34.3	237	—	—	308	688	2112	2041	736
A 60 3_41.7	41.7	145	—	—	214	593	1993	1946	641
A 60 3_45.2	45.2	145	—	—	211	593	1993	1946	641
A 60 3_51.3	51.3	119	—	—	176	570	1970	1922	617
A 60 3_55.6	55.6	107	—	—	176	546	1970	1922	617
A 60 3_65.0	65.0	76	112	112	145	522	1946	1875	570
A 60 3_70.4	70.4	76	112	112	145	522	1922	1875	570
A 60 3_79.7	79.7	50	85	85	119	498	1898	1851	546
A 60 3_86.4	86.4	50	85	85	119	498	1898	1851	546
A 60 3_99.5	99.5	47	83	83	102	475	1898	1851	546
A 60 3_107.8	107.8	36	71	71	102	475	1898	1851	522
A 60 3_123.0	123.0	26	62	62	95	475	1875	1827	522
A 60 3_133.3	133.3	26	62	62	93	475	1875	1827	522
A 60 3_144.0	144.0	19	55	55	88	—	—	—	522
A 60 3_156.0	156.0	19	55	55	88	—	—	—	522
A 60 3_171.5	171.5	14	50	50	83	—	—	—	522
A 60 3_185.8	185.8	14	50	50	83	—	—	—	522

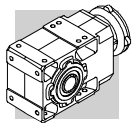
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 60

	i	J (•10-4) [lb•ft2]									
		SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 60 2_7.9	7.9	—	—	—	—	—	—	53	55	54	59
A 60 2_10.3	10.3	—	—	593	617	593	617	949	997	973	1092
A 60 2_12.7	12.7	—	—	451	475	451	475	783	831	831	949
A 60 2_16.7	16.7	—	—	285	308	285	308	617	688	664	783
A 60 2_20.6	20.6	—	—	228	237	225	237	570	617	617	736
A 60 3_25.7	25.7	—	—	403	427	403	427	736	783	783	902
A 60 3_27.9	27.9	—	—	403	427	403	427	736	783	783	902
A 60 3_31.7	31.7	—	—	308	332	308	332	641	688	688	807
A 60 3_34.3	34.3	—	—	308	332	308	332	641	688	688	807
A 60 3_41.7	41.7	—	—	214	225	211	235	546	617	593	712
A 60 3_45.2	45.2	—	—	211	223	211	235	546	617	593	712
A 60 3_51.3	51.3	—	—	176	187	176	199	522	570	570	688
A 60 3_55.6	55.6	—	—	176	187	173	197	498	570	546	664
A 60 3_65.0	65.0	142	154	145	157	142	166	475	546	522	641
A 60 3_70.4	70.4	142	154	145	157	142	166	475	546	522	641
A 60 3_79.7	79.7	116	128	119	131	116	140	451	522	498	617
A 60 3_86.4	86.4	116	128	119	131	116	140	451	522	498	617
A 60 3_99.5	99.5	114	126	102	114	102	126	451	498	475	593
A 60 3_107.8	107.8	102	114	102	114	102	126	427	498	475	593
A 60 3_123.0	123.0	93	104	95	107	93	116	427	498	475	593
A 60 3_133.3	133.3	93	104	93	104	93	116	427	498	475	593
A 60 3_144.0	144.0	85	97	88	100	85	109	—	—	—	—
A 60 3_156.0	156.0	85	97	88	100	85	109	—	—	—	—
A 60 3_171.5	171.5	81	93	83	95	81	104	—	—	—	—
A 60 3_185.8	185.8	81	93	83	95	81	104	—	—	—	—

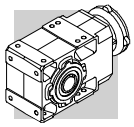
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 70

	i	J (•10-4) [lb•ft2]											
			IEC										
			80	90	100	112	132	160	180	200	225	250	
A 70 3_9.4	9.4	—	—	—	—	—	—	4438	4390	4604	—	—	3560
A 70 3_10.2	10.2	—	—	—	—	—	—	4343	4271	4509	—	—	3465
A 70 3_12.1	12.1	—	—	—	—	—	—	3560	3512	3726	—	—	2682
A 70 3_13.1	13.1	—	—	—	—	—	—	3488	3441	3654	—	—	2634
A 70 3_15.4	15.4	1068	—	—	—	—	1519	2943	2871	3821	—	—	2065
A 70 3_16.7	16.7	1044	—	—	—	—	1495	2895	2848	3061	—	—	2017
A 70 3_19.7	19.7	712	—	—	—	—	1163	2587	2539	—	—	—	1709
A 70 3_21.3	21.3	688	—	—	—	—	1139	2563	2515	—	—	—	1685
A 70 3_23.5	23.5	—	—	—	—	—	—	2753	2705	2919	—	—	1875
A 70 3_27.8	27.8	—	—	—	—	—	—	2800	2753	2966	—	—	1922
A 70 3_30.1	30.1	—	—	—	—	—	—	2776	2729	2943	—	—	1922
A 70 3_35.4	35.4	617	—	—	—	—	1068	2468	2420	2634	—	—	1590
A 70 3_38.4	38.4	593	—	—	—	—	1044	2468	2397	2634	—	—	1590
A 70 3_45.2	45.2	427	—	—	—	—	878	2302	2231	—	—	—	1400
A 70 3_49.0	49.0	427	—	—	—	—	878	2278	2231	—	—	—	1400
A 70 3_53.2	53.2	356	—	—	—	—	807	2207	2159	—	—	—	1329
A 70 3_57.7	57.7	356	—	—	—	—	807	2207	2159	—	—	—	1329
A 70 3_66.9	66.9	230	285	285	308	308	688	2088	2041	—	—	—	1210
A 70 3_72.5	72.5	228	285	285	308	308	664	2088	2041	—	—	—	1210
A 70 3_79.3	79.3	161	223	221	261	261	617	2017	1970	—	—	—	1139
A 70 3_85.9	85.9	159	221	221	261	261	617	2017	1970	—	—	—	1139
A 70 3_96.2	96.2	128	195	195	223	223	570	1993	1946	—	—	—	1115
A 70 3_104.2	104.2	128	195	192	223	223	570	1993	1922	—	—	—	1115
A 70 3_120.6	120.6	81	147	147	178	178	522	1946	1875	—	—	—	1068
A 70 3_130.7	130.7	81	147	147	176	176	522	1946	1875	—	—	—	1068
A 70 3_141.9	141.9	57	126	123	154	154	498	1922	1851	—	—	—	1044
A 70 3_153.7	153.7	57	123	123	154	154	498	1922	1851	—	—	—	1044

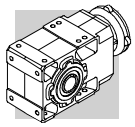
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



A 70

	i	J (•10-4) [lb•ft2]					
			NEMA				
			N180TC	N210TC	N250TC	N280TC	
A 70 3_9.4	9.4	—	—	—	4438	4390	3560
A 70 3_10.2	10.2	—	—	—	4343	4271	3465
A 70 3_12.1	12.1	—	—	—	3560	3512	2682
A 70 3_13.1	13.1	—	—	—	3488	3441	2634
A 70 3_15.4	15.4	1068	—	1519	2943	2871	2065
A 70 3_16.7	16.7	1044	—	1495	2895	2848	2017
A 70 3_19.7	19.7	712	—	1163	2587	2539	1709
A 70 3_21.3	21.3	688	—	1139	2563	2515	1685
A 70 3_23.5	23.5	—	—	—	2753	2705	1875
A 70 3_27.8	27.8	—	—	—	2800	2753	1922
A 70 3_30.1	30.1	—	—	—	2776	2729	1922
A 70 3_35.4	35.4	617	—	1068	2468	2420	1590
A 70 3_38.4	38.4	593	—	1044	2468	2397	1590
A 70 3_45.2	45.2	427	—	878	2302	2231	1400
A 70 3_49.0	49.0	427	—	878	2278	2231	1400
A 70 3_53.2	53.2	356	—	807	2207	2159	1329
A 70 3_57.7	57.7	356	—	807	2207	2159	1329
A 70 3_66.9	66.9	230	285	688	2088	2041	1210
A 70 3_72.5	72.5	228	285	664	2088	2041	1210
A 70 3_79.3	79.3	161	223	617	2017	1970	1139
A 70 3_85.9	85.9	159	221	617	2017	1970	1139
A 70 3_96.2	96.2	128	195	570	1993	1946	1115
A 70 3_104.2	104.2	128	195	570	1993	1922	1115
A 70 3_120.6	120.6	81	147	522	1946	1875	1068
A 70 3_130.7	130.7	81	147	522	1946	1875	1068
A 70 3_141.9	141.9	57	126	498	1922	1851	1044
A 70 3_153.7	153.7	57	123	498	1922	1851	1044

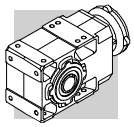
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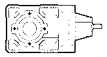
A 80

	i	J (•10-4) [lb•ft2]											
			IEC										
			80	90	100	112	132	160	180	200	225	250	
A 80 3_9.8	9.8	—	—	—	—	—	—	—	7594	7902	14499	—	6787
A 80 3_10.7	10.7	—	—	—	—	—	—	—	7333	7665	14262	—	6550
A 80 3_12.3	12.3	—	—	—	—	—	—	5672	5672	6004	12601	—	4865
A 80 3_13.3	13.3	—	—	—	—	—	—	5505	5529	5838	12435	—	4722
A 80 3_15.5	15.5	—	—	—	—	—	—	4438	4390	4604	11343	—	3560
A 80 3_16.7	16.7	—	—	—	—	—	—	4343	4271	4509	11248	—	3560
A 80 3_19.3	19.3	1637	—	—	—	—	2088	3488	3441	3654	10441	—	2634
A 80 3_20.9	20.9	1566	—	—	—	—	2017	3441	3370	3607	10370	—	2563
A 80 3_22.6	22.6	—	—	—	—	—	—	—	4865	5197	11770	—	4058
A 80 3_24.5	24.5	—	—	—	—	—	—	—	4817	5149	11723	—	4010
A 80 3_28.2	28.2	—	—	—	—	—	—	3916	3939	4248	10845	—	3132
A 80 3_30.6	30.6	—	—	—	—	—	—	3892	3892	4224	10821	—	3085
A 80 3_35.5	35.5	—	—	—	—	—	—	3322	3275	3488	10252	—	2468
A 80 3_38.5	38.5	—	—	—	—	—	—	3322	3251	3488	10228	—	2444
A 80 3_44.5	44.5	925	—	—	—	—	1376	2800	2729	2966	9729	—	1922
A 80 3_48.2	48.2	925	—	—	—	—	1376	2776	2729	2943	9729	—	2136
A 80 3_55.2	55.2	688	—	—	—	—	1139	2563	2492	3227	9468	—	1661
A 80 3_59.8	59.8	688	—	—	—	—	1139	2539	2492	3227	9468	—	1661
A 80 3_66.8	66.8	522	—	—	—	—	973	2397	2326	3037	9279	—	1495
A 80 3_72.4	72.4	522	—	—	—	—	973	2373	2326	3037	9279	—	1495
A 80 3_82.3	82.3	356	403	403	427	427	807	2231	2159	2848	9112	—	1329
A 80 3_89.2	89.2	356	403	403	427	427	807	2207	2159	2848	9160	—	1329
A 80 3_96.0	96.0	332	380	380	403	403	759	2183	2136	2824	9065	—	1305
A 80 3_104.0	104.0	308	380	380	403	403	759	2183	2112	2824	9065	—	1305
A 80 3_116.0	116.0	216	285	285	308	308	664	2065	2017	—	—	—	1187
A 80 3_125.6	125.6	216	285	285	308	308	664	2065	2017	—	—	—	1187
A 80 3_144.7	144.7	128	197	195	237	237	570	1993	1946	—	—	—	1115
A 80 3_156.8	156.8	128	71	69	100	100	451	1851	1804	—	—	—	973

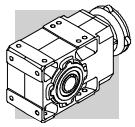
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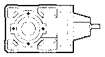
A 80

	i	J (•10-4) [lb•ft2]						
			NEMA					
			N180TC	N210TC	N250TC	N280TC	N320TC	
A 80 3_9.8	9.8	—	—	—	—	7594	14499	6787
A 80 3_10.7	10.7	—	—	—	—	7333	14262	6550
A 80 3_12.3	12.3	—	—	—	5672	5672	12601	4865
A 80 3_13.3	13.3	—	—	—	5505	5529	12435	4722
A 80 3_15.5	15.5	—	—	—	4438	4390	11343	3560
A 80 3_16.7	16.7	—	—	—	4343	4271	11248	3560
A 80 3_19.3	19.3	1637	—	2088	3488	3441	10441	2634
A 80 3_20.9	20.9	1566	—	2017	3441	3370	10370	2563
A 80 3_22.6	22.6	—	—	—	—	4865	11770	4058
A 80 3_24.5	24.5	—	—	—	—	4817	11723	4010
A 80 3_28.2	28.2	—	—	—	3916	3939	10845	3132
A 80 3_30.6	30.6	—	—	—	3892	3892	10821	3085
A 80 3_35.5	35.5	—	—	—	3322	3275	10252	2468
A 80 3_38.5	38.5	—	—	—	3322	3251	10228	2444
A 80 3_44.5	44.5	925	—	1376	2800	2729	9729	1922
A 80 3_48.2	48.2	925	—	1376	2776	2729	9729	2136
A 80 3_55.2	55.2	688	—	1139	2563	2492	9468	1661
A 80 3_59.8	59.8	688	—	1139	2539	2492	9468	1661
A 80 3_66.8	66.8	522	—	973	2397	2326	9279	1495
A 80 3_72.4	72.4	522	—	973	2373	2326	9279	1495
A 80 3_82.3	82.3	356	403	807	2231	2159	9112	1329
A 80 3_89.2	89.2	356	403	807	2207	2159	9160	1329
A 80 3_96.0	96.0	332	380	759	2183	2136	9065	1305
A 80 3_104.0	104.0	308	380	759	2183	2112	9065	1305
A 80 3_116.0	116.0	216	285	664	2065	2017	—	1187
A 80 3_125.6	125.6	216	285	664	2065	2017	—	1187
A 80 3_144.7	144.7	128	197	570	1993	1946	—	1115
A 80 3_156.8	156.8	128	71	451	1851	1804	—	973

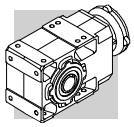
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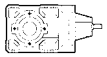
A 90

	i	J (•10-4) [lb•ft2]										
			IEC									
			80	90	100	112	132	160	180	200	225	250	
A 90 3_9.7	9.7	—	—	—	—	—	—	—	14167	14499	21096	21784	21310
A 90 3_10.5	10.5	—	—	—	—	—	—	—	13645	13977	20574	21262	20788
A 90 3_12.6	12.6	—	—	—	—	—	—	—	9540	9872	16445	17157	16682
A 90 3_13.7	13.7	—	—	—	—	—	—	—	9231	9563	16160	16849	16374
A 90 3_15.6	15.6	—	—	—	—	—	—	—	7261	7570	14167	14879	14404
A 90 3_16.9	16.9	—	—	—	—	—	—	—	7048	7380	13977	14665	14191
A 90 3_19.4	19.4	—	—	—	—	—	—	5600	5553	5766	12506	13265	12577
A 90 3_21.0	21.0	—	—	—	—	—	—	5482	5411	5648	12387	13123	12435
A 90 3_22.3	22.3	—	—	—	—	—	—	—	7736	8068	14665	15354	14879
A 90 3_24.1	24.1	—	—	—	—	—	—	—	7641	7973	14570	15259	14784
A 90 3_29.1	29.1	—	—	—	—	—	—	—	5766	6099	12696	13384	12909
A 90 3_31.5	31.5	—	—	—	—	—	—	—	5719	6028	12625	13336	12862
A 90 3_35.8	35.8	—	—	—	—	—	—	—	4770	5102	11699	12387	11913
A 90 3_38.8	38.8	—	—	—	—	—	—	—	4746	5055	11652	12364	11865
A 90 3_44.6	44.6	—	—	—	—	—	—	4010	3939	4177	10916	11652	10963
A 90 3_48.3	48.3	—	—	—	—	—	—	3987	3916	4153	10892	11628	10940
A 90 3_55.0	55.0	1566	—	—	—	—	2017	3417	3370	3583	10370	11106	10394
A 90 3_59.6	59.6	1566	—	—	—	—	1993	3417	3346	3583	10346	11106	10370
A 90 3_68.8	68.8	1139	—	—	—	—	1590	2990	2943	3654	9919	10655	9872
A 90 3_74.5	74.5	1115	—	—	—	—	1566	2990	2919	3654	9896	10655	9872
A 90 3_80.4	80.4	1020	—	—	—	—	1471	2871	2824	3536	9777	10513	9777
A 90 3_87.1	87.1	1020	—	—	—	—	1471	2871	2824	3512	9777	10513	9777
A 90 3_98.6	98.6	664	712	712	759	759	1115	2515	2468	3180	9421	10157	9468
A 90 3_106.8	106.8	664	712	712	736	736	1115	2515	2468	3156	9421	10157	9468
A 90 3_116.9	116.9	546	593	593	617	617	973	2397	2349	3037	9279	10038	9350
A 90 3_126.6	126.6	522	593	593	617	617	973	2397	2326	3037	9279	10014	9350
A 90 3_139.4	139.4	356	403	403	451	451	783	2207	2159	—	—	—	9160
A 90 3_151.0	151.0	332	71	71	102	102	451	1875	1804	—	—	—	8828

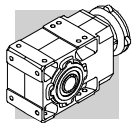
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A 90

	i	J (•10-4) [lb•ft2]						
			NEMA					
			N180TC	N210TC	N250TC	N280TC	N320TC	
A 90 3_9.7	9.7	—	—	—	—	14167	21096	21310
A 90 3_10.5	10.5	—	—	—	—	13645	20574	20788
A 90 3_12.6	12.6	—	—	—	—	9540	16445	16682
A 90 3_13.7	13.7	—	—	—	—	9231	16160	16374
A 90 3_15.6	15.6	—	—	—	—	7261	14167	14404
A 90 3_16.9	16.9	—	—	—	—	7048	13977	14191
A 90 3_19.4	19.4	—	—	—	5600	5553	12506	12577
A 90 3_21.0	21.0	—	—	—	5482	5411	12387	12435
A 90 3_22.3	22.3	—	—	—	—	7736	14665	14879
A 90 3_24.1	24.1	—	—	—	—	7641	14570	14784
A 90 3_29.1	29.1	—	—	—	—	5766	12696	12909
A 90 3_31.5	31.5	—	—	—	—	5719	12625	12862
A 90 3_35.8	35.8	—	—	—	—	4770	11699	11913
A 90 3_38.8	38.8	—	—	—	—	4746	11652	11865
A 90 3_44.6	44.6	—	—	—	4010	3939	10916	10963
A 90 3_48.3	48.3	—	—	—	3987	3916	10892	10940
A 90 3_55.0	55.0	1566	—	2017	3417	3370	10370	10394
A 90 3_59.6	59.6	1566	—	1993	3417	3346	10346	10370
A 90 3_68.8	68.8	1139	—	1590	2990	2943	9919	9872
A 90 3_74.5	74.5	1115	—	1566	2990	2919	9896	9872
A 90 3_80.4	80.4	1020	—	1471	2871	2824	9777	9777
A 90 3_87.1	87.1	1020	—	1471	2871	2824	9777	9777
A 90 3_98.6	98.6	664	712	1115	2515	2468	9421	9468
A 90 3_106.8	106.8	664	712	1115	2515	2468	9421	9468
A 90 3_116.9	116.9	546	593	973	2397	2349	9279	9350
A 90 3_126.6	126.6	522	593	973	2397	2326	9279	9350
A 90 3_139.4	139.4	356	403	783	2207	2159	—	9160
A 90 3_151.0	151.0	332	71	451	1875	1804	—	8828

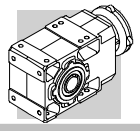
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



42 EXACT RATIOS

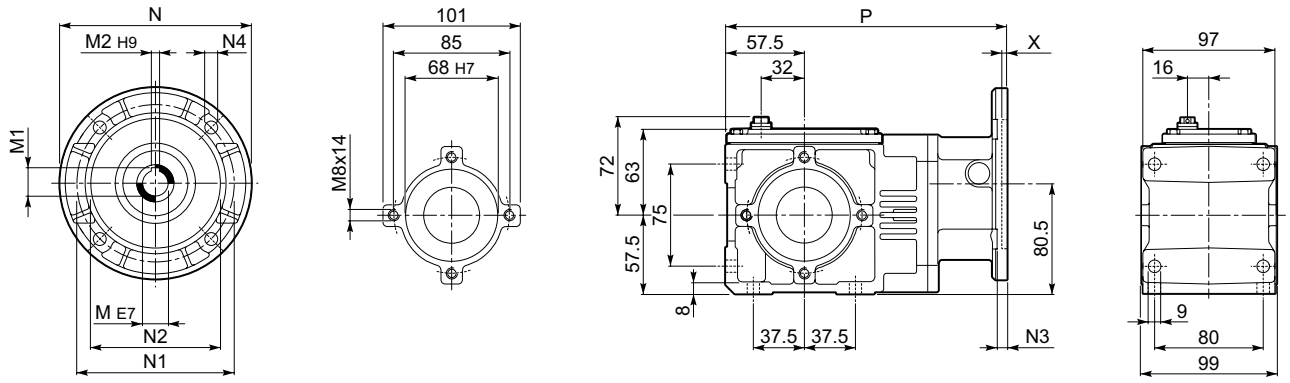
i_N	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
5.0								4.94505				
5.6	5.46559	5.46559	5.35117	5.41311	5.41311	5.24476						
6.3	6.33484	6.33484	6.53846	6.41026	6.41026			6.41026				
7.1	7.21154	7.21154	7.28745	7.02341	7.02341	7.12251						
8.0	8.51648	8.51648	8.37104	8.46154	8.46154	8.33333	7.73684	8.46154	7.86420			
9.0	9.61538	9.61538	9.37500	9.31174	9.31174	9.19732				9.43946		9.67545
10.0	10.55639	10.55639	10.33540	10.45503	10.63348	10.12987	9.73401	10.35503	10.31579	10.22609	9.83278	10.48174
11.2				11.77885	11.77885	11.74089				12.08027	10.65217	12.64214
12.5	12.30769	12.30769	11.96581		13.06878		13.10700	13.07692	12.70370	13.08696	12.27130	13.69565
14.0	13.92857	13.92857	14.07519	13.56522	15.47619	13.75661				15.40468	13.29391	15.57512
16.0	16.44898	16.44898	16.16807	16.34286	16.95652	16.09524	16.57005	15.68047	16.73663	16.68841	15.45151	16.87304
18.0	18.57143	18.57143	18.10714	17.98496		17.76398					19.33779	19.38462
20.0	21.35714	21.35714	21.22449	20.53782	20.42857		20.91813	19.23077	20.5942	19.66555	20.94928	21.00000
22.4	23.77143	23.77143	23.11111	22.75000	22.48120	22.67669				21.30435	22.61538	22.25354
25.0	25.46939	25.46939	26.46429	26.53061	25.67227		24.04795	23.79021	25.71012	23.52000	24.50000	24.10800
28.0	28.57143	28.57143	29.21905	29.30159	28.43750	28.32143	26.43733		27.85263	27.78462	28.22400	29.07692
31.5	32.19048	32.19048	31.30612	33.42857	33.16327		32.38095	29.93134	31.66154	30.10000	30.57600	31.50000
35.5	35.11688	35.11688	35.42857	36.64762	36.62698	35.90476	35.59829		34.30000	35.43077	35.53846	35.82277
40.0	40.85714	40.85714	39.61905	39.26531	41.78571	45.06667	40.93645	40.30303	41.71282	38.38333	38.50000	38.80800
45.0	45.39683	45.39683	43.22078	43.42857	45.80952	48.28571	45.00386		45.18889	45.23077	44.47692	44.58462
50.0	51.25714	51.25714	48.28571	48.28571	49.08163	53.14286	51.67843	50.95166	51.32709	49.00000	48.18333	48.30000
56.0	58.60317	58.60317	53.65079	52.67532	54.28571	58.80952	56.81314		55.60435	53.23314	55.18154	55.03077
63.0	65.92857	65.92857	63.14286	59.42857	60.35714	64.15584	63.89011	64.32168	64.98947	66.94154	66.80237	59.61667
71.0			70.98413	66.03175	65.84416	71.31429	70.23817		70.40526	72.52000	72.36923	68.75077
80.0	76.40816	76.40816	79.85714	76.51429	74.28571	79.23810	81.45055	79.52098	79.71923	79.32781	82.32000	80.37160
90.0	91.61905	91.61905	92.32653	86.66667	82.53968	92.76828	89.54339		86.36250	85.93846	89.18000	87.06923
100.0				97.50000	95.64286		99.53407	101.37762	99.50769	96.21818	104.03077	98.60308
112.2			109.16518	109.07029	105.54155	115.86039	109.42367	123.88531	107.80000	104.23636	115.95524	116.90414
125.0			120.52857	120.46208	116.90972		129.67046	132.73427	123.02769	120.61538	125.61818	126.64615
140.0			146.14286	137.42857	136.33787	146.88312	140.61938	146.80796	144.04260	141.86014	144.73846	139.39301
160.0			163.42857	161.42404	150.57760		154.59118	160.43706	171.46573	169.75499	156.80000	166.12694
180.0			178.28571	178.53968	171.78571	184.36364	173.36264	175.02225	185.75455	183.90123	171.29752	179.97085
200.0			199.17857	198.50794	201.78005	197.53247	190.58777	194.19860	208.73017		214.73193	209.01044
225.0			221.30952	216.55411	223.17460	217.40260	231.98700	208.05260	226.12435	220.25418	232.62626	226.42797
250.0			260.46429	244.31746	248.13492	240.58442	260.88462		264.29053	238.60870		
280.0			292.80952	271.46384	270.69264	291.74026	286.80584	262.64685	286.31474	292.01619	277.28428	281.43590
315.0			329.41071	314.55873	305.39683	324.15584	332.58974		324.19154	316.35088	300.39130	304.88889
355.0				356.29630	339.32981	376.83117	365.63552	324.71066	351.20750	369.38462	353.96864	355.79521
400.0			380.84694	400.83333	393.19841		406.43077		404.66462	400.16667	383.46603	385.44482
450.0							446.81331	413.95862	438.38667	475.76068	442.07937	449.15802
500.0							481.63314	505.86503	500.31262	515.40741	478.91932	486.58785
560.0							574.19580	541.99825	585.77325	595.03590	560.45035	555.29467
630.0							631.24731	655.11801	634.58769	644.62222	607.15455	601.56923
710.0							707.89744	714.67419	697.29399	705.13609	703.46182	707.91953
800.0							778.23340	792.97762	755.40182	855.27273	829.52598	766.91282
900.0										926.54545	898.65315	865.09065
1000.0										1072.13675	1001.43166	1025.1594
1125.0										1161.48148	1084.88430	1110.58935
1250.0										1242.33846	1236.85594	1222.17967
1400.0										1345.86667	1339.92727	1324.02797
1600.0										1583.07692	1557.66545	1506.76450
1800.0										1715.00000		1632.32821

2x 3x 4x



43 DIMENSIONS

A 05...P(IEC)



INPUT

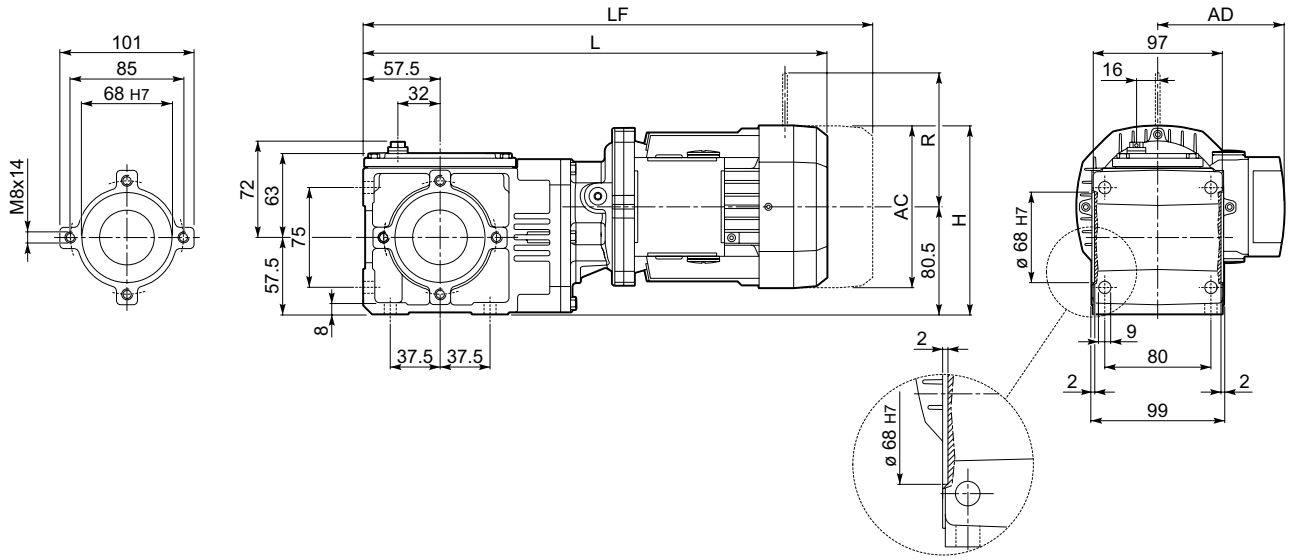
Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 05 2	**P63**	11	12.8	4	140	115	95	7	9.5	3.5	206	5
A 05 2	**P71**	14	16.3	5	160	130	110	7	9.5	4	213	5
A 05 2	**P80**	19	20.8#	6	200	165	130	7	11.5	4	223	5.5

Lowered key of Bonfiglioli supply

Metric output versions available also in combination with NEMA motor adaptor

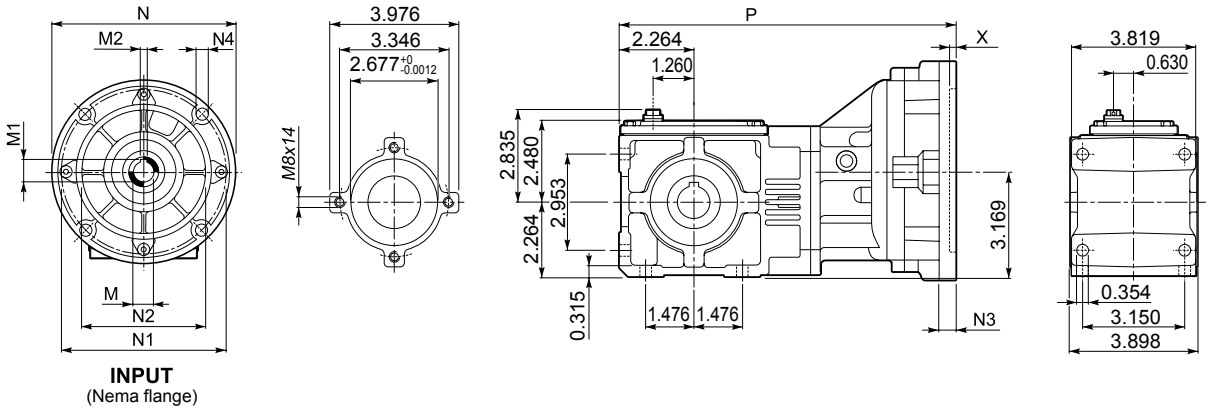
A 05...M/ME



Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 05 2	**S05**	**M05**	121	141	360.5	95	7.5	426.5	9	96	122	116	95
A 05 2	**S1**	**M1**	138	149.5	389.5	108	11.5	450.5	14	103	135	124	108
A 05 2	**S2**	**ME2S**	156	158.5	418.5	119	15.5	—	—	—	—	—	—

A 05...N(NEMA Input)

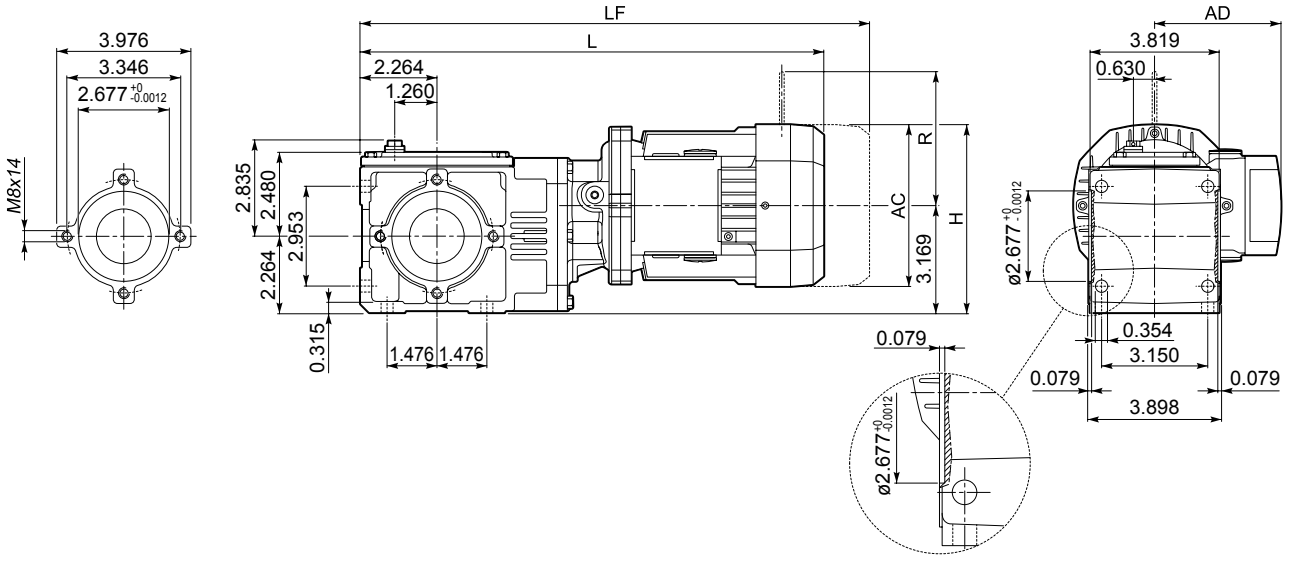


Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 05 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.000	11
A 05 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.000	11

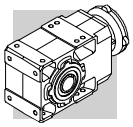
Imperial output versions available also in combination with IEC motor adaptor

A 05...M/ME

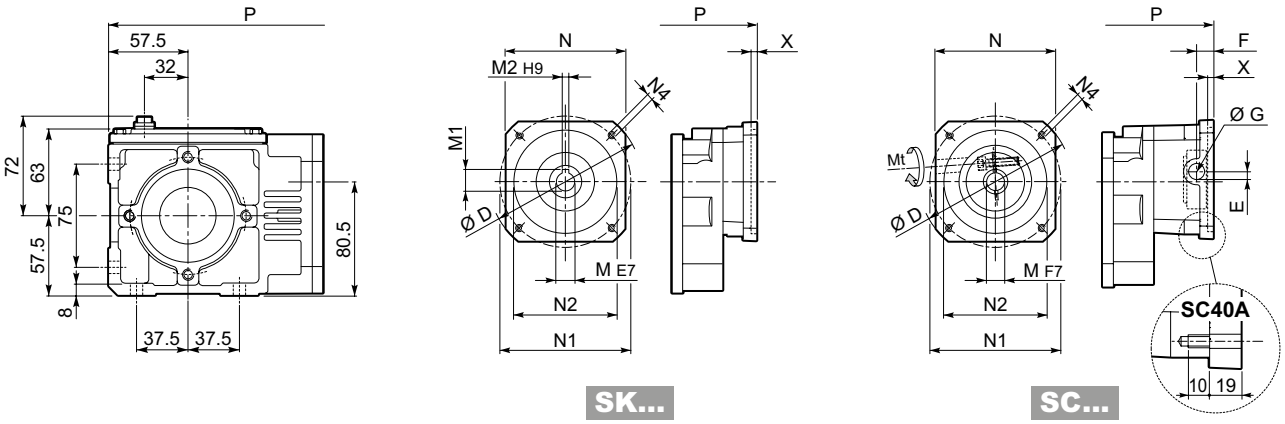


Dimensions are in Inch except when shown in *italic [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 05 2	**S05**	**M05**	4.764	5.551	14.193	3.740	17	16.791	20	3.780	4.803	4.567	3.740
A 05 2	**S1**	**M1**	5.433	5.886	15.335	4.252	25	17.736	31	4.055	5.315	4.882	4.252
A 05 2	**S2**	**ME2S**	6.142	6.240	16.476	4.685	34	—	—	—	—	—	—



A 05...SK / SC

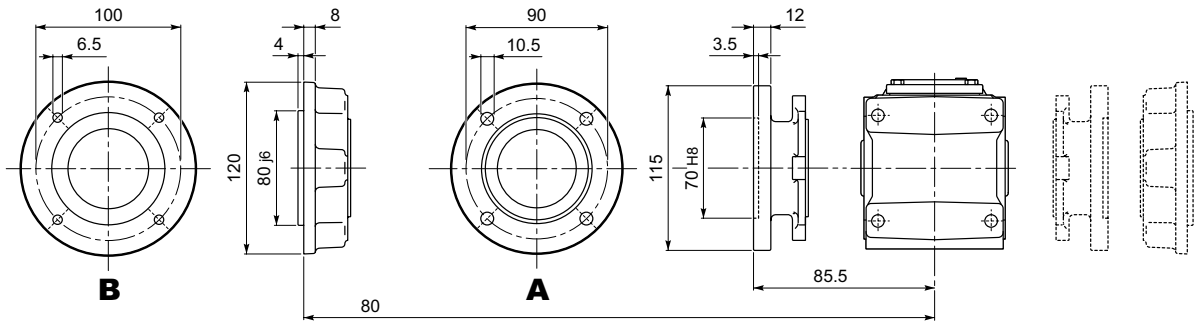


Dimensions are in mm

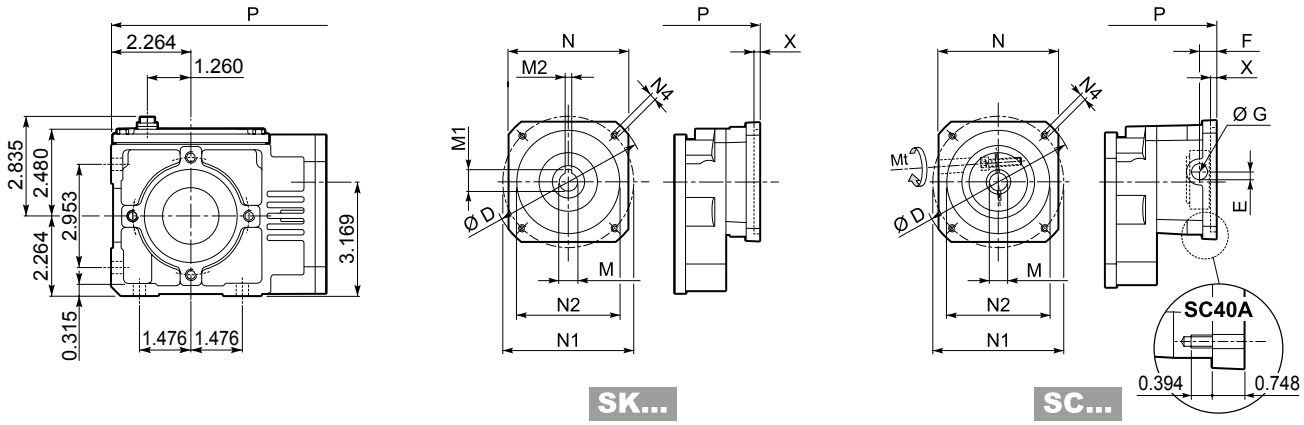
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
A 05 2	**SK40A**	74	9	10.4	3	55	63	40	M5x10	3	207.5	5
A 05 2	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	206	5
A 05 2	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	213	5
A 05 2	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	213	5

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
A 05 2	**SC40A**	M5	15	74	10.5	9.5	12.5	9	55	63	40	M5x10	3	226.5	6
A 05 2	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	233	6
A 05 2	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	233	6
A 05 2	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	233	6

A 05...F...



A 05...SK / SC

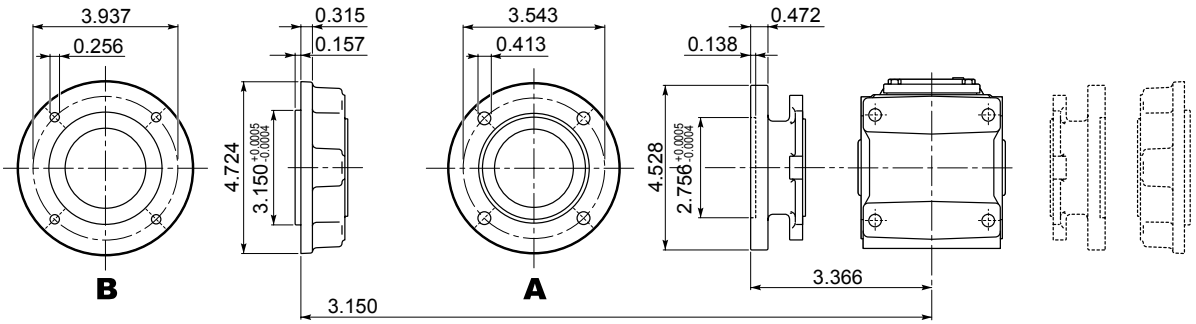


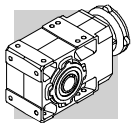
Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
A 05 2	**SK40A**	2.913	0.354	0.409	0.118	2.165	2.480	1.575	*M5x10*	0.118	8.169	11
A 05 2	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	8.110	11
A 05 2	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	8.386	11
A 05 2	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	8.386	11

			Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
A 05 2	**SC40A**	*M5*	133	2.913	0.413	0.374	0.492	0.354	2.165	2.480	1.575	*M5x10*	0.118	8.917	13
A 05 2	**SC60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	9.173	13
A 05 2	**SC60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	9.173	13
A 05 2	**SC80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	9.173	13

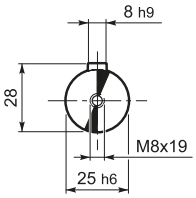
A 05...F...

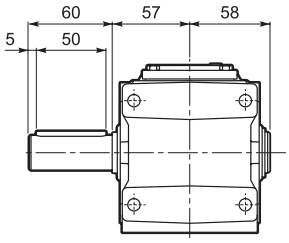




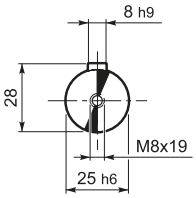
A 05

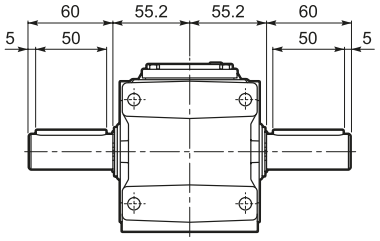
A 05...UR



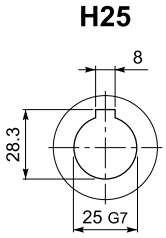


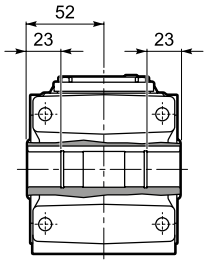
A 05...UD



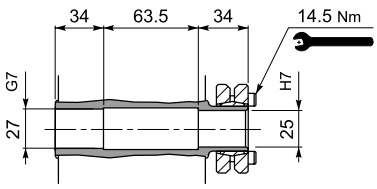


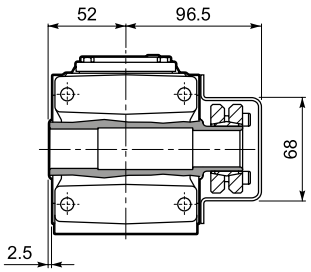
A 05...UH

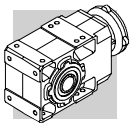




A 05...US



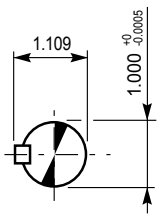


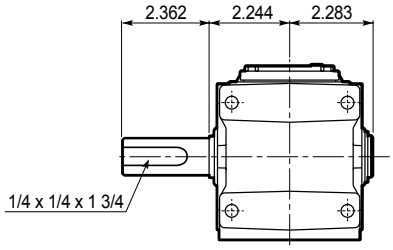


A 05

A 05...NUR

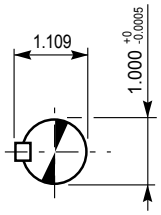
OUTPUT
(Inch Series)

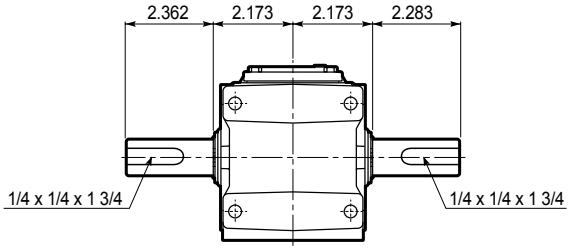




A 05...NUD

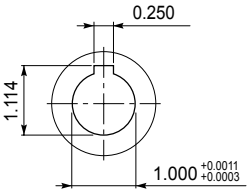
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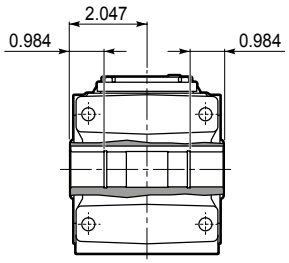




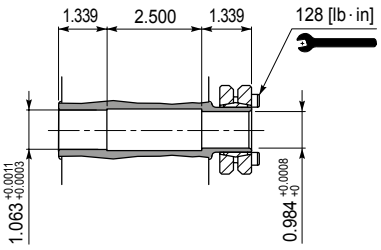
A 05...NUH

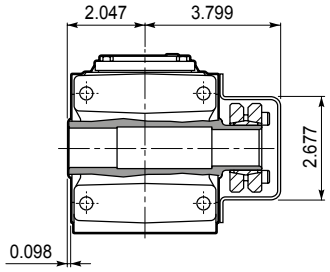
OUTPUT
(Inch Series)

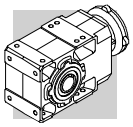




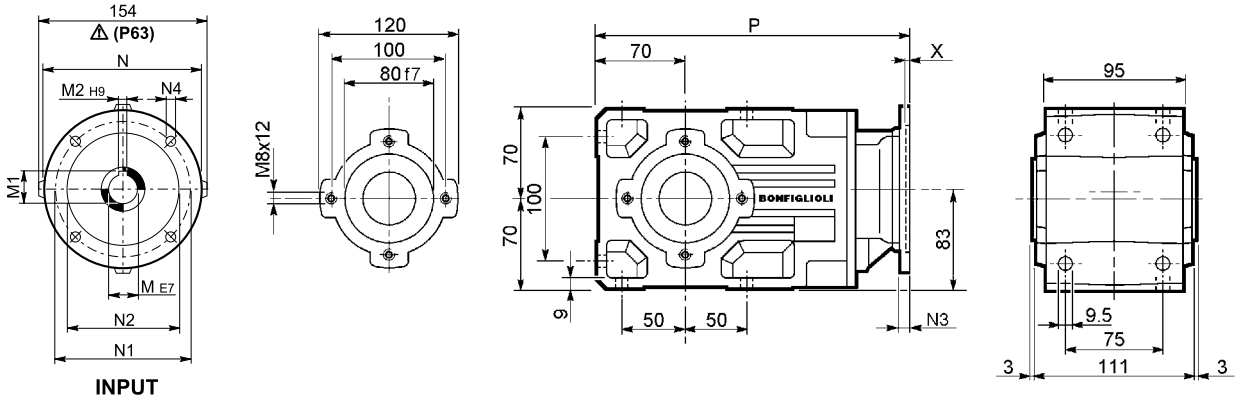
A 05...US







A 10...P(IEC)

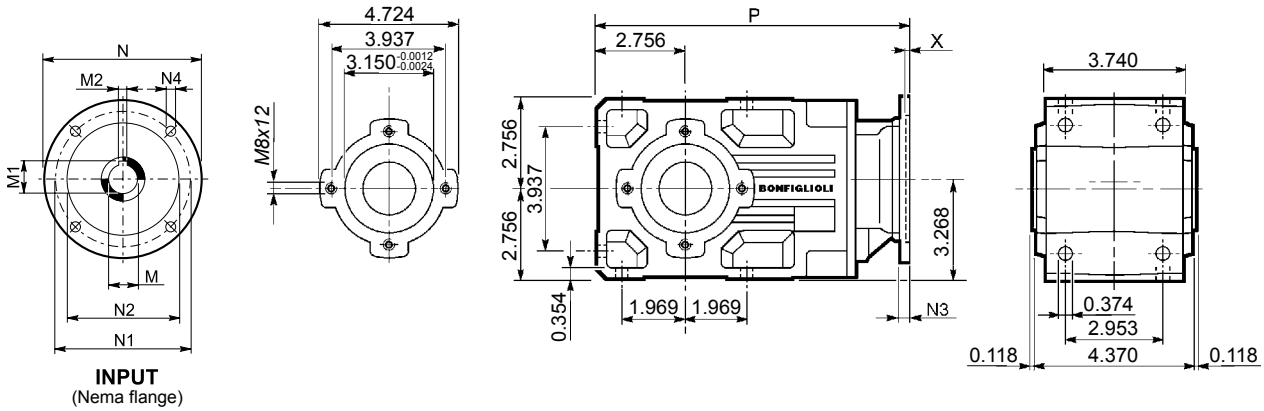


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
A 10 2	**P63**	11	12.8	4	140	115	95	—	M8x10	4	282.5	8
A 10 2	**P71**	14	16.3	5	160	130	110	—	M8x10	4.5	282.5	9
A 10 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	302	9
A 10 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	302	9
A 10 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	312	13
A 10 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	312	13

Metric output versions available also in combination with NEMA motor adaptor

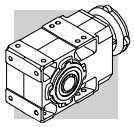
A 10...N(NEMA Input)



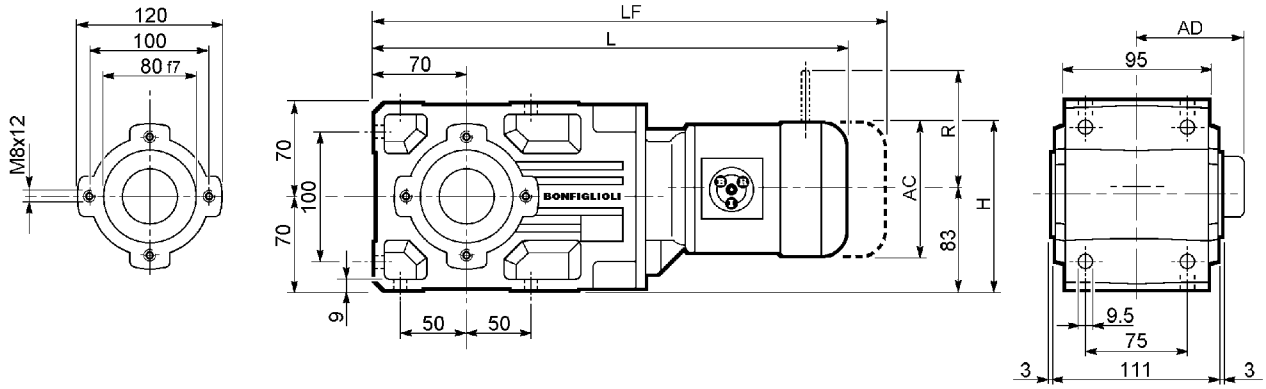
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 10 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.909	20
A 10 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.909	20
A 10 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	12.736	29

Imperial output versions available also in combination with IEC motor adaptor

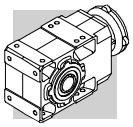


A 10...M/ME/MX

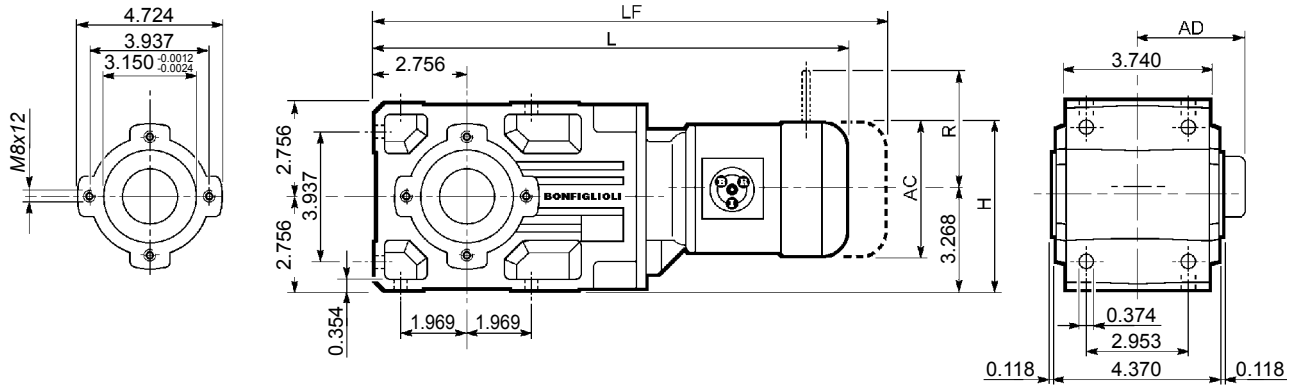


Dimensions are in mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 10 2	**S05**	**M05**	121	143.5	408.5	95	12	474.5	14	96	122	116	95
A 10 2	**S05**	**ME05**	121	143.5	408.5	95	12	474.5	14	96	119	116	119
A 10 2	**S1**	**M1**	138	152	437.5	108	14	498.5	17	103	135	124	108
A 10 2	**S1**	**ME1**	138	152	437.5	108	14	498.5	17	103	135	124	135
A 10 2	**S2**	**ME2S**	156	161	466.5	119	18	522	20.1	129	143	134	143
A 10 2	**S2**	**MX2S**	156	161	510.5	119	23.1	568	27.3	129	143	134	143
A 10 2	**S3**	**ME3S**	195	180.5	509.5	142	24.5	576	29.4	160	155	160	155
A 10 2	**S3**	**MX3S**	195	180.5	541.5	142	27.5	605	34.4	160	155	160	155
A 10 2	**S3**	**ME3L**	195	180.5	541.5	142	30	603	32.6	160	155	160	155
A 10 2	**S3**	**MX3L**	195	180.5	585.5	142	36	647	43.4	160	155	160	155

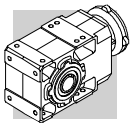


A 10...M/ME/MX

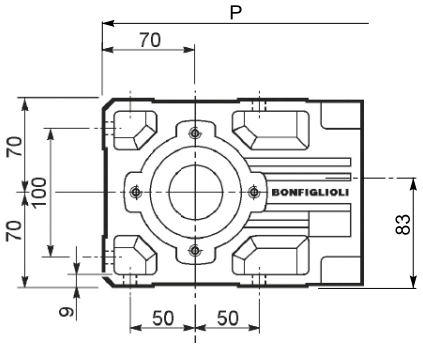


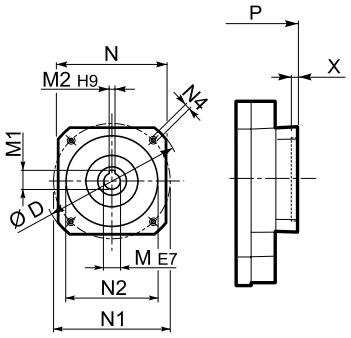
Dimensions are in Inch except when shown in *italic [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 10 2	**S05**	**M05**	4.764	5.650	16.083	3.740	26	18.681	31	3.780	4.803	4.567	3.740
A 10 2	**S1**	**M1**	5.433	5.984	17.224	4.252	31	19.626	37	4.055	5.315	4.882	4.252
A 10 2	**S2**	**ME2S**	6.142	6.339	18.366	4.685	40	—	—	—	—	—	—
A 10 2	**S2**	**MX2S**	6.142	6.339	20.098	4.685	51	—	—	—	—	—	—
A 10 2	**S3**	**ME3S**	7.677	7.106	20.059	5.591	54	—	—	—	—	—	—
A 10 2	**S3**	**MX3S**	7.677	7.106	21.319	5.591	61	—	—	—	—	—	—
A 10 2	**S3**	**ME3L**	7.677	7.106	21.319	5.591	66	—	—	—	—	—	—
A 10 2	**S3**	**MX3L**	7.677	7.106	23.051	5.591	79	—	—	—	—	—	—

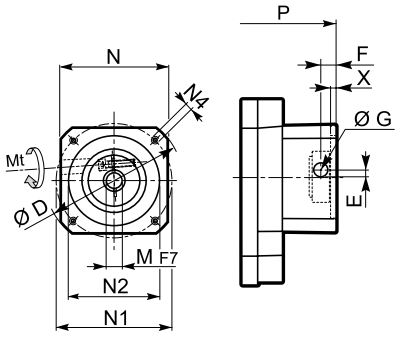


A 10...SK / SC





SK...

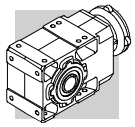


SC...

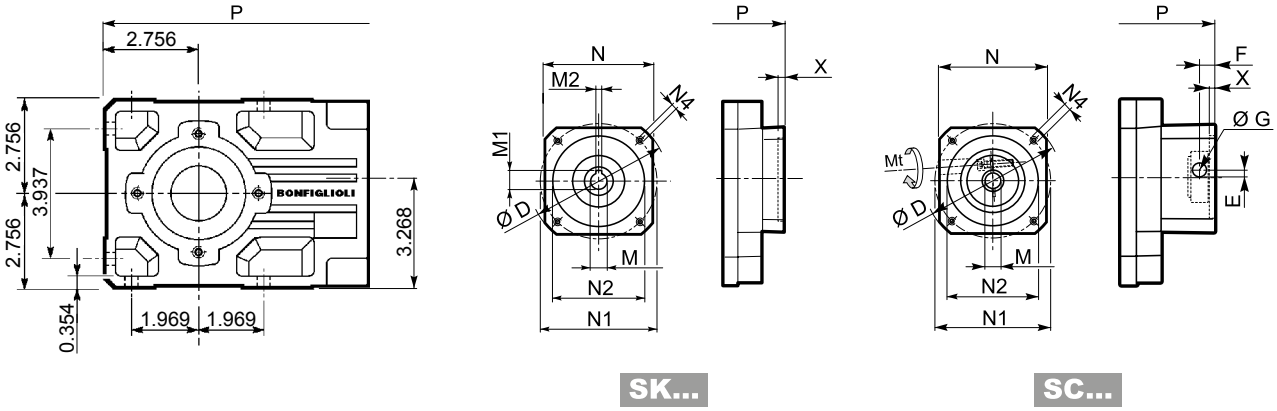
Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
A 10 2	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	254	8
A 10 2	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	261	8
A 10 2	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	261	8
A 10 2	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	302	9
A 10 2	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	302	9
A 10 2	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	302	9
A 10 2	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	302	9
A 10 2	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	302	9
A 10 2	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	302	9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
A 10 2	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	281	9
A 10 2	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	281	9
A 10 2	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	281	9
A 10 2	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	325.5	10
A 10 2	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	325.5	10
A 10 2	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	325.5	10
A 10 2	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	325.5	10
A 10 2	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	325.5	12
A 10 2	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	325.5	12



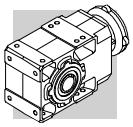
A 10...SK / SC



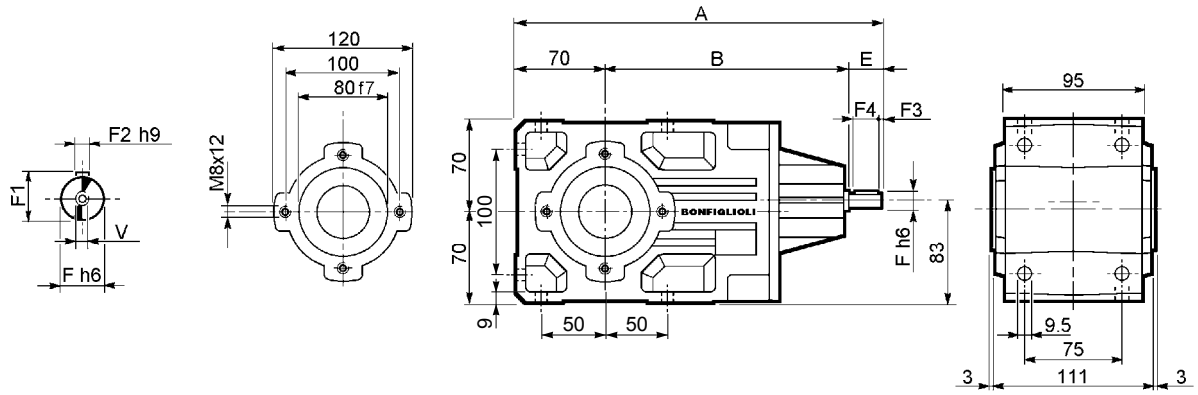
Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
A 10 2	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	10.000	18
A 10 2	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	10.276	18
A 10 2	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	10.276	18
A 10 2	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	11.890	20
A 10 2	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.890	20
A 10 2	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.890	20
A 10 2	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.890	20
A 10 2	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.890	20
A 10 2	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.890	20

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
A 10 2	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	11.063	20
A 10 2	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	11.063	20
A 10 2	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	11.063	20
A 10 2	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	12.815	22
A 10 2	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	12.815	22
A 10 2	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.815	22
A 10 2	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.815	22
A 10 2	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.815	26
A 10 2	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.815	26



A 10...HS

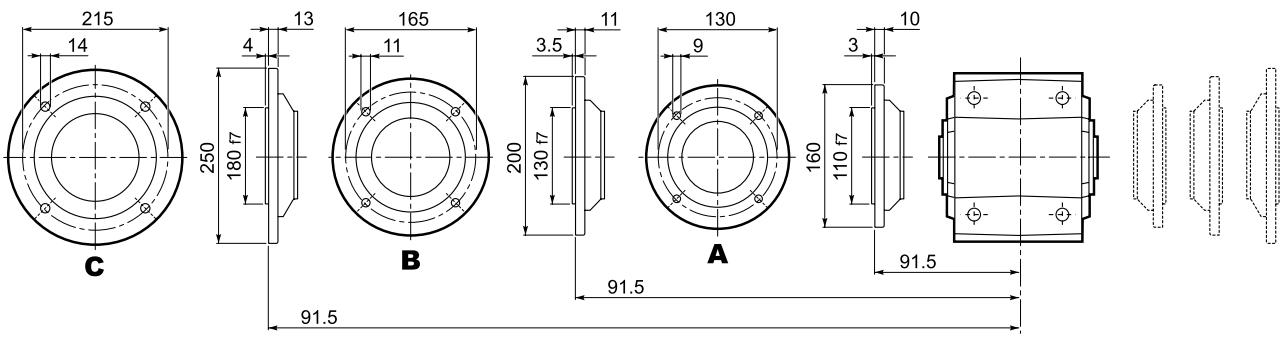


Dimensions are in mm

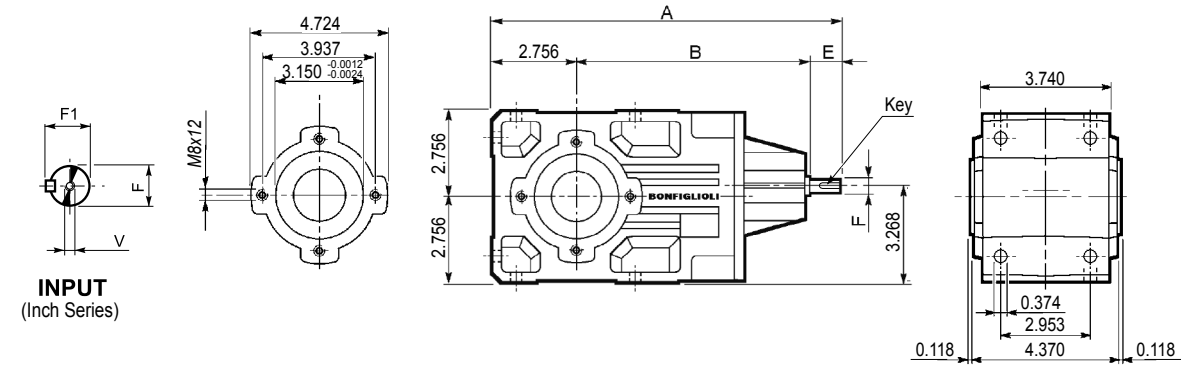
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 10 2	**HS**	289.5	179.5	40	16	18	5	2.5	35	M6x16	7.8

Metric output versions available also in combination with NHS input

A 10...F...



A 10...NHS

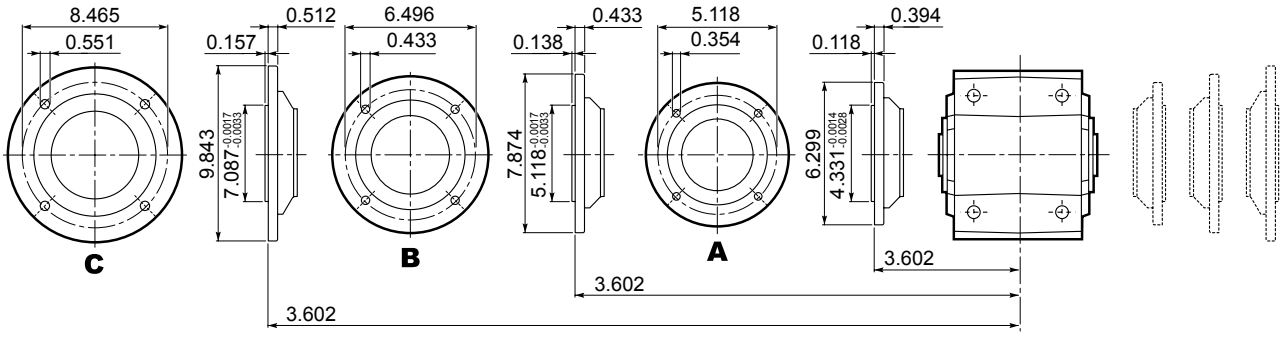


Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 10 2	**NHS**	11.398	7.067	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

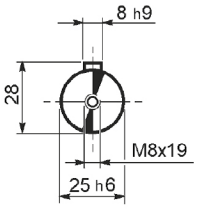
Imperial output versions available also in combination with HS input

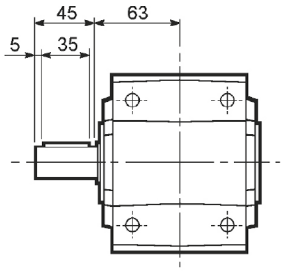
A 10...F...



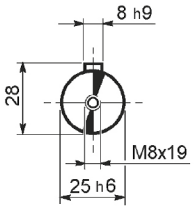
A 10

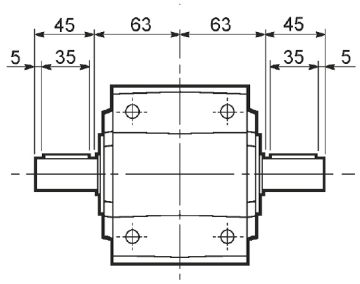
A 10...UR



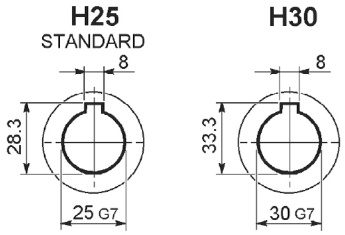


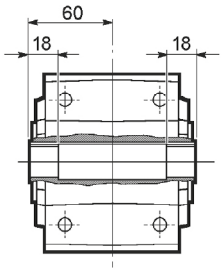
A 10...UD



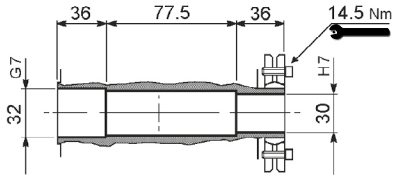


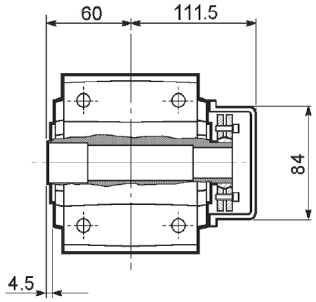
A 10...UH





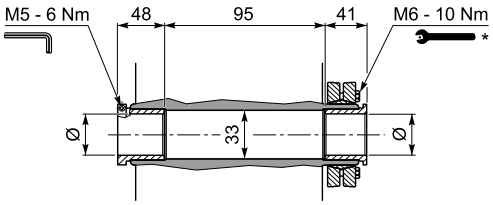
A 10...US

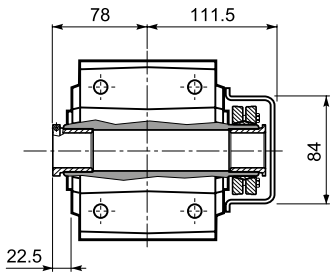




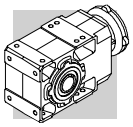
A10...QF

	Ø
QF25	25
QF30	30





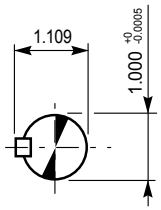
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

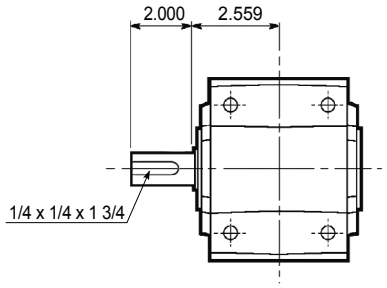


A 10

A 10...NUR

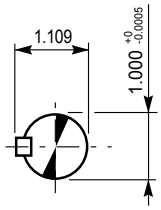
OUTPUT
(Inch Series)

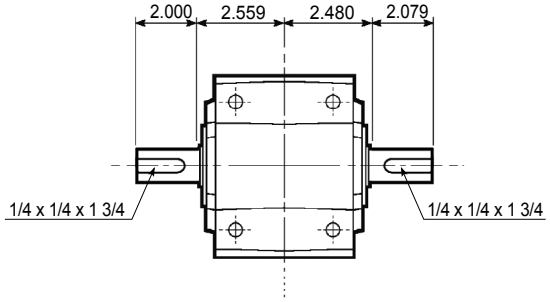




A 10...NUD

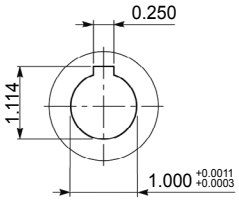
OUTPUT
(Inch Series)

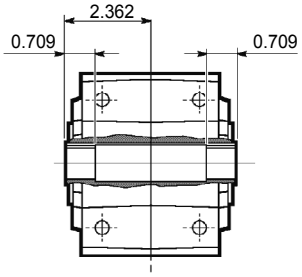




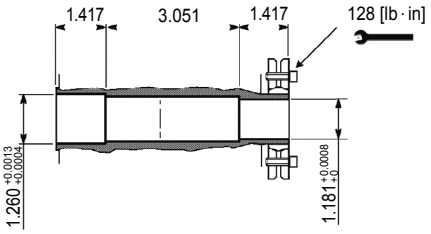
A 10...NUH

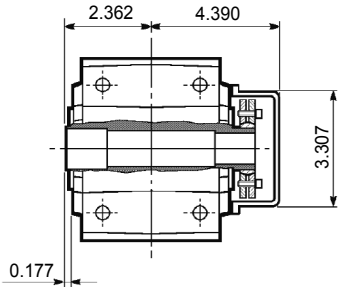
OUTPUT
(Inch Series)



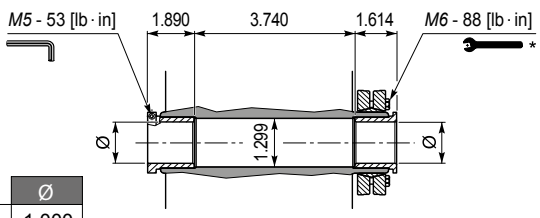


A 10...US

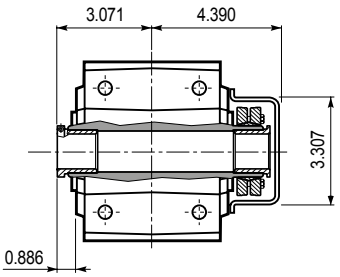




A 10...NQF

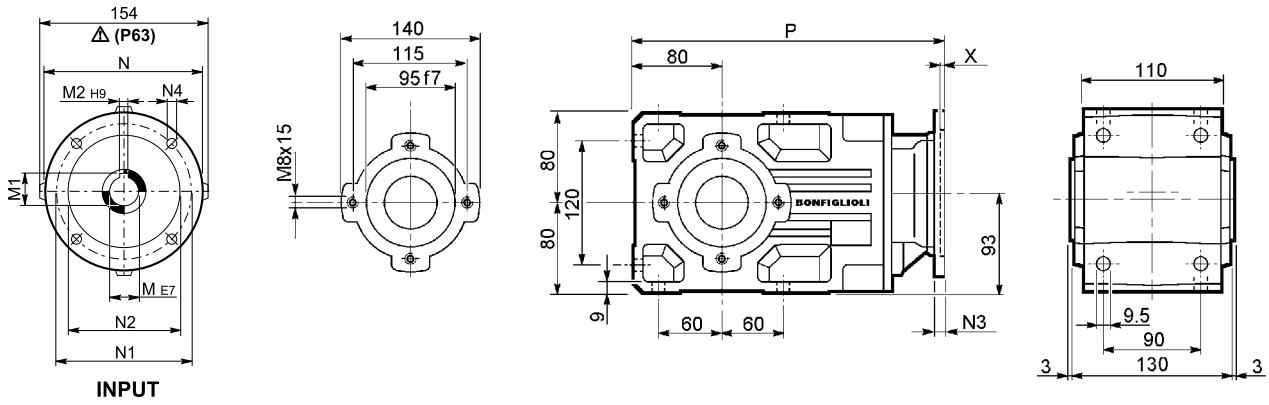


	Ø
NQF1	1.000
NQF1-3/16	1.188



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

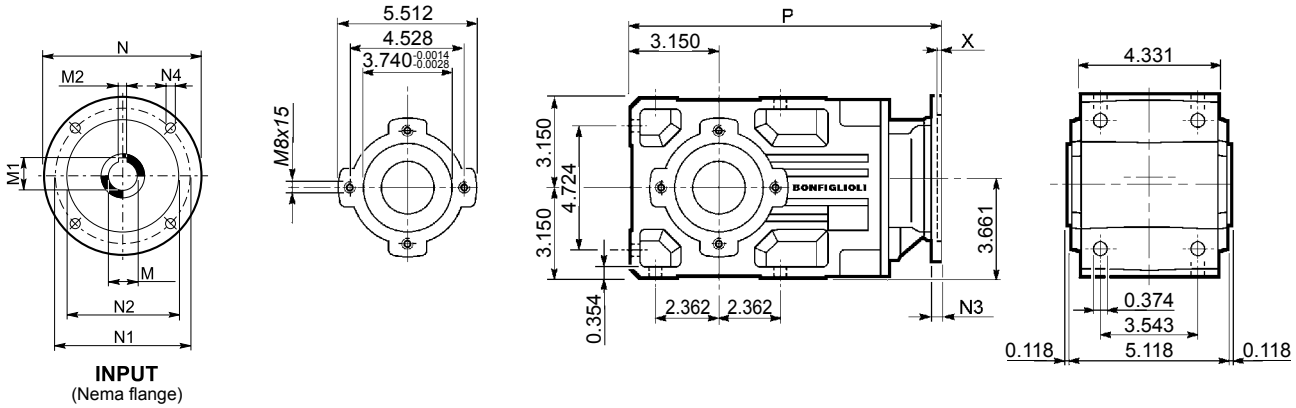
A 20...P(IEC)



Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 20 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	306	12
A 20 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	306	12
A 20 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	325.5	13
A 20 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	325.5	13
A 20 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	361.5	13
A 20 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	361.5	13
A 20 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	381	14
A 20 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	381	14
A 20 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	391	18
A 20 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	391	18

Metric output versions available also in combination with NEMA motor adaptor

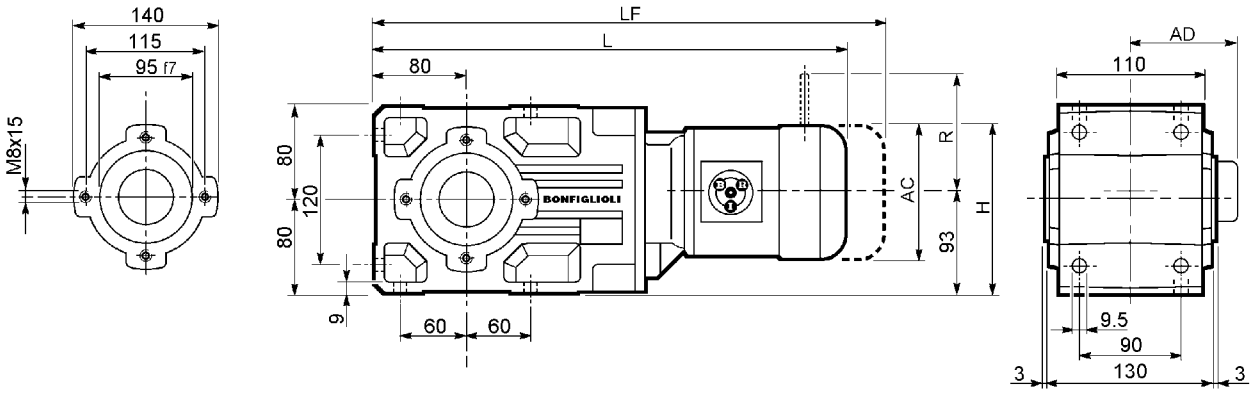


Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 20 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	26
A 20 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	29
A 20 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	13.661	37
A 20 3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	26
A 20 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	29
A 20 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	13.661	37

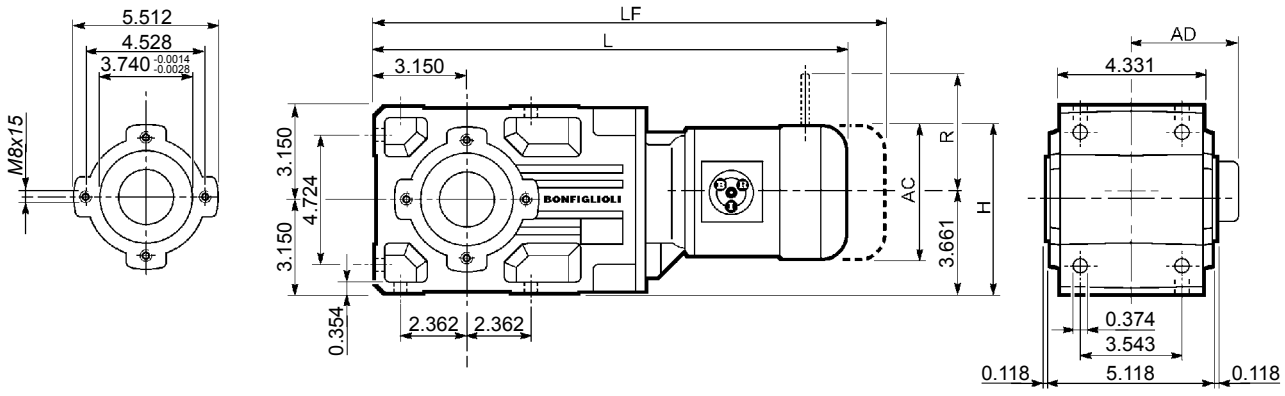
Imperial output versions available also in combination with IEC motor adaptor

A 20...M/ME/MX



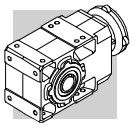
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
												Dimensions are in mm	
A 20 2	**S05**	**M05**	121	143.5	432	95	16	498	18	96	122	116	95
A 20 2	**S05**	**ME05**	121	143.5	432	95	16	498	18	96	119	116	119
A 20 2	**S1**	**M1**	138	152	461	108	18	522	21	103	135	124	108
A 20 2	**S1**	**ME1**	138	152	461	108	18	522	21	103	135	124	135
A 20 2	**S2**	**ME2S**	156	161	490	119	22	546	24.1	129	143	134	143
A 20 2	**S2**	**MX2S**	156	161	434	119	27.1	592	31.3	129	143	134	143
A 20 2	**S3**	**ME3S**	195	180.5	533	142	28.5	600	33.4	160	155	160	155
A 20 2	**S3**	**MX3S**	195	180.5	565	142	31.5	629	35.4	160	155	160	155
A 20 2	**S3**	**ME3L**	195	180.5	565	142	34	627	36.6	160	155	160	155
A 20 2	**S3**	**MX3L**	195	180.5	609	142	40	671	42.4	160	155	160	155
A 20 3	**S05**	**M05**	121	143.5	457.5	95	16	553.5	18	96	122	116	95
A 20 3	**S05**	**ME05**	121	143.5	457.5	95	16	553.5	18	96	119	116	119
A 20 3	**S1**	**M1**	138	152	486.5	108	19	577.5	21	103	135	124	108
A 20 3	**S1**	**M1**	138	152	486.5	108	19	577.5	21	103	135	124	135
A 20 3	**S2**	**ME2S**	156	161	545.5	119	23	601.5	24.1	129	143	134	143
A 20 3	**S2**	**MX2S**	156	161	589.5	119	28.1	647.5	31.3	129	143	134	143
A 20 3	**S3**	**ME3S**	195	180.5	588.5	142	29.5	655.5	33.4	160	155	160	155
A 20 3	**S3**	**MX3S**	195	180.5	620.5	142	32.5	684.5	35.4	160	155	160	155
A 20 3	**S3**	**ME3L**	195	180.5	620.5	142	35	682.5	36.6	160	155	160	155
A 20 3	**S3**	**MX3L**	195	180.5	664.5	142	41	726.5	47.4	160	155	160	155

A 20...M/ME/MX

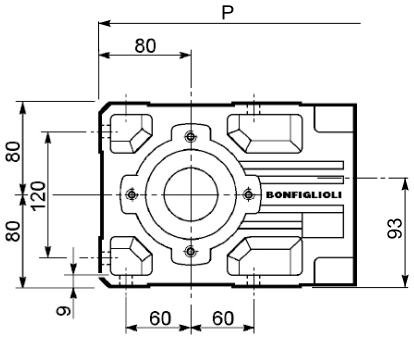


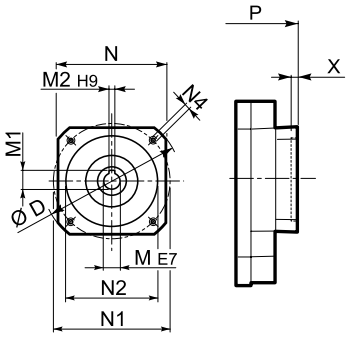
Dimensions are in Inch except when shown in *italic [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 20 2	**S05**	**M05**	4.764	5.650	17.008	3.740	35	19.606	40	3.780	4.803	4.567	3.740
A 20 2	**S1**	**M1**	5.433	5.984	18.150	4.252	40	20.551	46	4.055	5.315	4.882	4.252
A 20 2	**S2**	**ME2S**	6.142	6.339	19.291	4.685	49	—	—	—	—	—	—
A 20 2	**S2**	**MX2S**	6.142	6.339	17.087	4.685	60	—	—	—	—	—	—
A 20 2	**S3**	**ME3S**	7.677	7.106	20.984	5.591	63	—	—	—	—	—	—
A 20 2	**S3**	**MX3S**	7.677	7.106	22.244	5.591	69	—	—	—	—	—	—
A 20 2	**S3**	**ME3L**	7.677	7.106	22.244	5.591	75	—	—	—	—	—	—
A 20 2	**S3**	**MX3L**	7.677	7.106	23.976	5.591	88	—	—	—	—	—	—
A 20 3	**S05**	**M05**	4.764	5.650	18.012	3.740	35	21.791	40	3.780	4.803	4.567	3.740
A 20 3	**S1**	**M1**	5.433	5.984	19.154	4.252	42	22.736	46	4.055	5.315	4.882	4.252
A 20 3	**S2**	**ME2S**	6.142	6.339	21.476	4.685	51	—	—	—	—	—	—
A 20 3	**S2**	**MX2S**	6.142	6.339	23.209	4.685	62	—	—	—	—	—	—
A 20 3	**S3**	**ME3S**	7.677	7.106	23.169	5.591	65	—	—	—	—	—	—
A 20 3	**S3**	**MX3S**	7.677	7.106	24.429	5.591	72	—	—	—	—	—	—
A 20 3	**S3**	**ME3L**	7.677	7.106	24.429	5.591	77	—	—	—	—	—	—
A 20 3	**S3**	**MX3L**	7.677	7.106	26.161	5.591	90	—	—	—	—	—	—

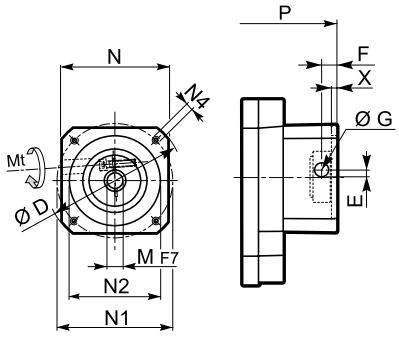


A 20...SK / SC





SK...

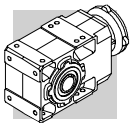


SC...

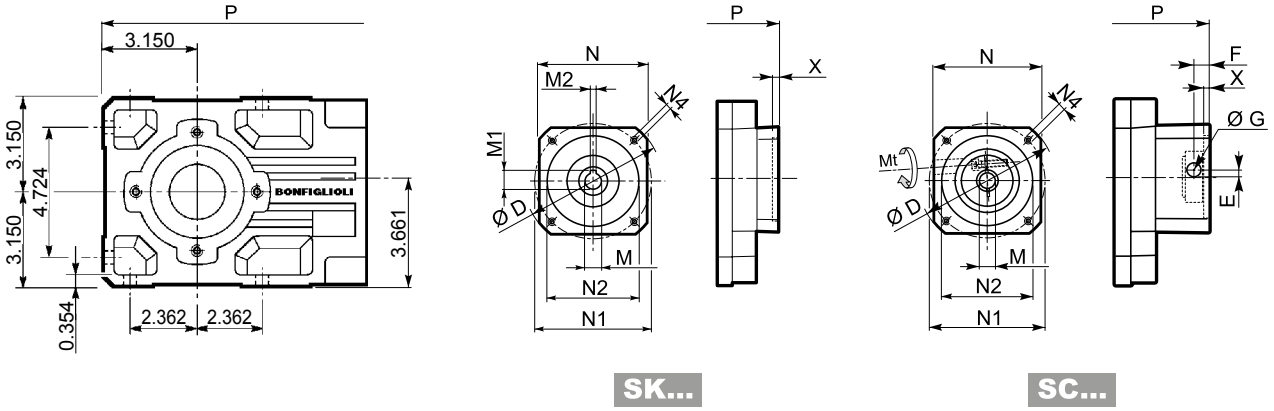
Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 20 2/3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	277.5	333	11/12
A 20 2/3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	284.5	340	12/13
A 20 2/3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	284.5	340	12/13
A 20 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	325.5	381	13/14
A 20 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	325.5	381	13/14
A 20 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	325.5	381	13/14

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 20 2/3	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	304.5	360	12/13
A 20 2/3	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	304.5	360	13/14
A 20 2/3	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	304.5	360	13/14
A 20 2/3	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	349	404.5	14/15
A 20 2/3	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	349	404.5	15/16
A 20 2/3	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	349	404.5	15/16



A 20...SK / SC



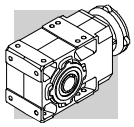
SK...

SC...

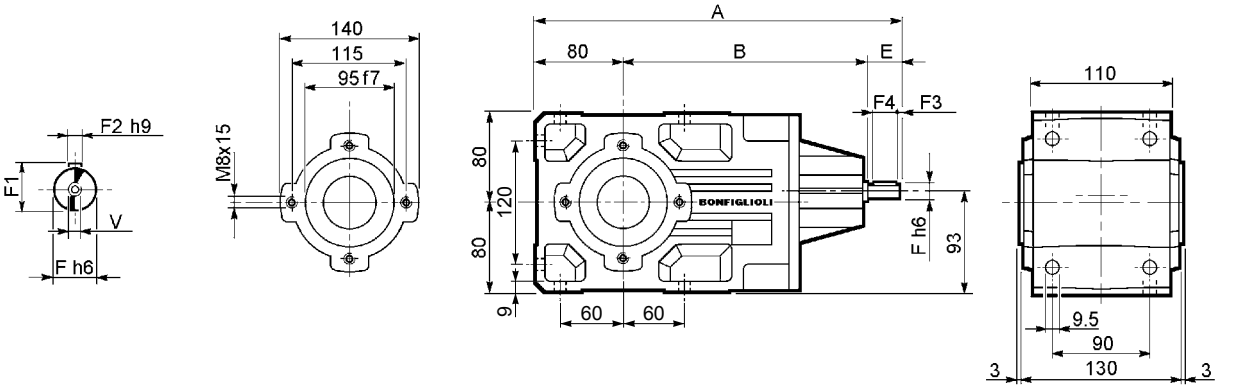
Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 20 2/3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	10.925	13.110	24/26
A 20 2/3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	11.201	13.386	26/29
A 20 2/3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	11.201	13.386	26/29
A 20 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	12.815	15.000	29/31
A 20 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.815	15.000	26/31
A 20 2/3	**SK95B**	5.118	0.748 $^{+0.0020}_{+0.0013}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.815	15.000	29/31
A 20 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.815	15.000	29/31
A 20 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	12.815	15.000	31/31
A 20 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	12.815	15.000	29/31

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 20 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	11.988	14.173	26/29
A 20 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	11.988	14.173	29/31
A 20 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	11.988	14.173	29/31
A 20 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	13.740	15.925	31/33
A 20 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	13.740	15.925	31/33
A 20 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	13.740	15.925	31/33
A 20 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	13.740	15.925	31/33
A 20 2/3	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	13.740	15.925	33/35
A 20 2/3	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	13.740	15.925	33/35



A 20...HS

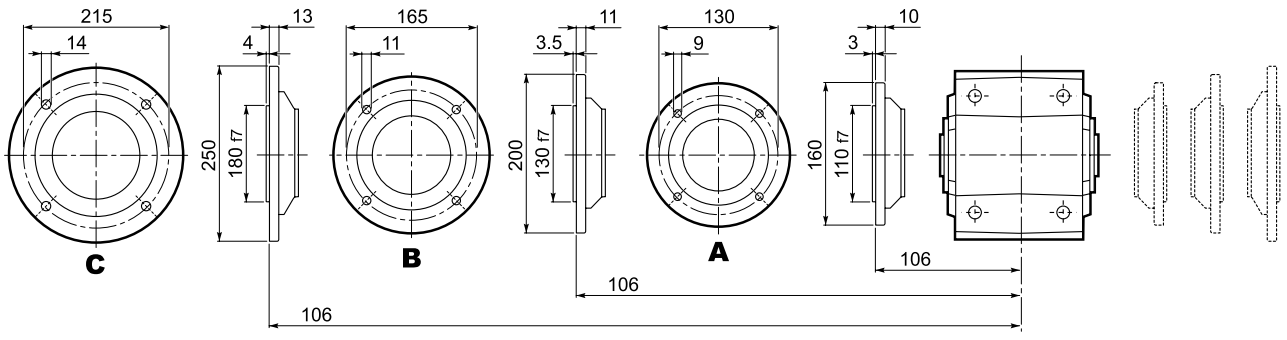


Dimensions are in mm

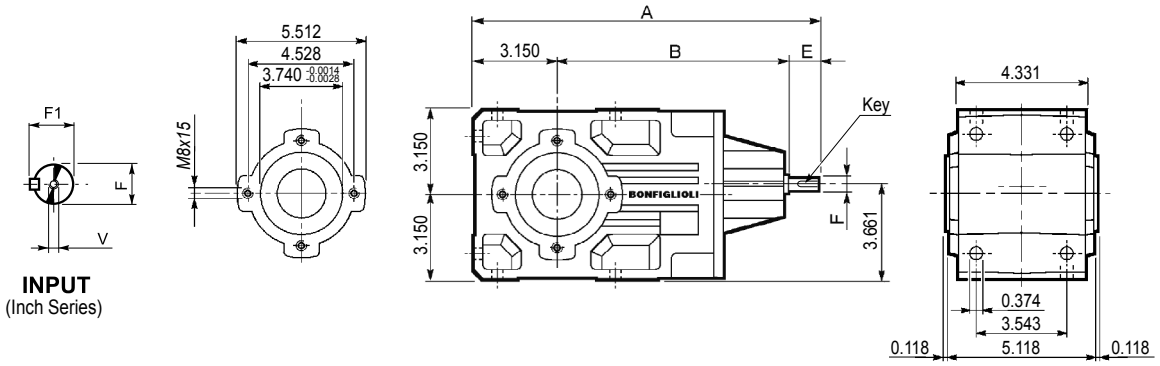
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 20 2	**HS**	356	236	40	19	21.5	6	2.5	35	M6x16	11.9
A 20 3		368.5	248.5	40	16	18	5	2.5	35	M6x16	12.2

Metric output versions available also in combination with NHS input

A 20...F...



A 20...NHS

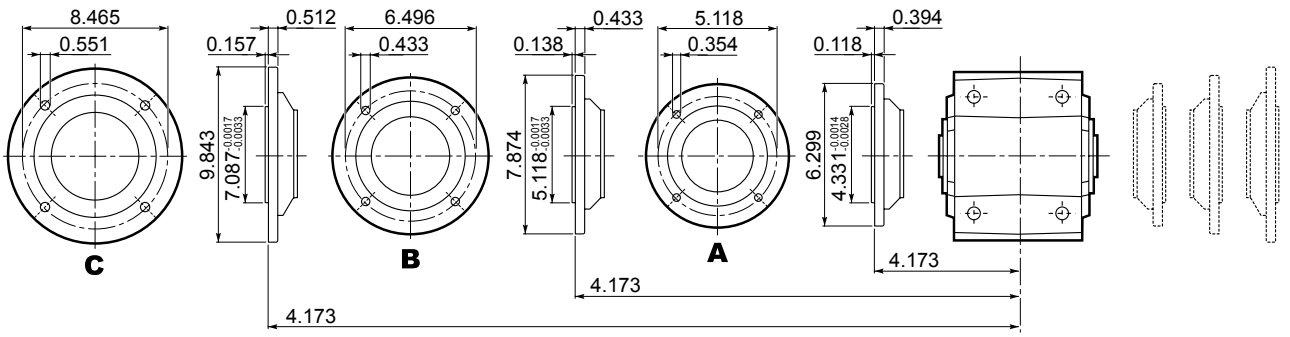


Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 20 2	**NHS**	14.016	9.291	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	26
A 20 3	**NHS**	14.508	9.783	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	27

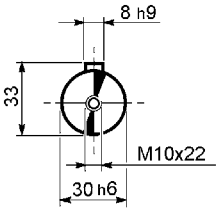
Imperial output versions available also in combination with HS input

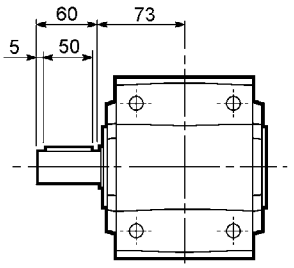
A 20...F...



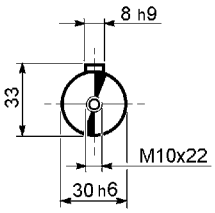
A 20

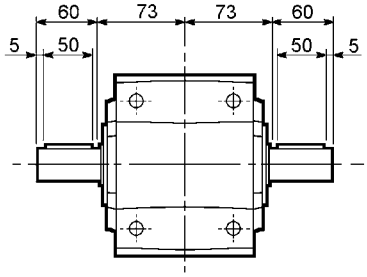
A 20...UR



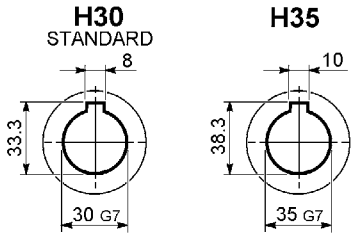


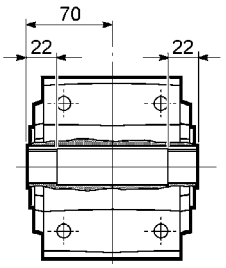
A 20...UD



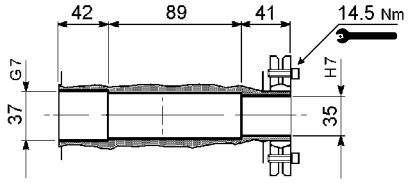


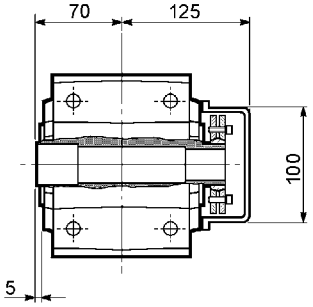
A 20...UH





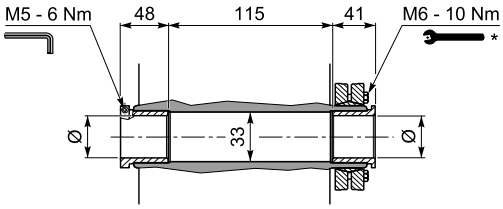
A 20...US

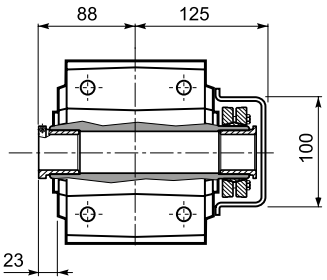




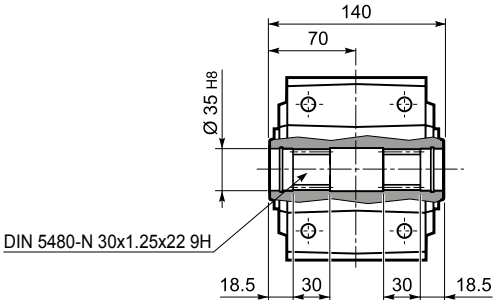
A 20...QF

	Ø
QF25	25
QF30	30





A 20...UV

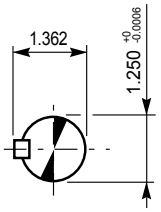


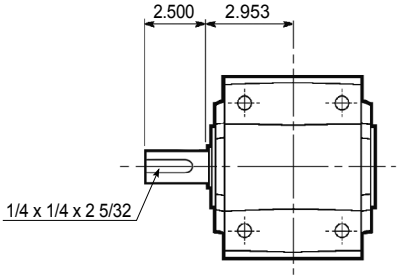
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

A 20

A 20...NUR

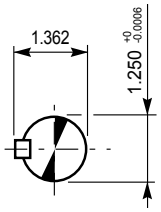
OUTPUT
(Inch Series)

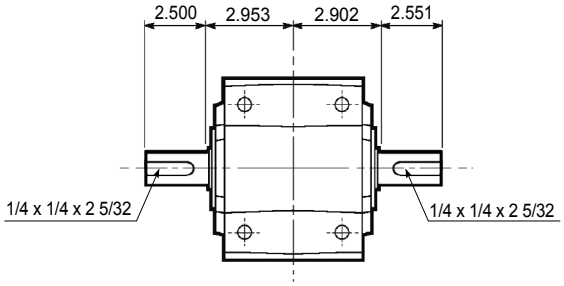




A 20...NUD

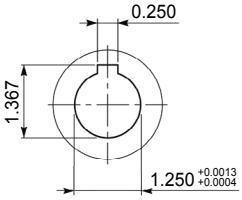
OUTPUT
(Inch Series)

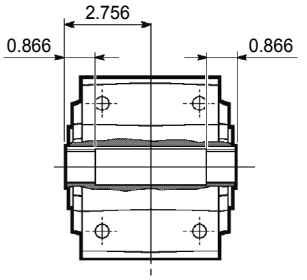




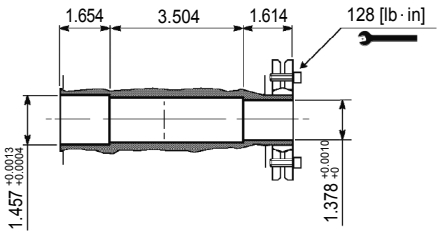
A 20...NUH

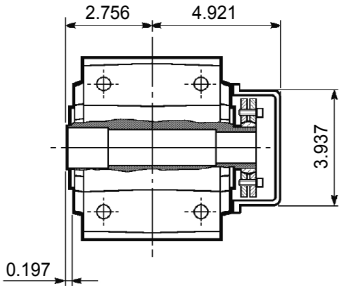
OUTPUT
(Inch Series)



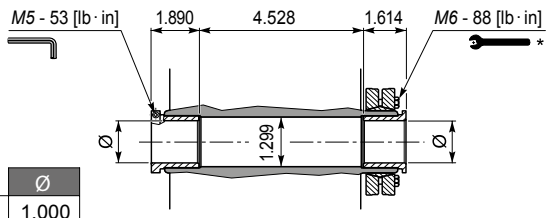


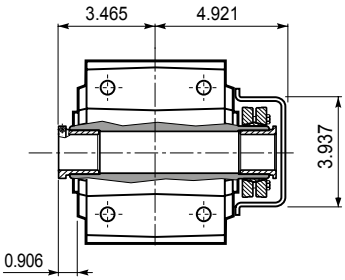
A 20...US





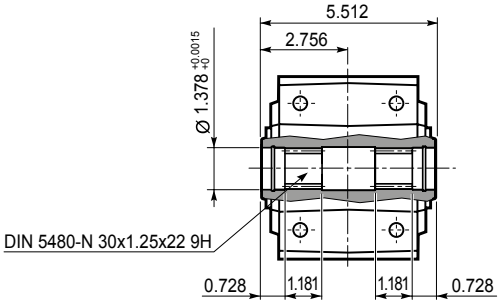
A 20...NQF





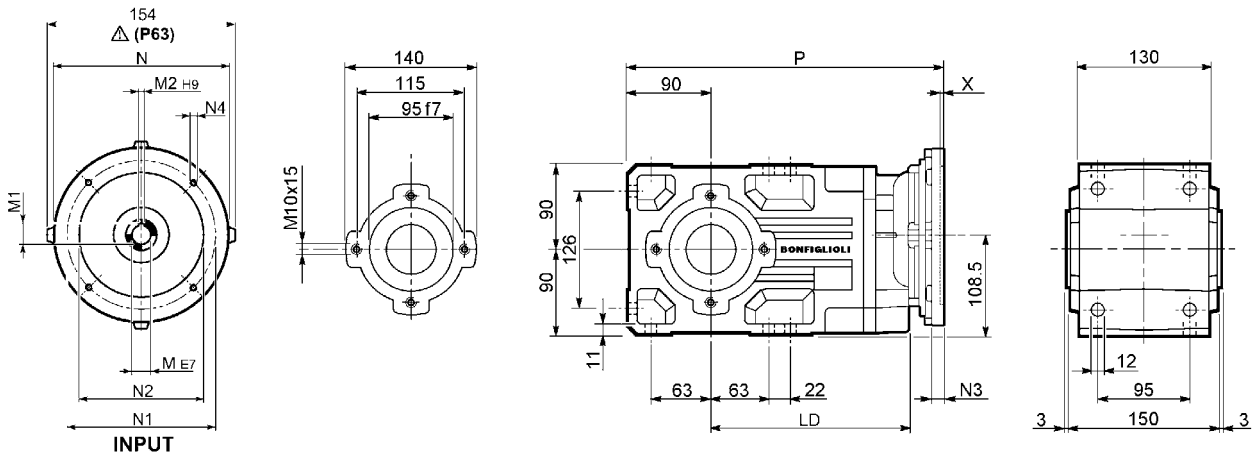
	Ø
NQF1	1.000
NQF1-3/16	1.188

A 20...UV



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

A 30...P(IEC)

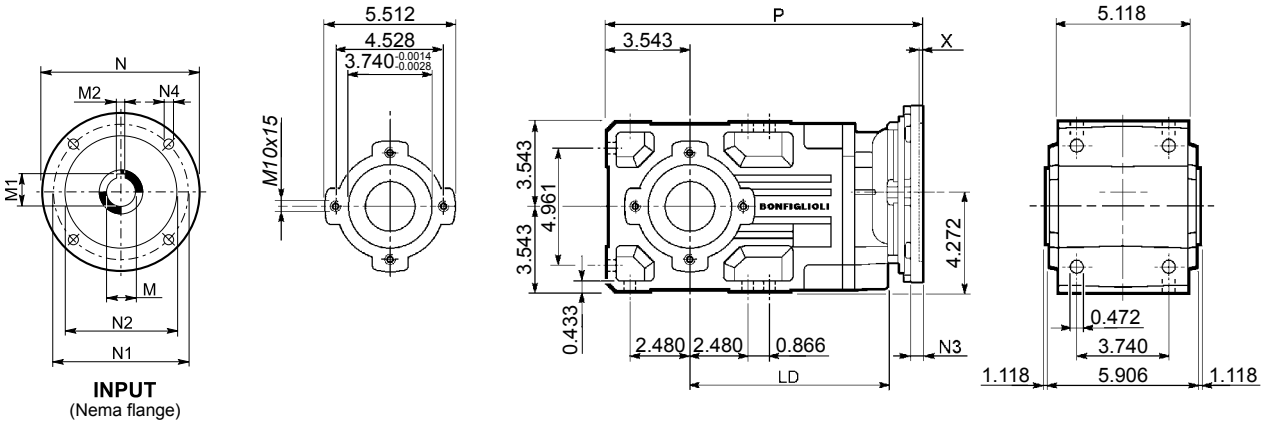


Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 30 2	**P63**	213	11	12.8	4	140	115	95	—	M8x19	4	333	16
A 30 2	**P71**	213	14	16.3	5	160	130	110	—	M8x16	4.5	333	16
A 30 2	**P80**	223	19	21.8	6	200	165	130	—	M10x14.5	4	352.5	17
A 30 2	**P90**	223	24	27.3	8	200	165	130	—	M10x14.5	4	352.5	17
A 30 2	**P100**	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 2	**P112**	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 3	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	390.5	17
A 30 3	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	390.5	17
A 30 3	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	410	18
A 30 3	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	410	18
A 30 3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22
A 30 3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22

Metric output versions available also in combination with NEMA motor adaptor

A 30...N(NEMA Input)

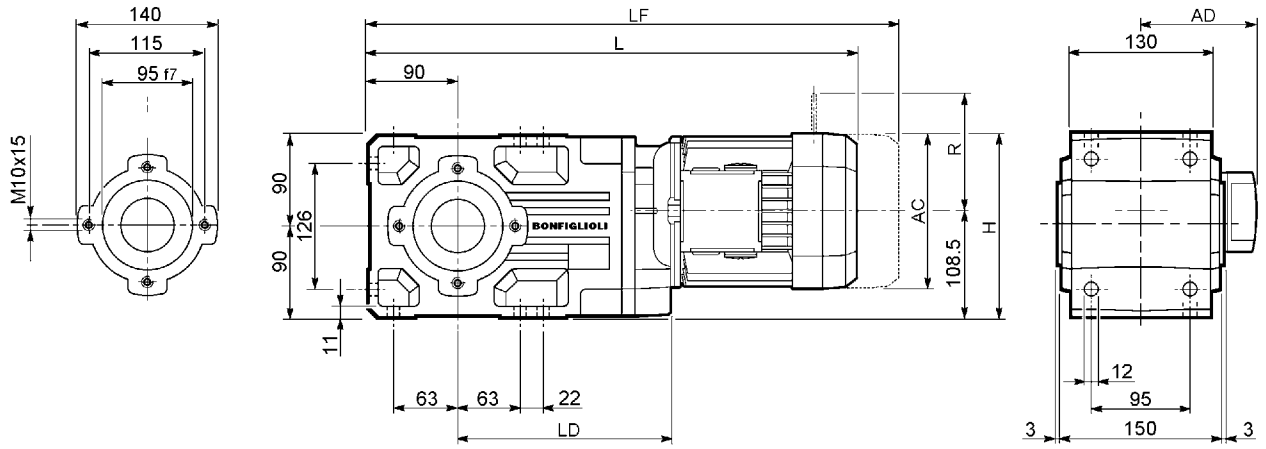


Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 30 2	**N56C**	8.386	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.898	35
A 30 2	**N140TC**	8.386	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.898	37
A 30 2	**N180TC**	8.780	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.724	44
A 30 3	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.161	37
A 30 3	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.161	40
A 30 3	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	16.988	49

Imperial output versions available also in combination with IEC motor adaptor

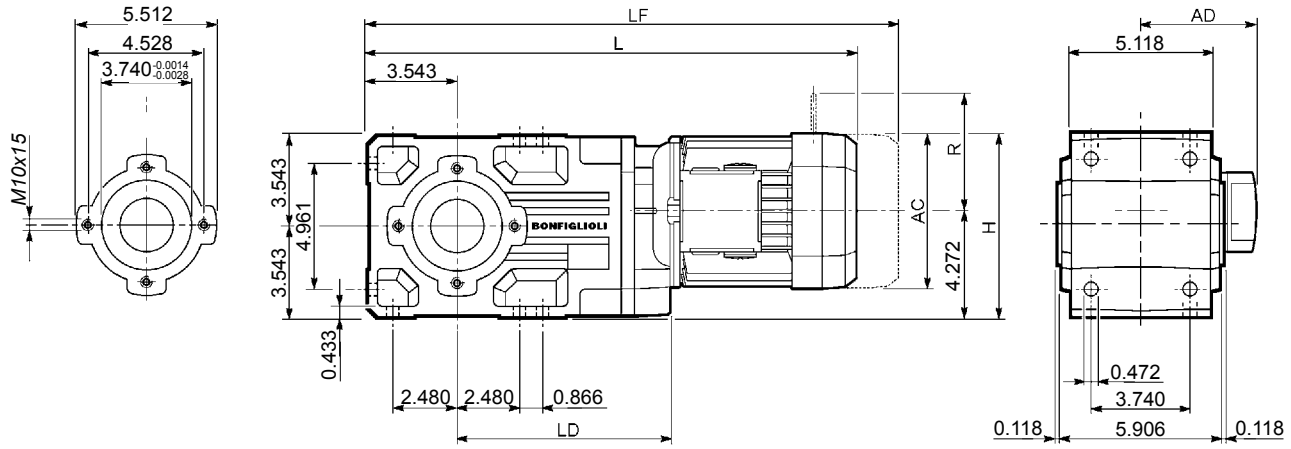
A 30...M/ME/MX



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 30 2	**S1**	**M1**	138	177.5	488	201	108	22	549	24	103	135	124	108
A 30 2	**S1**	**ME1**	138	177.5	488	201	108	22	549	24	103	135	124	135
A 30 2	**S2**	**ME2S**	156	186.5	517	213	119	25	573	27.1	129	143	134	143
A 30 2	**S2**	**MX2S**	156	186.5	561	213	119	30.1	619	34.6	129	143	134	143
A 30 2	**S3**	**ME3S**	195	206	560	223	142	31.5	627	36.4	160	155	160	155
A 30 2	**S3**	**MX3S**	195	206	592	223	142	34.5	656	38.4	160	155	160	155
A 30 2	**S3**	**ME3L**	195	206	592	223	142	38	654	39.6	160	155	160	155
A 30 2	**S3**	**MX3L**	195	206	636	223	142	44	698	50.4	160	155	160	155
A 30 3	**S05**	**M05**	121	169	516.5	—	95	21	582.5	22	96	122	116	95
A 30 3	**S05**	**ME05**	121	169	516.5	—	95	21	582.5	22	96	119	116	119
A 30 3	**S1**	**M1**	138	177.5	545.5	—	108	23	606.5	26	103	135	124	108
A 30 3	**S1**	**ME1**	138	177.5	545.5	—	108	23	606.5	26	103	135	124	135
A 30 3	**S2**	**ME2S**	156	186.5	574.5	—	119	25	630.5	29.1	129	143	134	143
A 30 3	**S2**	**MX2S**	156	186.5	618.5	—	119	30.1	676.5	36.6	129	143	134	143
A 30 3	**S3**	**ME3S**	195	206	617.5	—	142	31.5	684.5	38.4	160	155	160	155
A 30 3	**S3**	**MX3S**	195	206	649.5	—	142	34.5	713.5	40.4	160	155	160	155
A 30 3	**S3**	**ME3L**	195	206	649.5	—	142	38	711.5	41.6	160	155	160	155
A 30 3	**S3**	**MX3L**	195	206	693.5	—	142	44	755.5	52.4	160	155	160	155

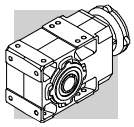
Dimensions are in mm

A 30...M/ME/MX

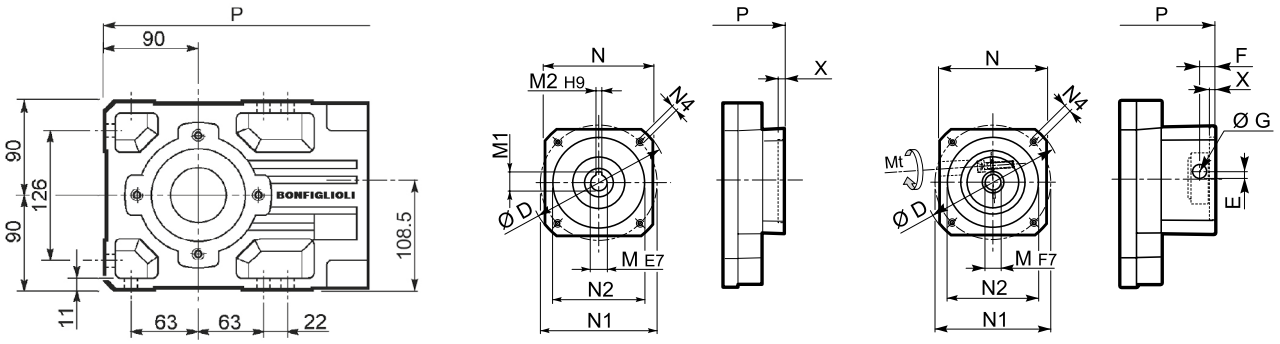


Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 30 2	**S1**	**M1**	5.433	6.988	19.213	7.913	4.252	49	21.614	53	4.055	5.315	4.882	4.252
A 30 2	**S2**	**ME2S**	6.142	7.343	20.354	8.386	4.685	55	—	—	—	—	—	—
A 30 2	**S2**	**MX2S**	6.142	7.343	22.087	8.386	4.685	66	—	—	—	—	—	—
A 30 2	**S3**	**ME3S**	7.677	8.110	22.047	8.780	5.591	69	—	—	—	—	—	—
A 30 2	**S3**	**MX3S**	7.677	8.110	23.307	8.780	5.591	76	—	—	—	—	—	—
A 30 2	**S3**	**ME3L**	7.677	8.110	23.307	8.780	5.591	84	—	—	—	—	—	—
A 30 2	**S3**	**MX3L**	7.677	8.110	25.039	8.780	5.591	97	—	—	—	—	—	—
A 30 3	**S05**	**M05**	4.764	6.654	20.335	—	3.740	46	22.933	49	3.780	4.803	4.567	3.740
A 30 3	**S1**	**M1**	5.433	6.988	21.476	—	4.252	51	23.878	57	4.055	5.315	4.882	4.252
A 30 3	**S2**	**ME2S**	6.142	7.343	22.618	—	4.685	55	—	—	—	—	—	—
A 30 3	**S2**	**MX2S**	6.142	7.343	24.350	—	4.685	66	—	—	—	—	—	—
A 30 3	**S3**	**ME3S**	7.677	8.110	24.311	—	5.591	69	—	—	—	—	—	—
A 30 3	**S3**	**MX3S**	7.677	8.110	25.571	—	5.591	76	—	—	—	—	—	—
A 30 3	**S3**	**ME3L**	7.677	8.110	25.571	—	5.591	84	—	—	—	—	—	—
A 30 3	**S3**	**MX3L**	7.677	8.110	27.303	—	5.591	97	—	—	—	—	—	—



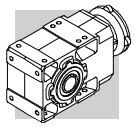
A 30...SK / SC



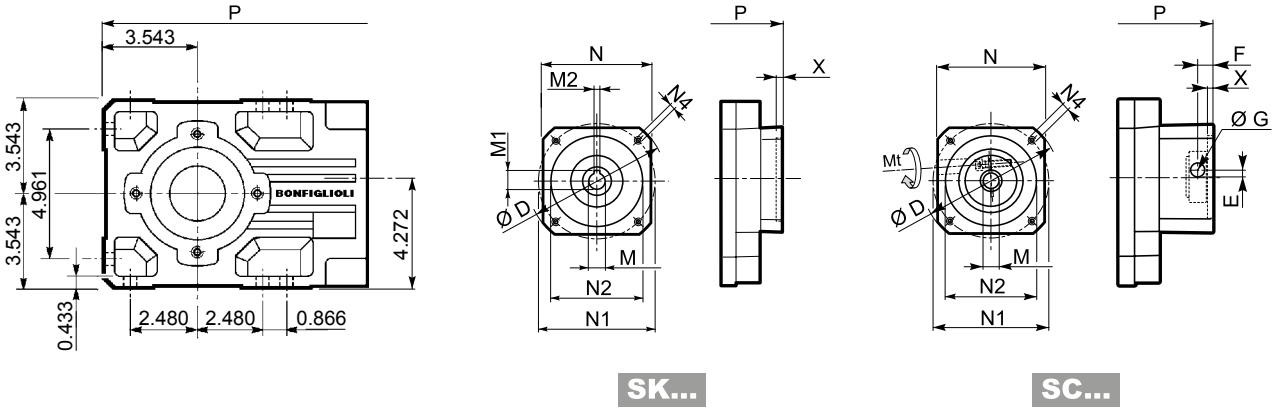
Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 30 2/3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	304.5	362	15/16
A 30 2/3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	311.5	369	16/17
A 30 2/3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	311.5	369	16/17
A 30 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	352.5	410	17/18
A 30 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	352.5	410	17/18
A 30 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	352.5	410	17/18
A 30 2	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	352.5	—	18

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 30 2/3	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	331.5	389	16/17
A 30 2/3	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	331.5	389	17/18
A 30 2/3	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	331.5	389	17/18
A 30 2/3	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	376	433.5	18/19
A 30 2/3	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	376	433.5	19/20
A 30 2/3	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	376	433.5	19/20
A 30 2	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	376	—	20



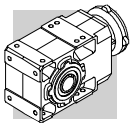
A 30...SK / SC



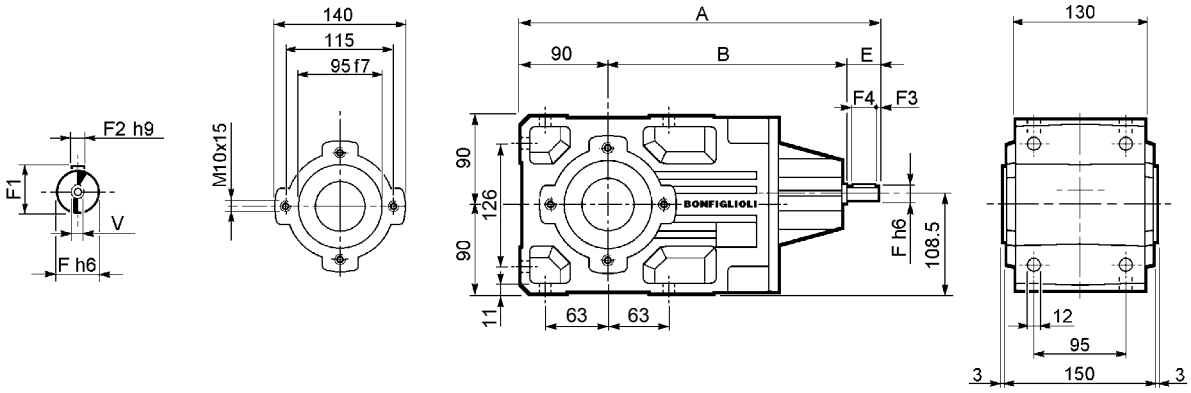
Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 30 2/3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	11.988	14.252	33/35
A 30 2/3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	12.264	14.528	35/37
A 30 2/3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	12.264	14.528	35/37
A 30 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.878	16.142	37/40
A 30 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.878	16.142	37/40
A 30 2	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	13.878	—	40

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 30 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	13.051	15.315	35/37
A 30 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	13.051	15.315	37/40
A 30 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	13.051	15.315	37/40
A 30 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	14.803	17.067	40/42
A 30 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	14.803	17.067	40/42
A 30 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.803	17.067	40/42
A 30 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.803	17.067	40/42
A 30 2/3	**SC 110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.803	17.067	42/44
A 30 2/3	**SC 110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.803	17.067	42/44
A 30 2	**SC 130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	14.803	—	44



A 30...HS

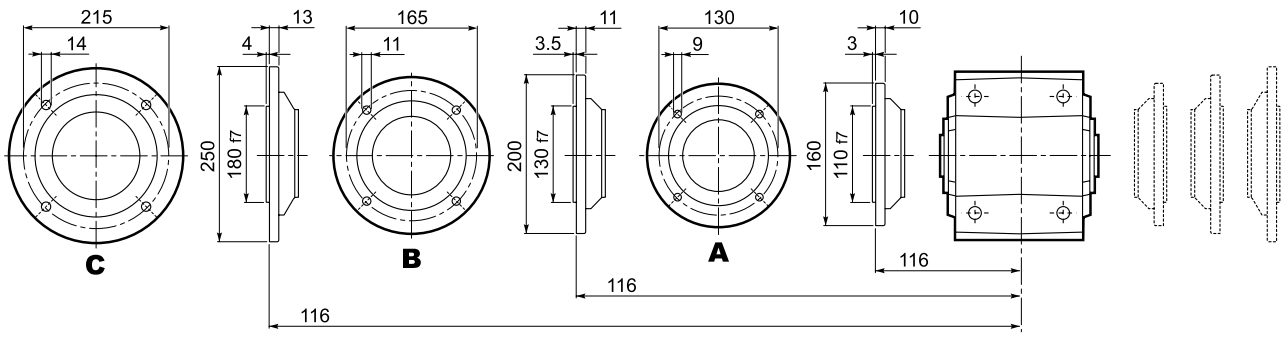


Dimensions are in mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 30 2	**HS**	383	253	40	19	21.5	6	2.5	35	M6x16	16.7
A 30 3		397.5	267.5	40	16	18	5	2.5	35	M6x16	16.5

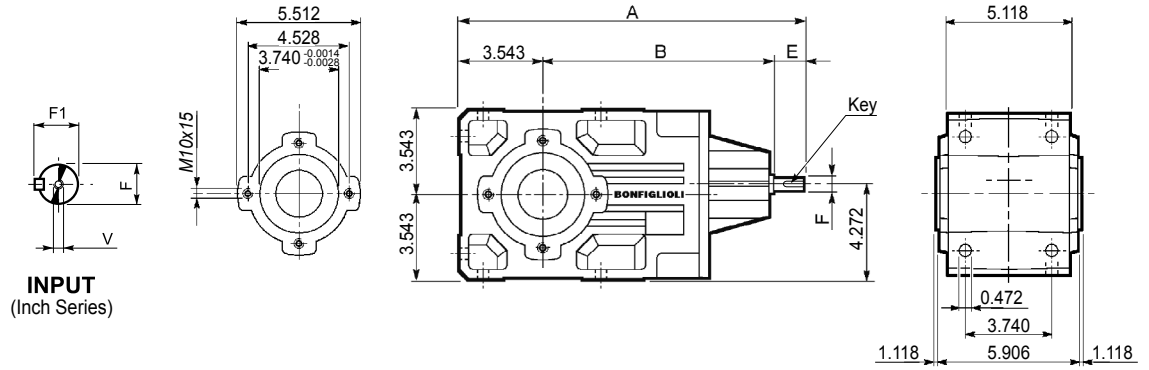
Metric output versions available also in combination with NHS input

A 30...F...



Bonfiglioli Riduttori

A 30...NHS



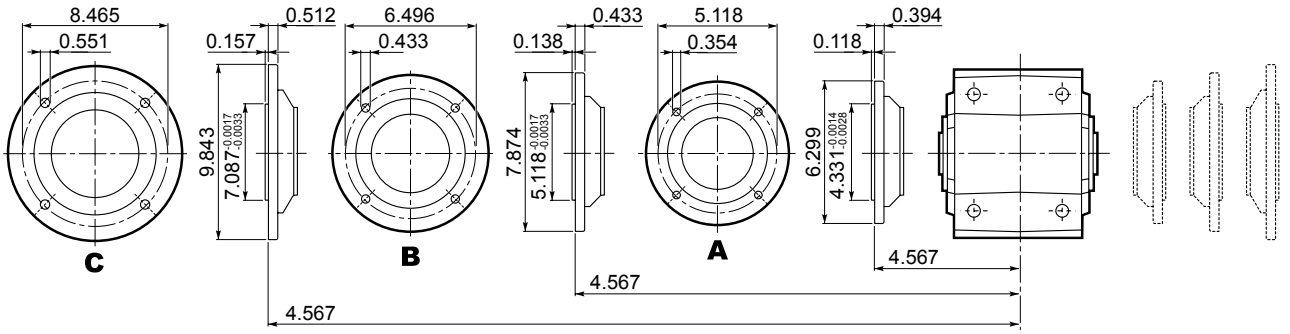
INPUT
(Inch Series)

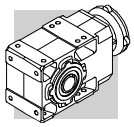
Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 30 2	**NHS**	15.079	9.961	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
A 30 3	**NHS**	15.650	10.531	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	36

Imperial output versions available also in combination with HS input

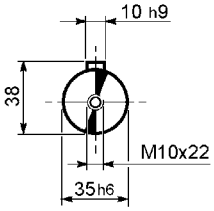
A 30...F...

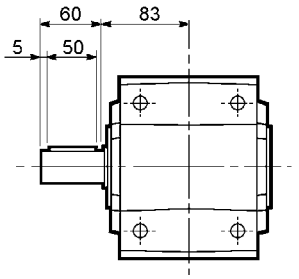




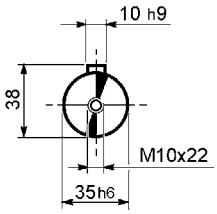
A 30

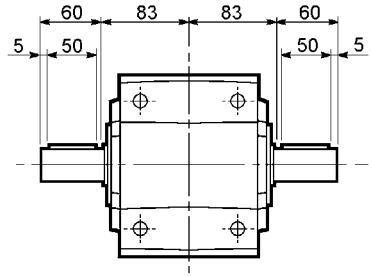
A 30...UR



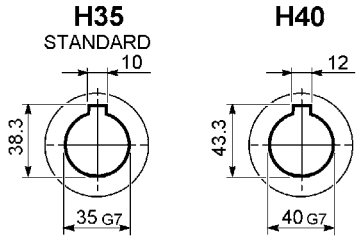


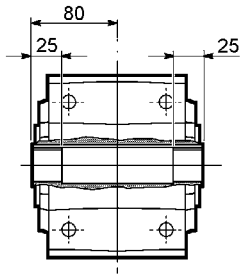
A 30...UD



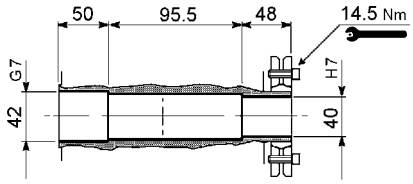


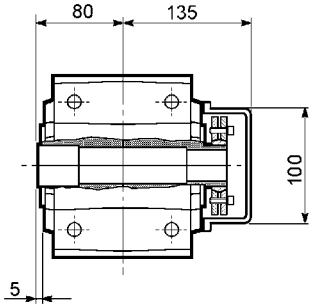
A 30...UH





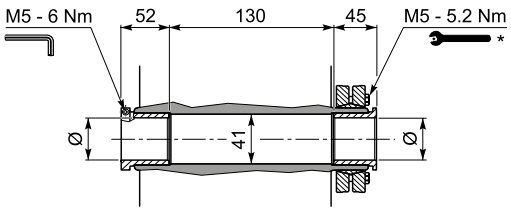
A 30...US

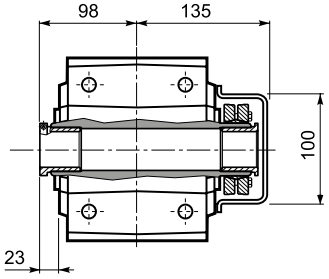




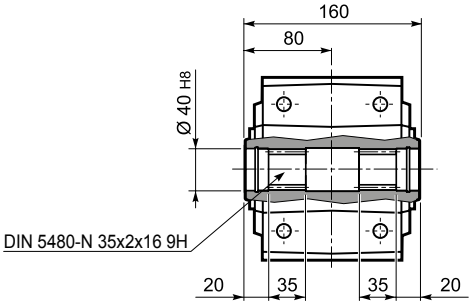
A 30...QF

	Ø
QF35	35
QF40	40

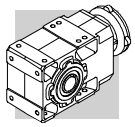




A 30...UV



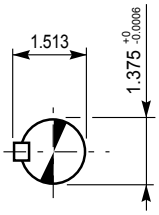
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

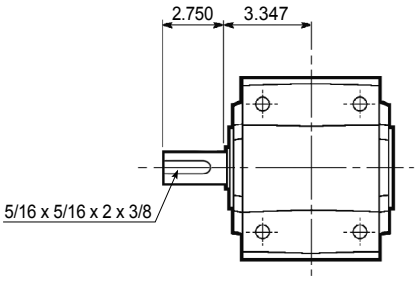


A 30

A 30...NUR

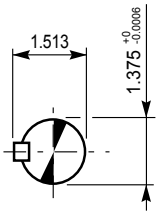
OUTPUT
(Inch Series)

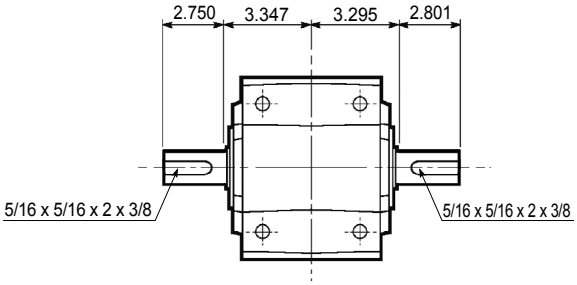




A 30...NUD

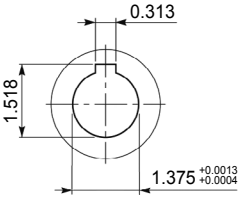
OUTPUT
(Inch Series)

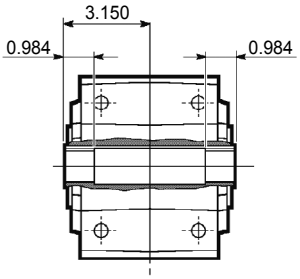




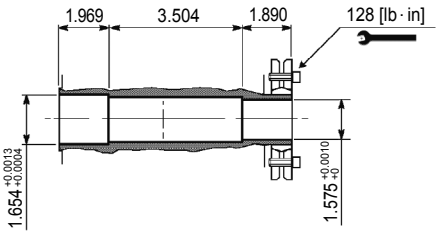
A 30...NUH

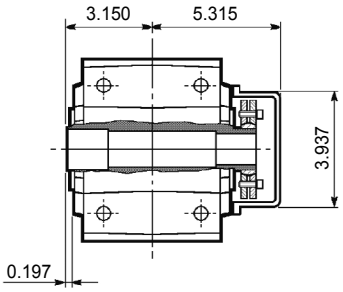
OUTPUT
(Inch Series)



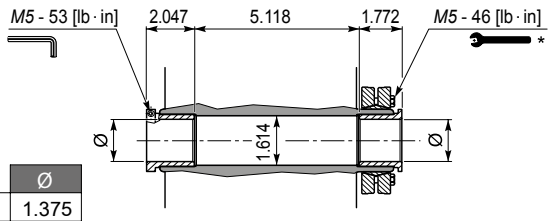


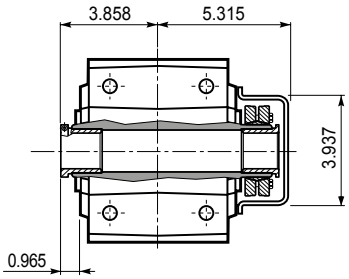
A 30...US





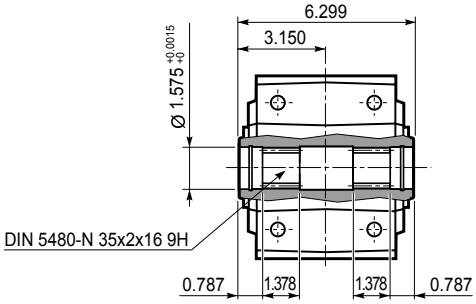
A 30...NQF





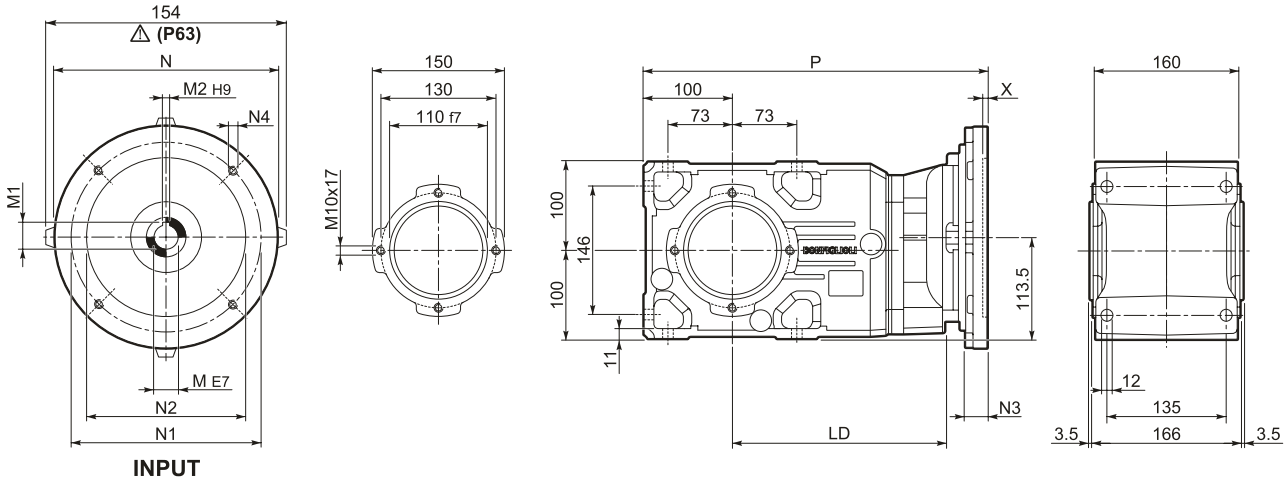
	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438

A 30...UV



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

A 35...P(IEC)

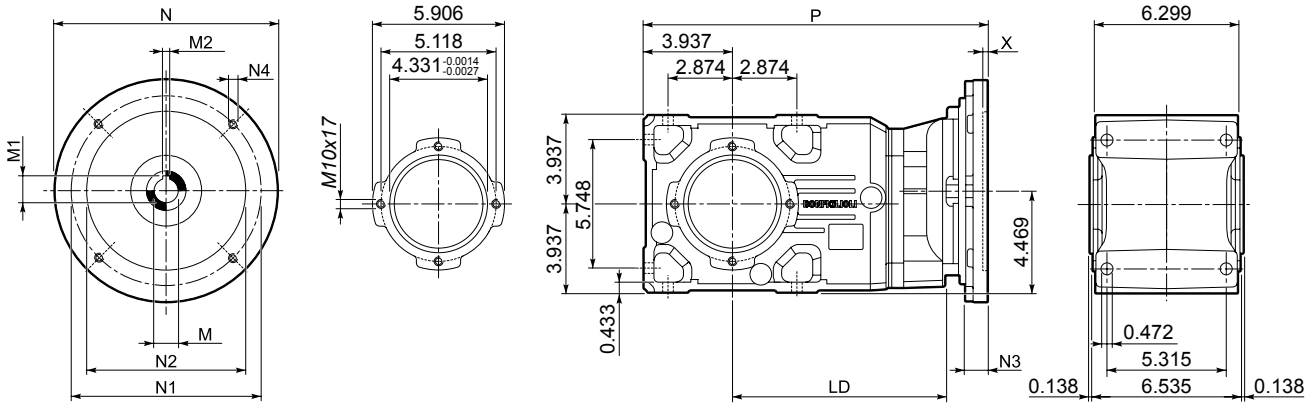


Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 35 2	**P63**	229.5	11	12.8	4	140	115	95	—	M8x19	4	359.5	28
A 35 2	**P71**	229.5	14	16.3	5	160	130	110	—	M8x16	4.5	359.5	28
A 35 2	**P80**	239.5	19	21.8	6	200	165	130	—	M10x14.5	4	379	29
A 35 2	**P90**	239.5	24	27.3	8	200	165	130	—	M10x14.5	4	379	29
A 35 2	**P100**	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	**P112**	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	**P132**	—	38	41.3	10	300	265	230	16	14	5	425.5	40
A 35 3	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	417	29
A 35 3	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	417	29
A 35 3	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	436.5	30
A 35 3	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	436.5	30
A 35 3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34
A 35 3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34

Metric output versions available also in combination with NEMA motor adaptor

A 35...N(NEMA Input)

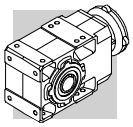


INPUT
(Nema flange)

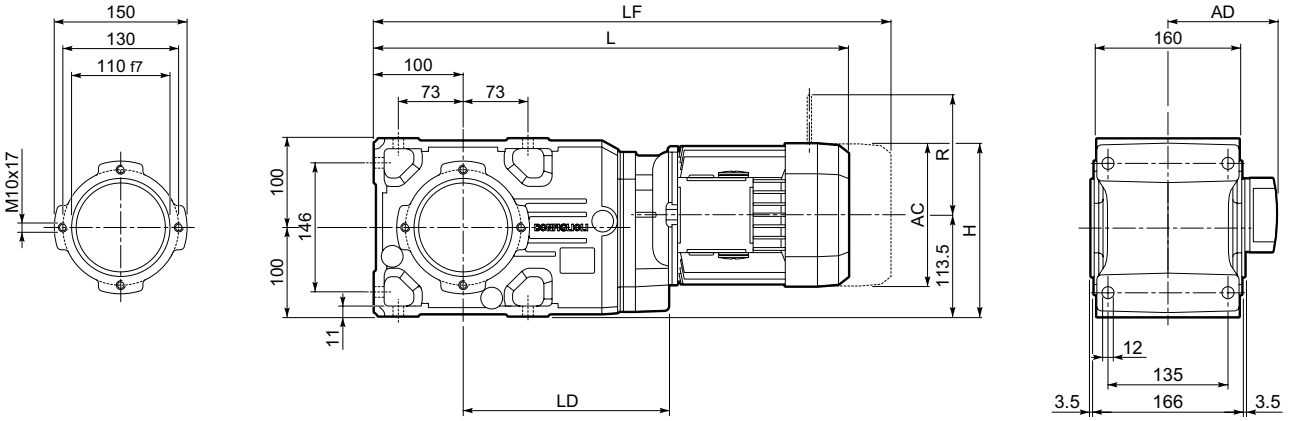
Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 35 2	**N56C**	9.035	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	14.941	62
A 35 2	**N140TC**	9.035	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	14.941	64
A 35 2	**N180TC**	9.429	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	15.768	71
A 35 2	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	16.929	88
A 35 3	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 35 3	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 35 3	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	18.031	75

Imperial output versions available also in combination with IEC motor adaptor

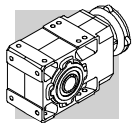


A 35...M/ME/MX

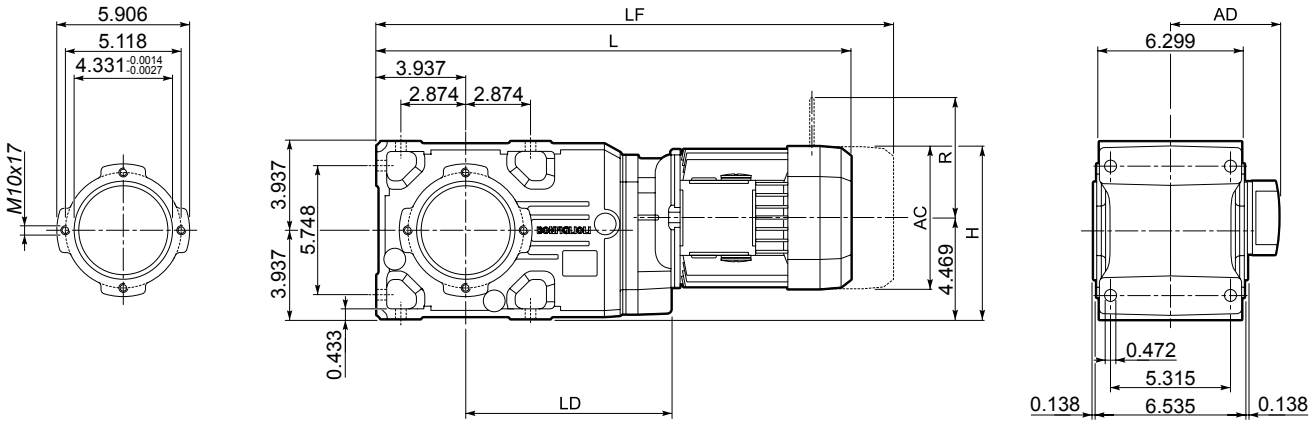


Dimensions are in mm

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 35 2	**S1**	**M1**		138	182.5	514.5	217.5	108	34	575.5	36	103	135	124	108
A 35 2	**S1**	**ME1**		138	182.5	514.5	217.5	108	34	575.5	36	103	135	124	135
A 35 2	**S2**	**ME2S**		156	191.5	543.5	229.5	119	37	599.5	39.1	129	143	134	143
A 35 2	**S2**	**MX2S**		156	191.5	587.5	229.5	119	37	645.5	46.3	129	143	134	143
A 35 2	**S3**	**ME3S**		195	211	586.5	239.5	142	43.5	653.5	48.4	160	155	160	155
A 35 2	**S3**	**MX3S**		195	211	618.5	239.5	142	43.5	682.5	50.4	160	155	160	155
A 35 2	**S3**	**ME3L**		195	211	618.5	239.5	142	50	680.5	51.6	160	155	160	155
A 35 2	**S3**	**MX3L**		195	211	652.5	239.5	142	50	724.5	57.4	160	155	160	155
A 35 2	**S4**	**ME4**	**MX4**	258	242.5	726.5	—	193	89	797.5	72.4	204	210	200	210
A 35 2	**S4**	**ME4LB**	**MX4LA**	258	242.5	761.5	—	193	97	822.5	81.4	226	210	217	210
A 35 3	**S05**	**M05S**		121	174	543	—	95	33	609	34	96	122	116	95
A 35 3	**S05**	**ME05S**		121	174	543	—	95	33	609	34	96	119	116	119
A 35 3	**S1**	**M1**		138	182.5	572	—	108	35	633	38	103	135	124	108
A 35 3	**S1**	**M1**		138	182.5	572	—	108	35	633	38	103	135	124	135
A 35 3	**S2**	**ME2S**		156	191.5	601	—	119	37	657	41.1	129	143	134	143
A 35 3	**S2**	**MX2S**		156	191.5	645	—	119	37	703	48.3	129	143	134	143
A 35 3	**S3**	**ME3S**		195	211	644	—	142	43.5	711	50.4	160	155	160	155
A 35 3	**S3**	**MX3S**		195	211	676	—	142	43.5	740	52.4	160	155	160	155
A 35 3	**S3**	**ME3L**		195	211	676	—	142	50	738	53.6	160	155	160	155
A 35 3	**S3**	**MX3L**		195	211	720	—	142	50	782	59.4	160	155	160	155



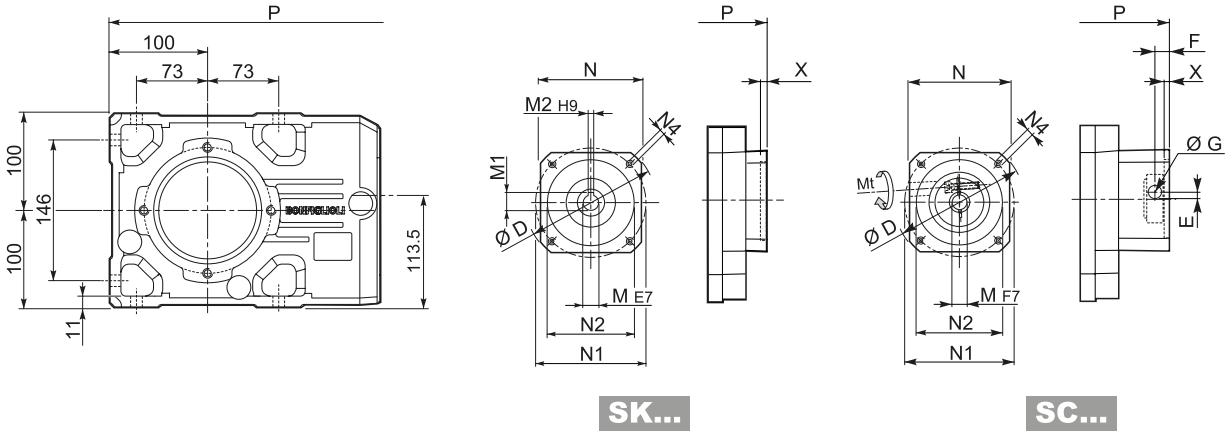
A 35...M/ME/MX



Dimensions are in Inch except when shown in *italic [mm]*

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 35 2	**S1**	**M1**		5.433	7.185	20.256	8.563	4.252	75	22.657	79	4.055	5.315	4.882	4.252
A 35 2	**S2**	**ME2S**		6.142	7.539	21.398	9.035	4.685	82	—	—	—	—	—	—
A 35 2	**S2**	**MX2S**		6.142	7.539	23.130	9.035	4.685	82	—	—	—	—	—	—
A 35 2	**S3**	**ME3S**		7.677	8.307	23.091	9.429	5.591	96	—	—	—	—	—	—
A 35 2	**S3**	**MX3S**		7.677	8.307	24.350	9.429	5.591	96	—	—	—	—	—	—
A 35 2	**S3**	**ME3L**		7.677	8.307	24.350	9.429	5.591	110	—	—	—	—	—	—
A 35 2	**S3**	**MX3L**		7.677	8.307	25.689	9.429	5.591	110	—	—	—	—	—	—
A 35 2	**S4**	**ME4**	**MX4**	10.157	9.547	28.602	—	7.598	196	—	—	—	—	—	—
A 35 2	**S4**	**ME4LB**	**MX4LA**	10.157	9.547	29.980	—	7.598	214	—	—	—	—	—	—
A 35 3	**S05**	**M05S**		4.764	6.850	21.378	—	3.740	73	23.976	75	3.780	4.803	4.567	3.740
A 35 3	**S1**	**M1**		5.433	7.185	22.520	—	4.252	77	24.921	84	4.055	5.315	4.882	4.252
A 35 3	**S2**	**ME2S**		6.142	7.539	23.661	—	4.685	82	—	—	—	—	—	—
A 35 3	**S2**	**MX2S**		6.142	7.539	25.394	—	4.685	82	—	—	—	—	—	—
A 35 3	**S3**	**ME3S**		7.677	8.307	25.354	—	5.591	96	—	—	—	—	—	—
A 35 3	**S3**	**MX3S**		7.677	8.307	26.614	—	5.591	96	—	—	—	—	—	—
A 35 3	**S3**	**ME3L**		7.677	8.307	26.614	—	5.591	110	—	—	—	—	—	—
A 35 3	**S3**	**MX3L**		7.677	8.307	28.346	—	5.591	110	—	—	—	—	—	—

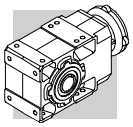
A 35...SK / SC



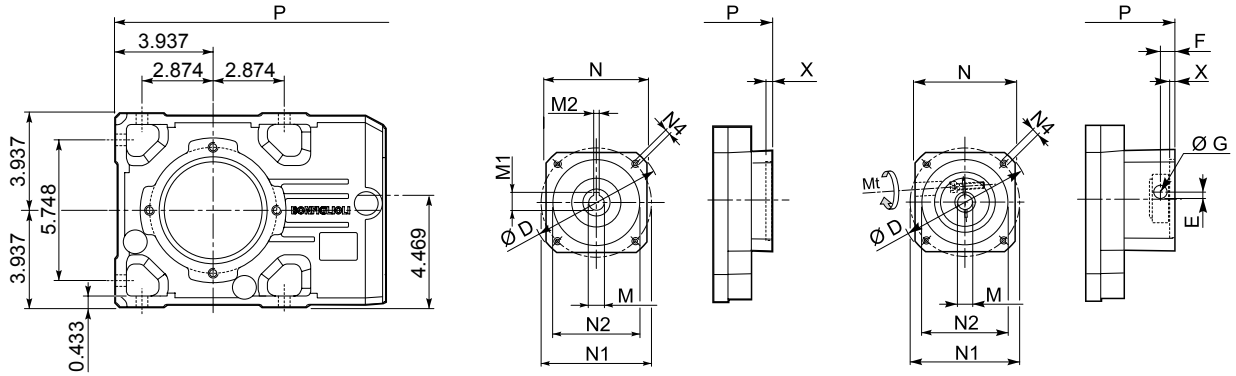
Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 35 2/3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	331	388.5	27/28
A 35 2/3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	338	395.5	28/29
A 35 2/3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	338	395.5	28/29
A 35 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	379	436.5	29/30
A 35 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	379	436.5	29/30
A 35 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	379	436.5	29/30
A 35 2	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	379	—	30

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 35 2/3	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	358	415.5	28/29
A 35 2/3	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	358	415.5	29/30
A 35 2/3	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	358	415.5	29/30
A 35 2/3	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	402.5	460	30/31
A 35 2/3	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	402.5	460	32/33
A 35 2/3	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	402.5	460	32/33
A 35 2	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	402.5	—	33



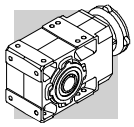
A 35...SK / SC



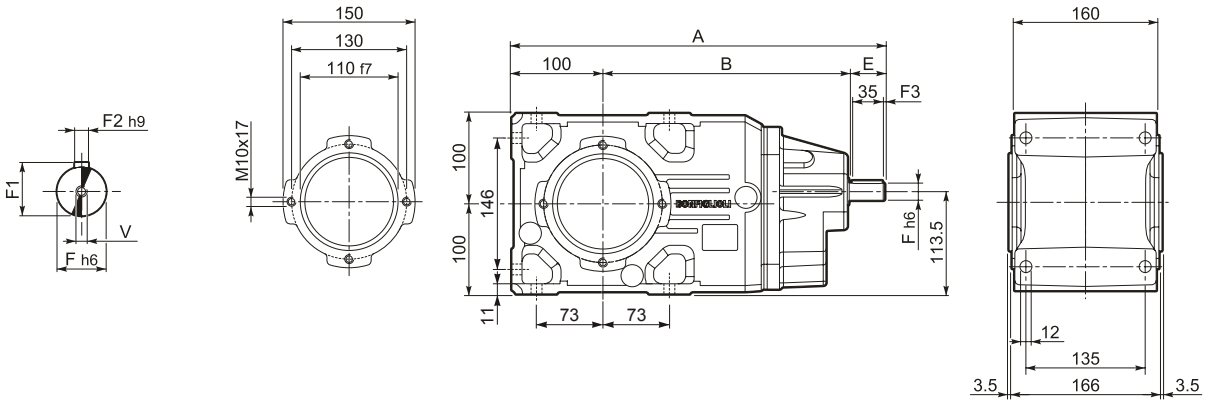
Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 35 2/3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	M5x10	0.138	13.031	15.295	60/62
A 35 2/3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	M5x10	0.157	13.307	15.571	62/64
A 35 2/3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	M6x12	0.157	13.307	15.571	62/64
A 35 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	M6x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	M8x12	0.197	14.921	17.185	64/66
A 35 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	M8x12	0.197	14.921	17.185	64/66
A 35 2	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	M10x20	0.197	14.921	—	66

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 35 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	M5x10	0.157	14.094	16.358	62/64
A 35 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	M5x10	0.157	14.094	16.358	64/66
A 35 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	M6x12	0.157	14.094	16.358	64/66
A 35 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	M6x12	0.157	15.846	18.110	66/68
A 35 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
A 35 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
A 35 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
A 35 2/3	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	M8x16	0.197	15.846	18.110	71/73
A 35 2/3	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	M8x16	0.197	15.846	18.110	71/73
A 35 2	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	M10x20	0.197	15.846	—	73



A 35...HS

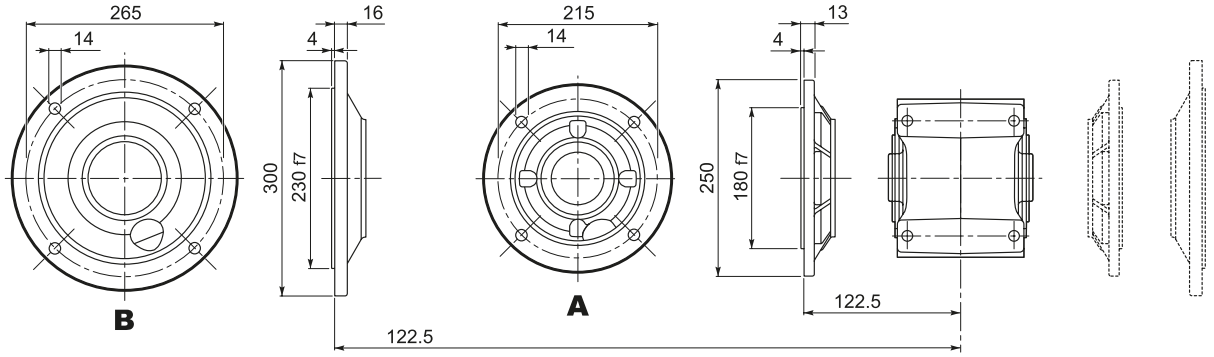


Dimensions are in mm

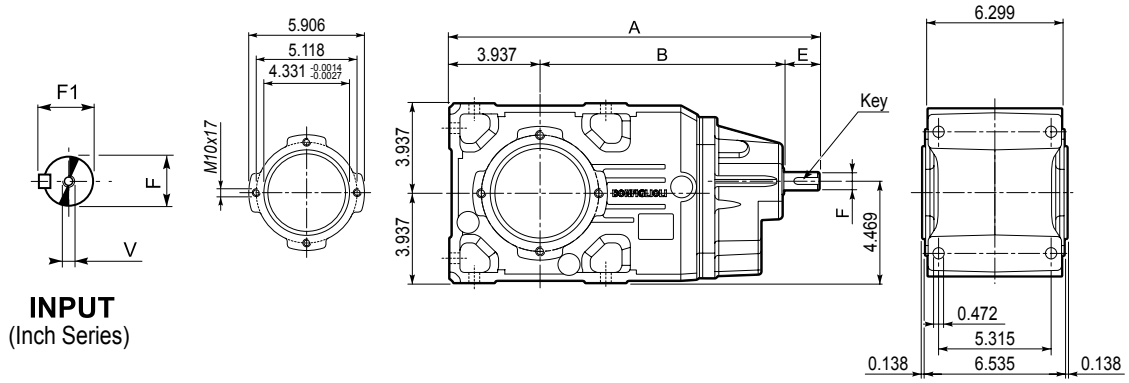
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 35 2	**HS**	409.5	269.5	40	19	21.5	6	2.5	35	M6x16	29
A 35 3		424	284	40	16	18	5	2.5	35	M6x16	29

Metric output versions available also in combination with NHS input

A 35...F...



A 35...NHS



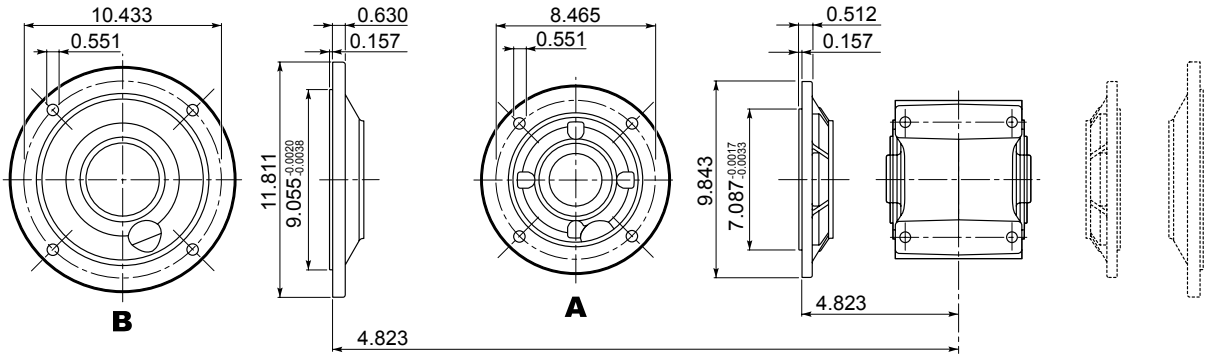
INPUT
(Inch Series)

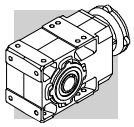
Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 35 2	**NHS**	16.122	10.610	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	64
A 35 3	**NHS**	16.693	11.181	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	64

Imperial output versions available also in combination with HS input

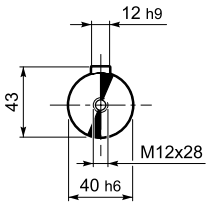
A 35...F...

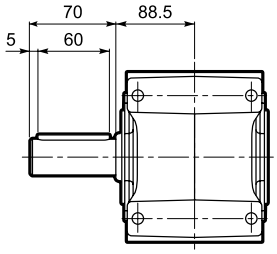




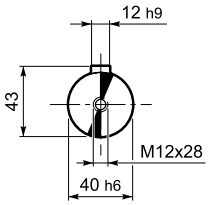
A 35

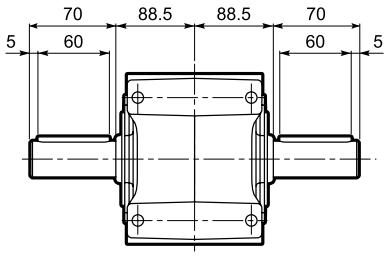
A 35...UR



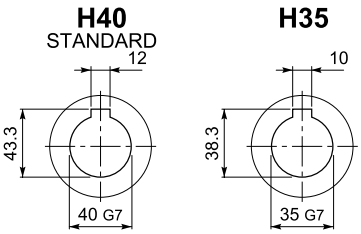


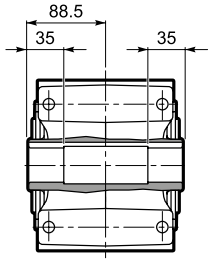
A 35...UD



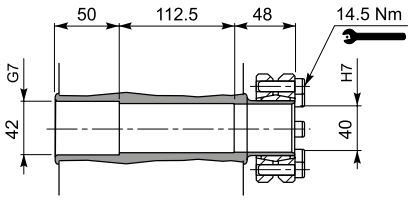


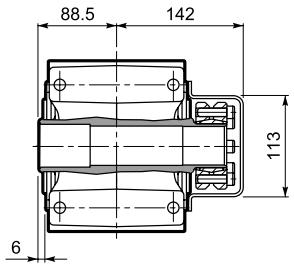
A 35...UH





A 35...US

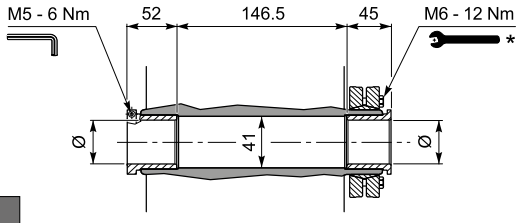


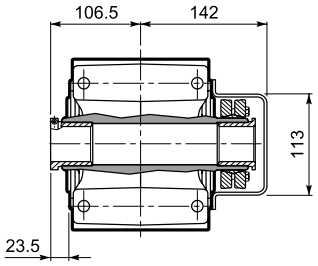


A 35...QF

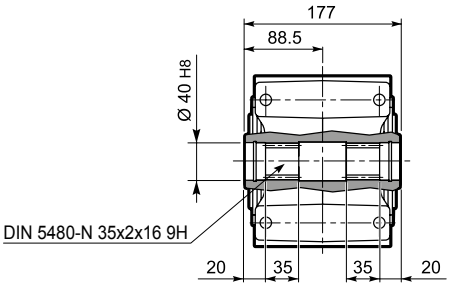
	Ø
QF35	35
QF40	40

$M_{n2\ max}$ [Nm]	
A 35 QF35	550

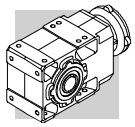




A 35...UV

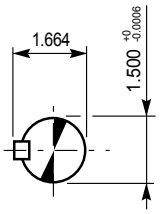


* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

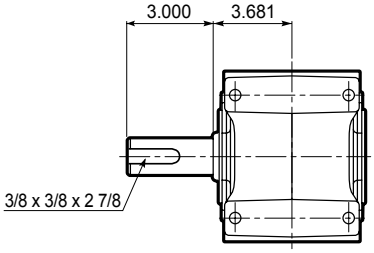


A 35

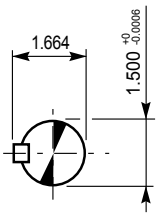
A 35...NUR



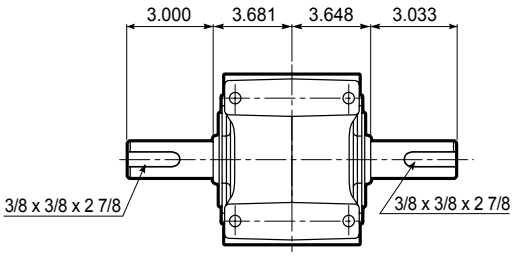
OUTPUT
(Inch Series)



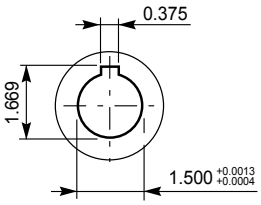
A 35...NUD



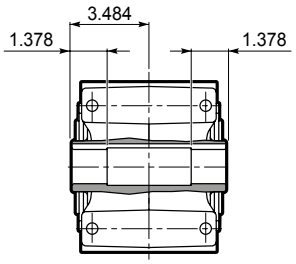
OUTPUT
(Inch Series)



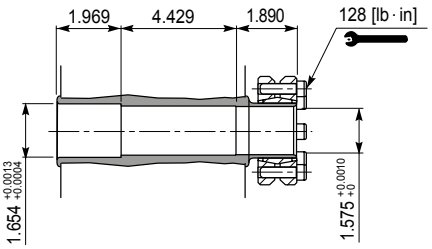
A 35...NUH

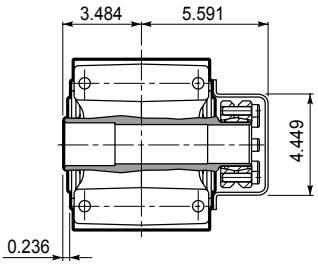


OUTPUT
(Inch Series)

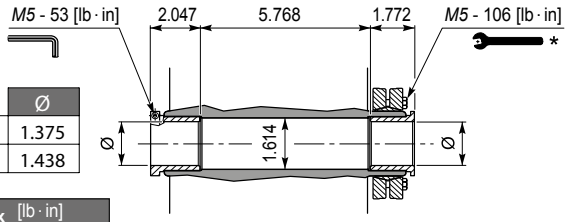


A 35...US



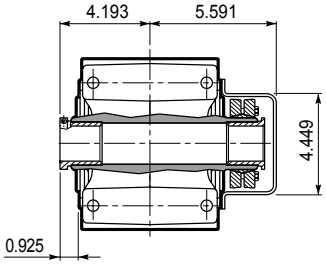


A 35...NQF

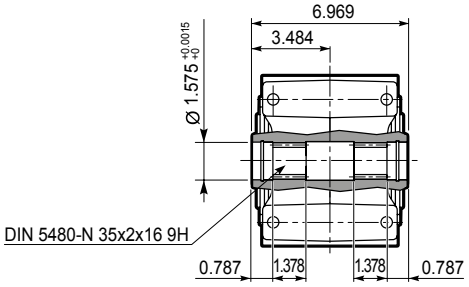


	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438

$T_{n2\ max}$ [lb · in]	
A 35 NQF1-3/8	4872

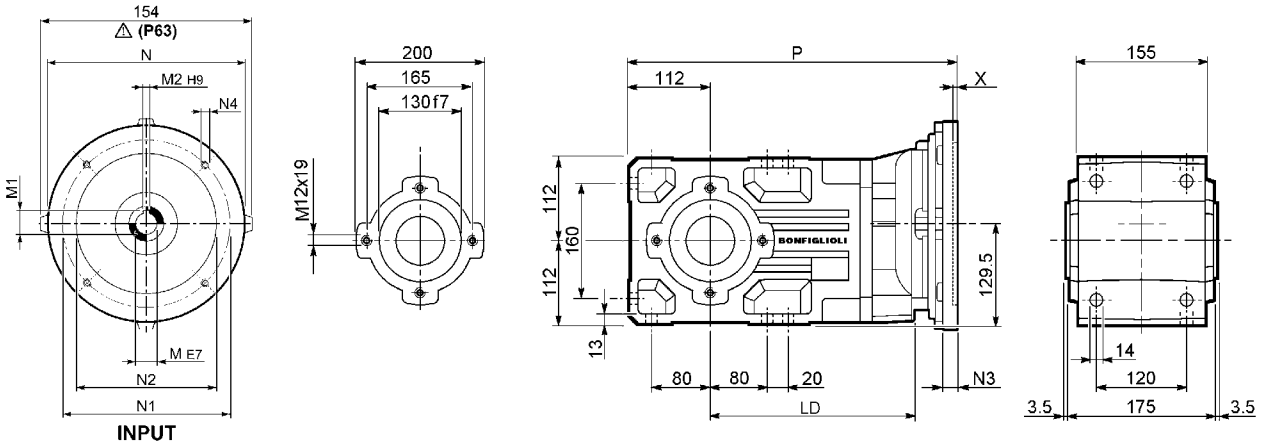


A 35...UV



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

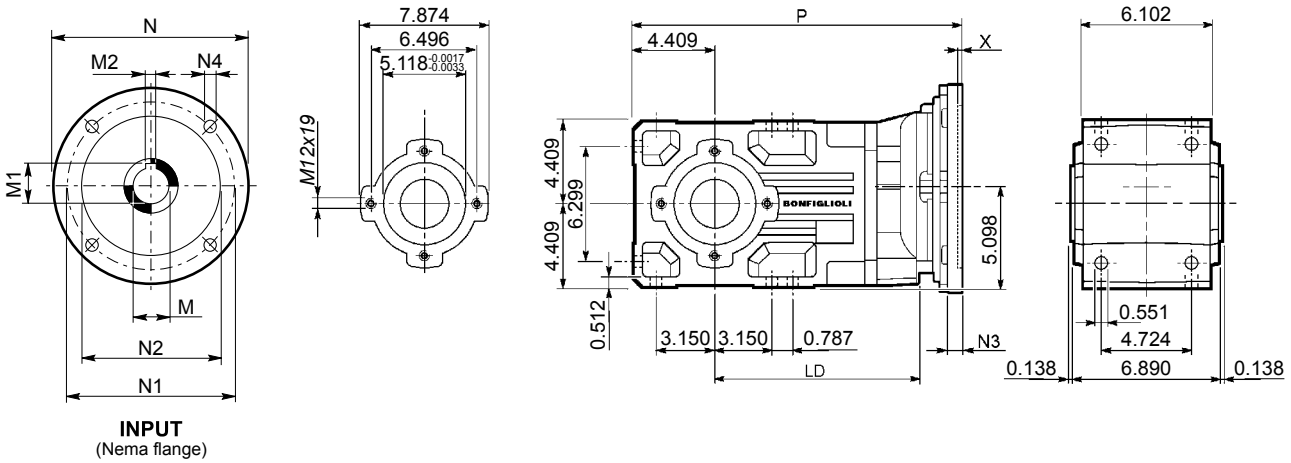
A 41...P(IEC)



Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 41 2	**P63**	232	11	12.8	4	140	115	95	—	M8x19	4	375	37
A 41 2	**P71**	232	14	16.3	5	160	130	110	—	M8x16	4.5	375	38
A 41 2	**P80**	248	19	21.8	6	200	165	130	—	M10x14.5	4	394.5	39
A 41 2	**P90**	248	24	27.3	8	200	165	130	—	M10x14.5	4	394.5	39
A 41 2	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	**P132**	—	38	41.3	10	300	265	230	16	14	5	441	46
A 41 3	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	436.5	39
A 41 3	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	436.5	39
A 41 3	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	456	40
A 41 3	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	456	40
A 41 3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44
A 41 3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44

Metric output versions available also in combination with NEMA motor adaptor



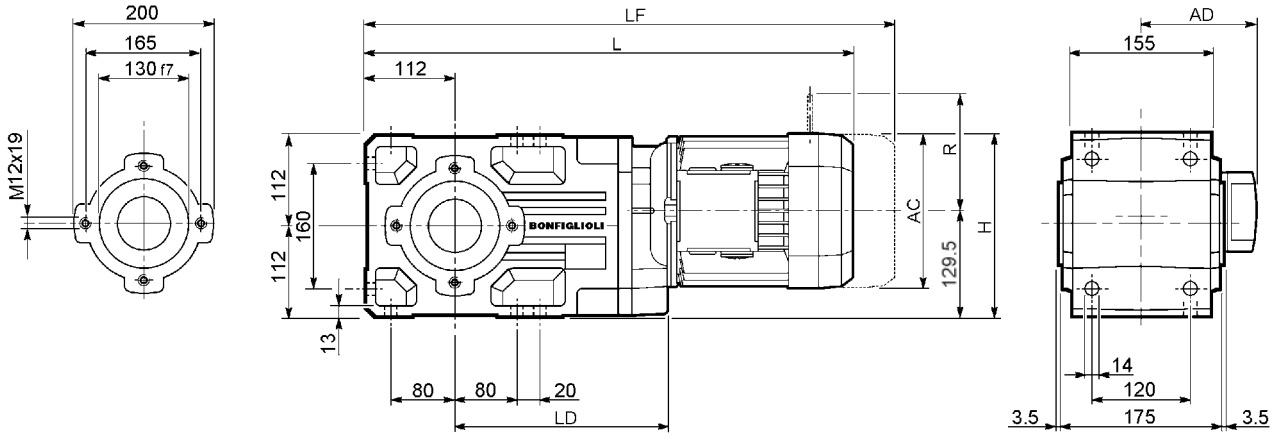
INPUT
(Nema flange)

Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 41 2	**N56C**	9.035	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	14.941	62
A 41 2	**N140TC**	9.035	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	14.941	64
A 41 2	**N180TC**	9.429	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	15.768	71
A 41 2	**N210TC**	—	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	16.929	88
A 41 3	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 41 3	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 41 3	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	18.031	75

Imperial output versions available also in combination with IEC motor adaptor

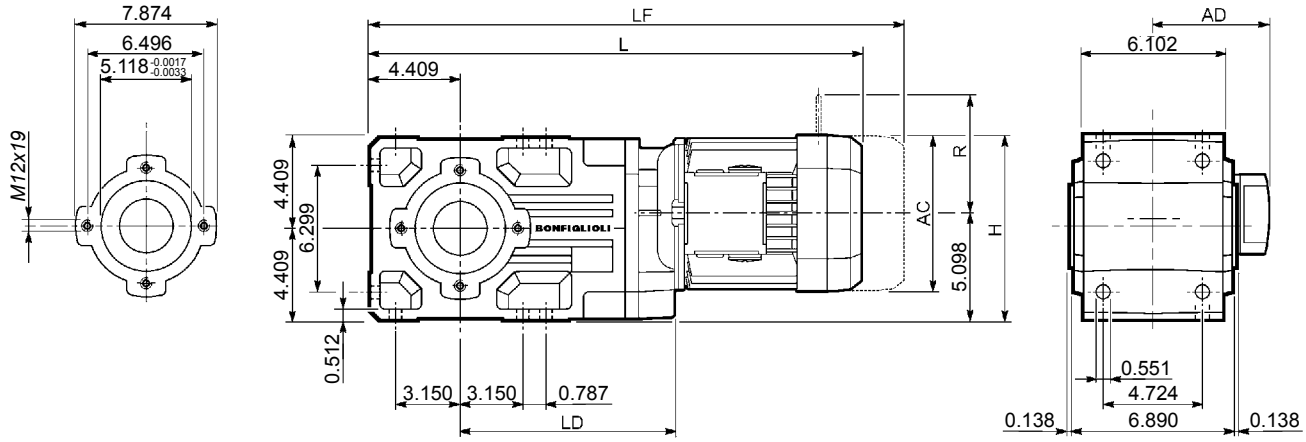
A 41...M/ME/MX



										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 41 2	**S1**	**M1**		138	198.5	530	216.5	108	41	591	44	103	135	124	108
A 41 2	**S1**	**ME1**		138	198.5	530	216.5	108	41	591	44	103	135	124	135
A 41 2	**S2**	**ME2S**		156	207.5	559	232	119	45	615	46.8	129	143	134	143
A 41 2	**S2**	**MX2S**		156	207.5	603	232	119	50.1	661	53.7	129	143	134	143
A 41 2	**S3**	**ME3S**		195	227	602	248	142	51.5	669	55.8	160	155	160	155
A 41 2	**S3**	**MX3S**		195	227	634	248	142	54.5	698	60.8	160	155	160	155
A 41 2	**S3**	**ME3L**		195	227	634	248	142	58	696	62.3	160	155	160	155
A 41 2	**S3**	**MX3L**		195	227	678	248	142	64	740	69.8	160	155	160	155
A 41 2	**S4**	**ME4**	**MX4**	258	258.5	742	—	193	92	813	81.8	204	210	200	210
A 41 2	**S4**	**ME4LB**	**MX4LA**	258	258.5	777	—	193	100	813	113.8	226	210	217	210
A 41 3	**S05**	**M05**		121	245	562.5	—	95	44	628.5	46	96	122	116	95
A 41 3	**S05**	**ME05**		121	245	562.5	—	95	44	628.5	46	96	119	116	119
A 41 3	**S1**	**M1**		138	198.5	591.5	—	108	46	652.5	49	103	135	124	108
A 41 3	**S1**	**ME1**		138	198.5	591.5	—	108	46	652.5	49	103	135	124	135
A 41 3	**S2**	**ME2S**		156	207.5	620.5	—	119	50	676.5	51.5	129	143	134	143
A 41 3	**S2**	**MX2S**		156	207.5	664.5	—	119	55.1	722.5	58.7	129	143	134	143
A 41 3	**S3**	**ME3S**		195	227	663.5	—	142	56.5	730.5	60.8	160	155	160	155
A 41 3	**S3**	**MX3S**		195	227	695.5	—	142	59.5	759.5	65.8	160	155	160	155
A 41 3	**S3**	**ME3L**		195	227	695.5	—	142	61	757.5	67.3	160	155	160	155
A 41 3	**S3**	**MX3L**		195	227	739.5	—	142	67	801.5	74.8	160	155	160	155

Dimensions are in mm

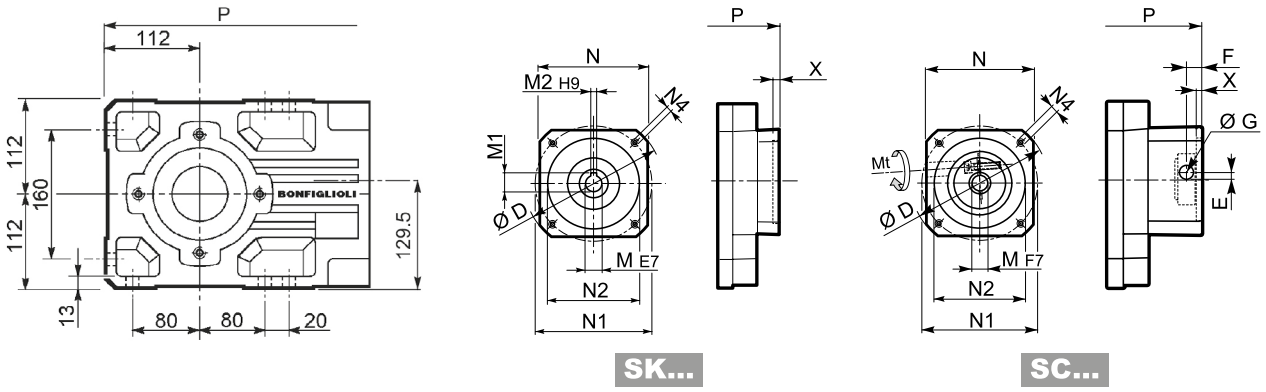
A 41...M/ME/MX



Dimensions are in Inch except when shown in *italic [mm]*

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 41 2	**S1**	**M1**		5.433	7.185	20.256	8.563	4.252	90	22.657	79	4.055	5.315	4.882	4.252
A 41 2	**S2**	**ME2S**		6.142	7.539	21.398	9.035	4.685	99	—	—	—	—	—	—
A 41 2	**S2**	**MX2S**		6.142	7.539	23.740	9.035	4.685	110	—	—	—	—	—	—
A 41 2	**S3**	**ME3S**		7.677	8.307	23.091	9.429	5.591	114	—	—	—	—	—	—
A 41 2	**S3**	**MX3S**		7.677	8.307	24.961	9.429	5.591	120	—	—	—	—	—	—
A 41 2	**S3**	**ME3L**		7.677	8.307	24.350	9.429	5.591	128	—	—	—	—	—	—
A 41 2	**S3**	**MX3L**		7.677	8.307	26.693	9.429	5.591	141	—	—	—	—	—	—
A 41 2	**S4**	**ME4**	**MX4**	10.157	9.547	28.602	—	7.598	203	—	—	—	—	—	—
A 41 2	**S4**	**ME4LB**	**MX4LA**	10.157	9.547	29.980	—	7.598	220	—	—	—	—	—	—
A 41 3	**S05**	**M05**		4.764	6.850	21.378	—	3.740	97	23.976	75	3.780	4.803	4.567	3.740
A 41 3	**S1**	**M1**		5.433	7.185	22.520	—	4.252	101	24.921	84	4.055	5.315	4.882	4.252
A 41 3	**S2**	**ME2S**		6.142	7.539	23.661	—	4.685	110	—	—	—	—	—	—
A 41 3	**S2**	**MX2S**		6.142	7.539	26.161	—	4.685	121	—	—	—	—	—	—
A 41 3	**S3**	**ME3S**		7.677	8.307	25.354	—	5.591	125	—	—	—	—	—	—
A 41 3	**S3**	**MX3S**		7.677	8.307	27.382	—	5.591	131	—	—	—	—	—	—
A 41 3	**S3**	**ME3L**		7.677	8.307	26.614	—	5.591	134	—	—	—	—	—	—
A 41 3	**S3**	**ME3L**		7.677	8.307	29.114	—	5.591	148	—	—	—	—	—	—

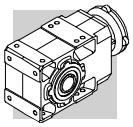
A 41...SK / SC



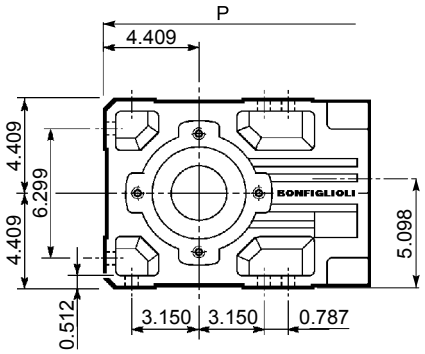
Dimensions are in mm

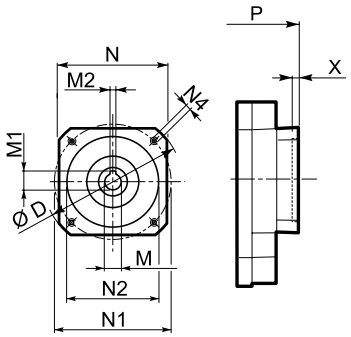
		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A41 3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	—	408	40
A41 3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	—	415	40
A41 3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	—	415	40
A41 2	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	394.5	—	39
A41 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	394.5	456	39/40
A41 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	394.5	456	39/40
A41 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	394.5	456	39/41
A41 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	394.5	456	39/44
A41 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	394.5	456	39/44
A41 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	394.5	456	39/44
A41 2	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	394.5	—	41
A41 2	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	441	—	43
A41 2	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	441	—	43
A41 2	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	441	—	43

		Mt [Nm]		D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A41 3	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	435	41
A41 3	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	435	41
A41 3	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	435	41
A41 2	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	418	—	40
A41 2/3	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	418	479.5	40/41
A41 2/3	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	418	479.5	40/43
A41 2/3	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	418	479.5	41/47
A41 2/3	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	418	479.5	41/47
A41 2	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	418	—	42
A41 2	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	464	—	46
A41 2	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	468	—	46
A41 2	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	468	—	46

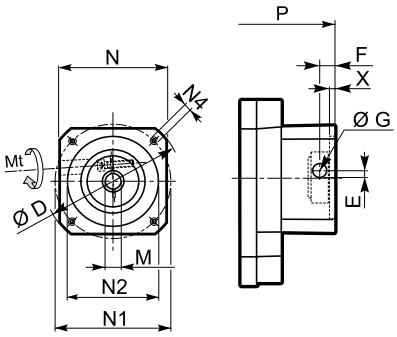


A 41...SK / SC





SK...

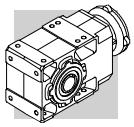


SC...

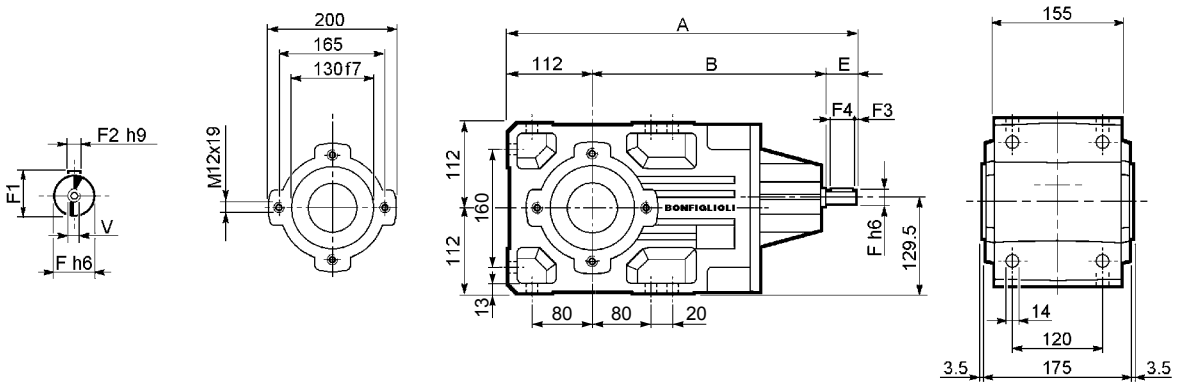
Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A41 3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	—	16.063	88
A41 3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	—	16.339	88
A41 3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	—	16.339	88
A41 2	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	15.531	—	86
A41 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	15.531	17.953	86/88
A41 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	15.531	17.953	86/88
A41 2/3	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	15.531	17.953	86/90
A41 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	15.531	17.953	86/97
A41 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	15.531	17.953	86/97
A41 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	15.531	17.953	86/97
A41 2	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	15.531	—	90
A41 2	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	17.362	—	95
A41 2	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	17.362	—	95
A41 2	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	17.362	—	95

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A41 3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	17.126	90
A41 3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	17.126	90
A41 3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	—	17.126	90
A41 2	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	16.457	—	88
A41 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	16.457	18.878	88/90
A41 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	16.457	18.878	88/93
A41 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	16.457	18.878	88/93
A41 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	16.457	18.878	88/95
A41 2/3	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	16.457	18.878	90/104
A41 2/3	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	16.457	18.878	90/104
A41 2	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	16.457	—	93
A41 2	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	18.268	—	101
A41 2	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	18.425	—	101
A41 2	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	18.425	—	101



A 41...HS

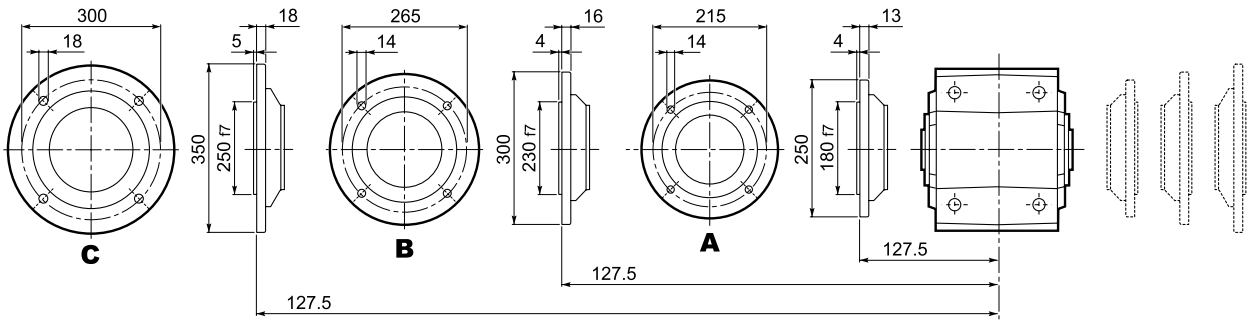


Dimensions are in mm

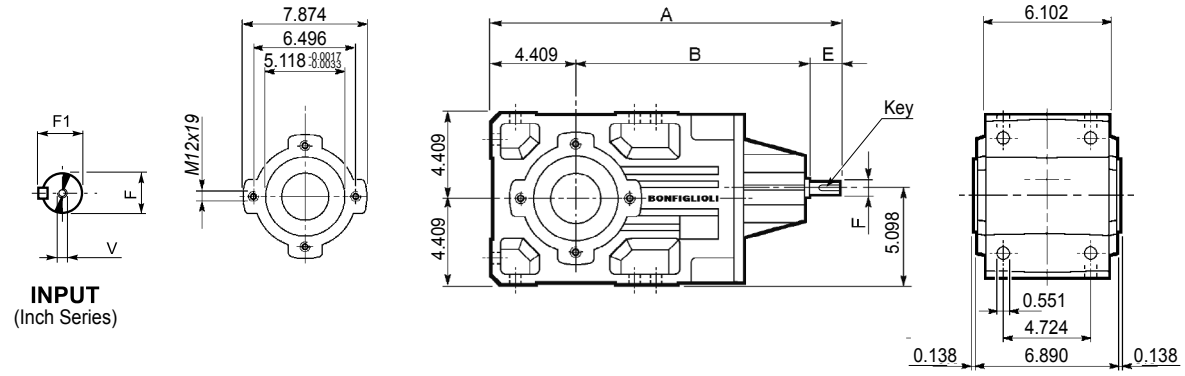
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 41 2	**HS**	464	302.5	50	24	27	8	2.5	45	M8x19	40.7
A 41 3		486.5	334.5	40	19	21.5	6	2.5	35	M6x16	39.5

Metric output versions available also in combination with NHS input

A 41...F...



A 41...NHS



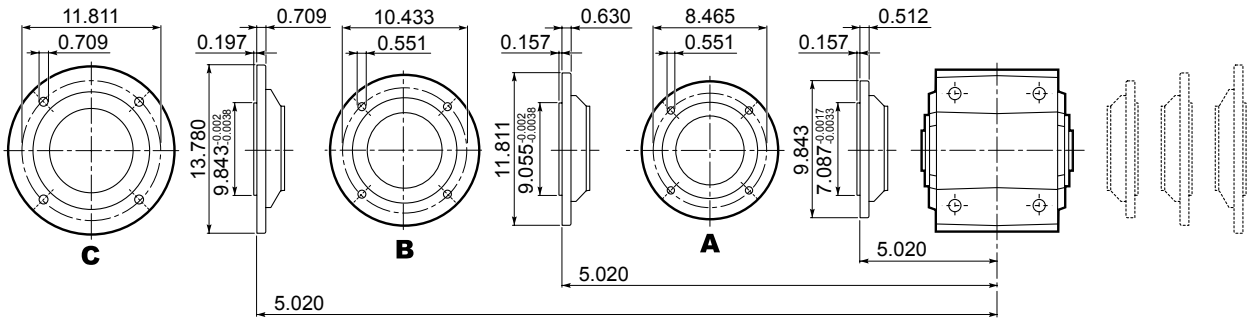
INPUT
(Inch Series)

Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 41 2	**NHS**	18.268	11.890	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	90
A 41 3	**NHS**	19.154	13.169	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	87

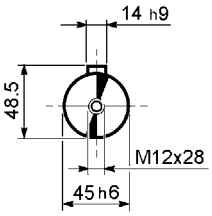
Imperial output versions available also in combination with HS input

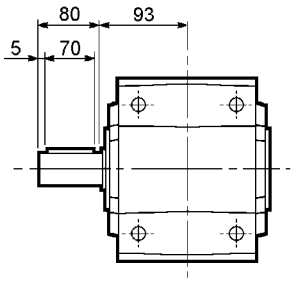
A 41...F...



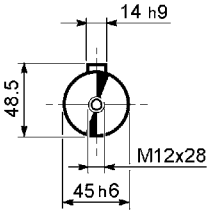
A 41

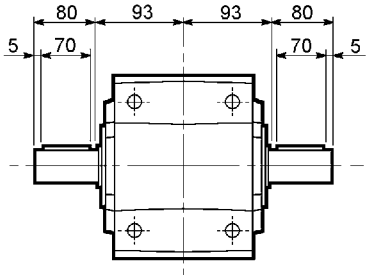
A 41...UR



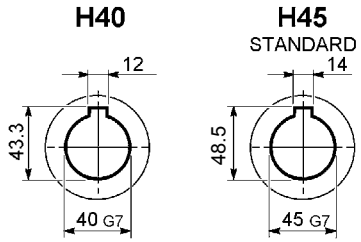


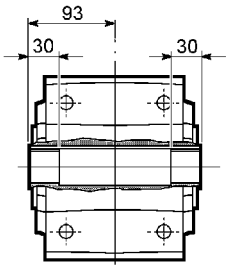
A 41...UD



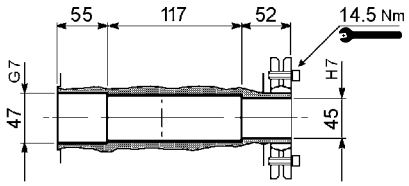


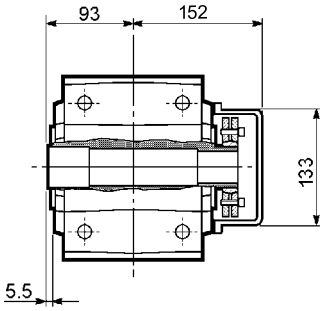
A 41...UH





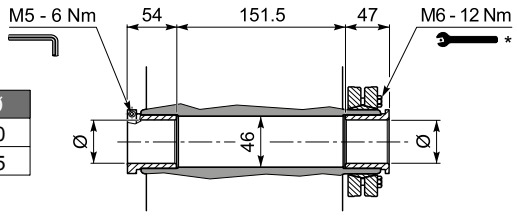
A 41...US

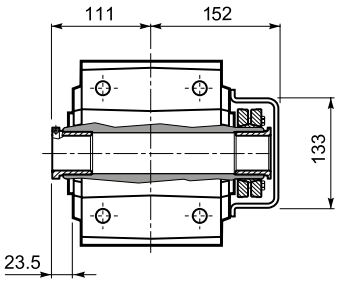




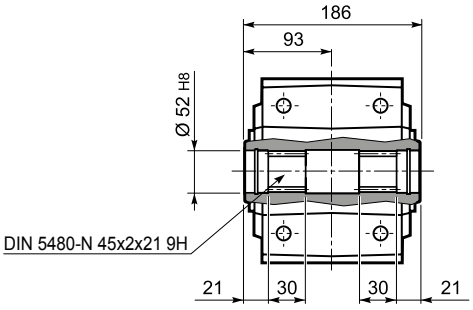
A 41...QF

	Ø
QF40	40
QF45	45

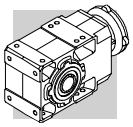




A 41...UV

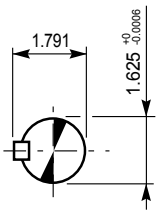


* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

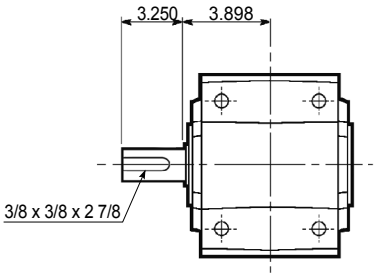


A 41

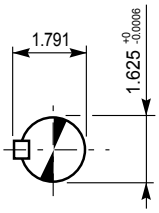
A 41...NUR



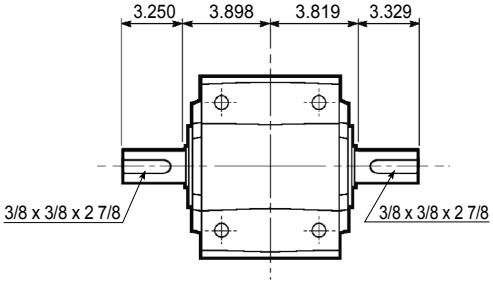
OUTPUT
(Inch Series)



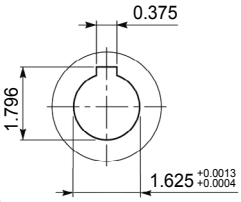
A 41...NUD



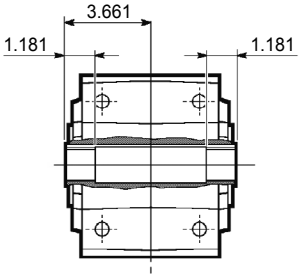
OUTPUT
(Inch Series)



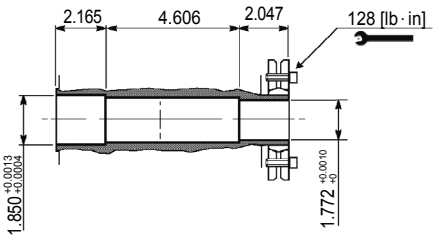
A 41...NUH

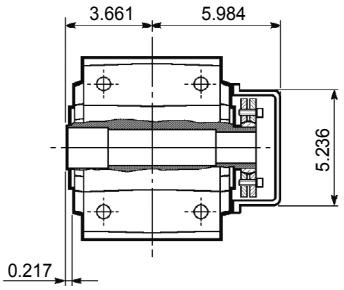


OUTPUT
(Inch Series)

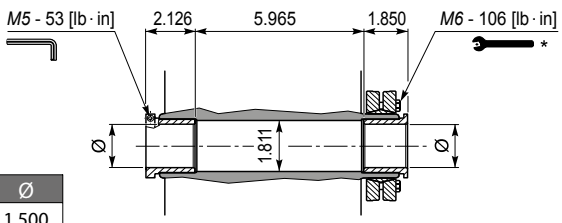


A 41...US

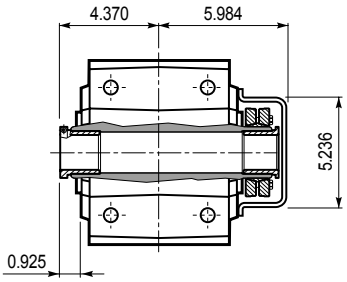




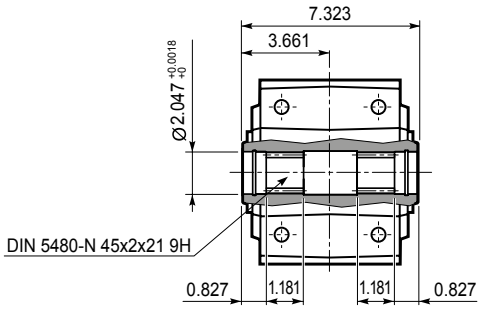
A 41...NQF



	Ø
NQF1-1/2	1.500
NQF1-5/8	1.625

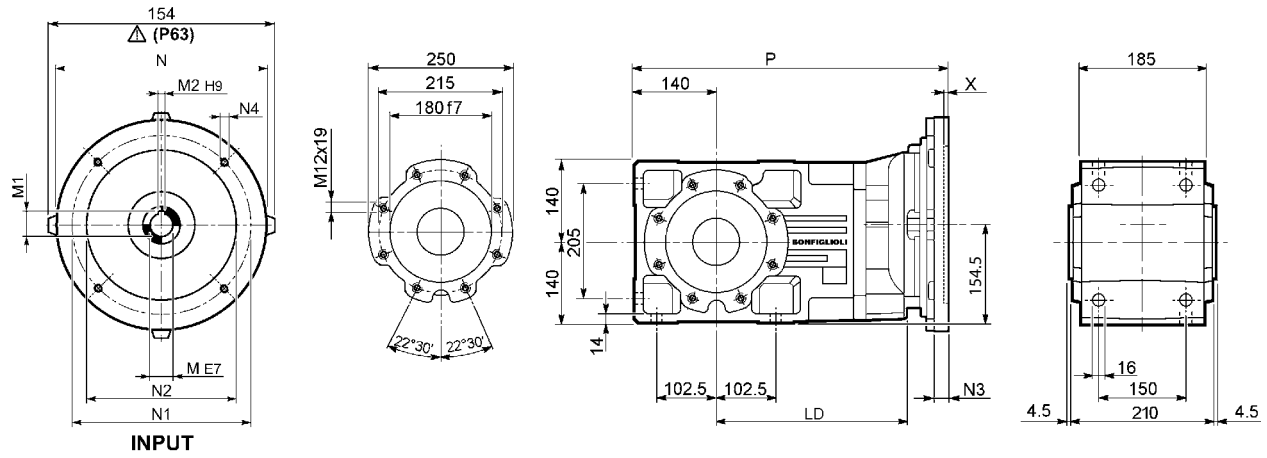


A 41...UV



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

A 50...P(IEC)

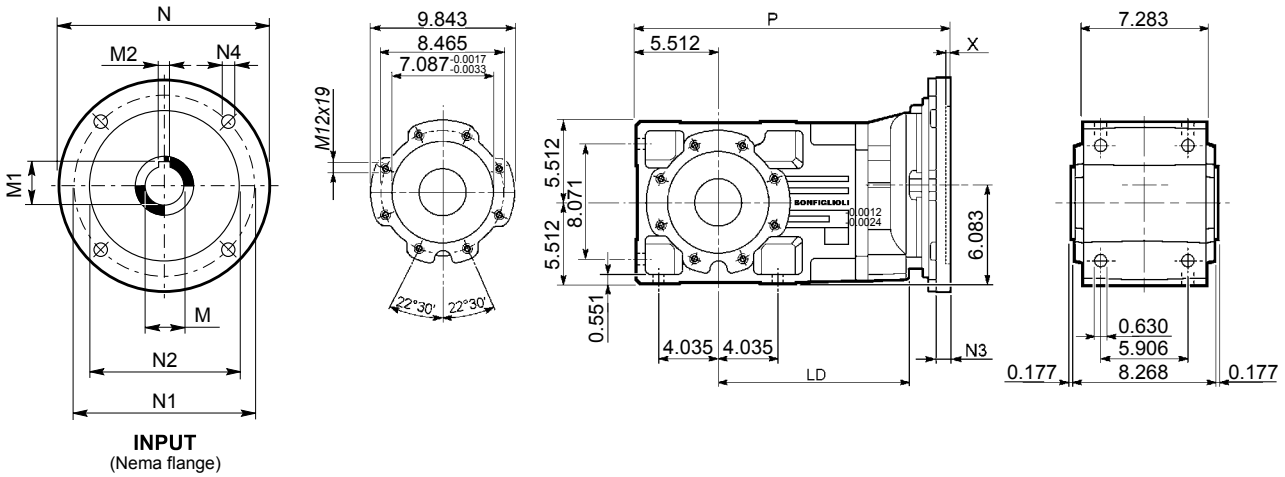


Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 50 2/3	**P63**	284.5	11	12.8	4	140	115	95	—	M8x19	4	454.5	60
A 50 2/3	**P71**	284.5	14	16.3	5	160	130	110	—	M8x16	4.5	454.5	60
A 50 2/3	**P80**	299.5	19	21.8	6	200	165	130	—	M10x14.5	4	474	61
A 50 2/3	**P90**	299.5	24	27.3	8	200	165	130	—	M10x14.5	4	474	61
A 50 2/3	**P100**	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	**P112**	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	**P132**	284.5	38	41.3	10	300	265	230	16	14	5	520.5	68
A 50 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	571	72
A 50 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	571	72
A 50 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	526	62
A 50 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	526	62
A 50 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	545.5	63
A 50 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	545.5	63
A 50 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67
A 50 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67

Metric output versions available also in combination with NEMA motor adaptor

A 50...N(NEMA Input)

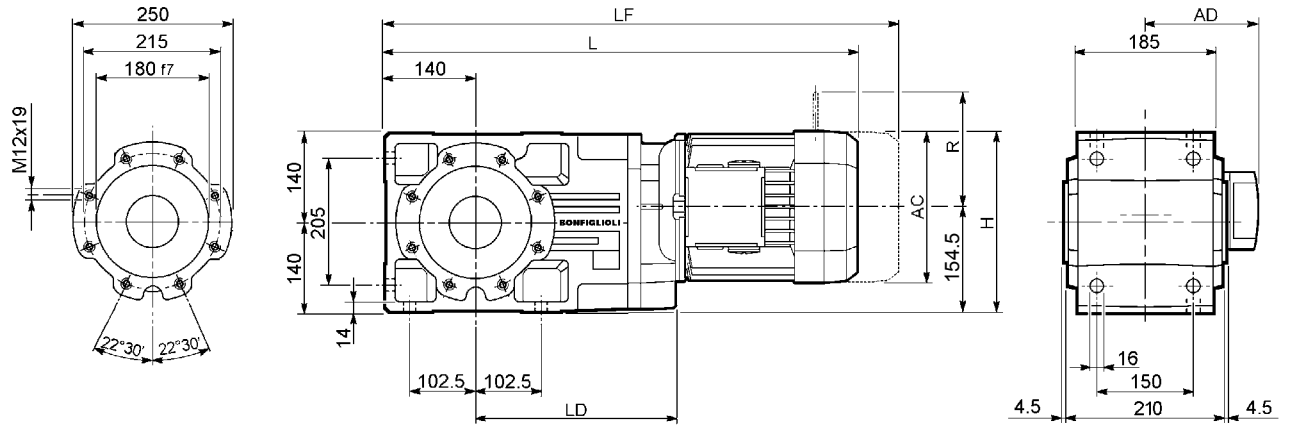


Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 50 2/3	**N56C**	11.201	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	18.681	132
A 50 2/3	**N140TC**	11.201	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	18.681	134
A 50 2/3	**N180TC**	11.791	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	19.429	143
A 50 2/3	**N210TC**	11.201	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	20.669	150
A 50 2/3	**N250TC**	—	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	23.465	188
A 50 2/3	**N280TC**	—	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	23.661	192
A 50 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	21.496	137
A 50 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	21.496	139
A 50 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	22.323	148

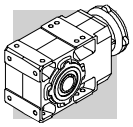
Imperial output versions available also in combination with IEC motor adaptor

A 50...M/ME/MX

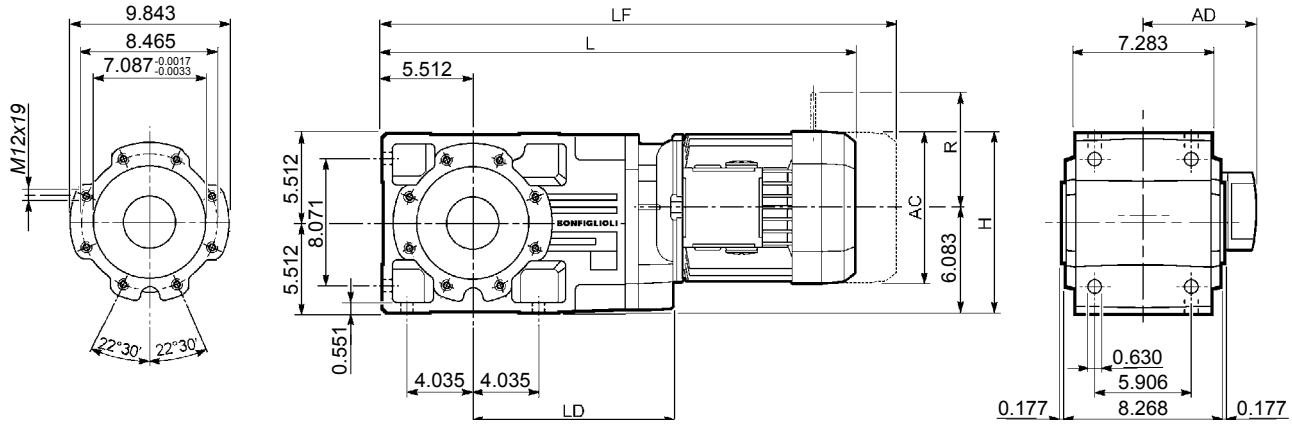


Dimensions are in mm

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 50 2/3	**S1**	**M1**		138	223	609.5	—	108	66	670.5	69	103	135	124	108
A 50 2/3	**S1**	**ME1**		138	223	609.5	—	108	66	670.5	69	103	135	124	135
A 50 2/3	**S2**	**ME2S**		156	232	638.5	284.5	119	68	694.5	72.1	129	143	134	143
A 50 2/3	**S2**	**MX2S**		156	232	682.5	284.5	119	73.1	740.5	79.3	129	143	134	143
A 50 2/3	**S3**	**ME3S**		195	251.5	681.5	299.5	142	74.5	748.5	81.4	160	155	160	155
A 50 2/3	**S3**	**MX3S**		195	251.5	713.5	299.5	142	77.5	777.5	86.4	160	155	160	155
A 50 2/3	**S3**	**ME3L**		195	251.5	713.5	299.5	142	81	775.5	87.9	160	155	160	155
A 50 2/3	**S3**	**MX3L**		195	251.5	757.5	299.5	142	87	819.5	95.4	160	155	160	155
A 50 2/3	**S4**	**ME4**	**MX4**	258	283	821.5	284.5	193	115	892.5	105.4	204	210	200	210
A 50 2/3	**S4**	**ME4LB**	**MX4LA**	258	283	856.5	284.5	193	123	917.5	139.4	226	210	217	210
A 50 2/3	**S5**	**ME5S**	**MX5S**	310	309	908	—	245	143	980.5	184.4	266	245	247	245
A 50 2/3	**S5**	**ME5L**	**MX5L**	310	309	952	—	245	159	1024.5	210.4	266	245	247	245
A 50 4	**S1**	**M1**		138	223	681	—	108	67	742	70	103	135	124	108
A 50 4	**S1**	**ME1**		138	223	681	—	108	67	742	70	103	135	124	135
A 50 4	**S2**	**ME2S**		156	232	710	—	119	71	766	73.1	129	143	134	143
A 50 4	**S2**	**MX2S**		156	232	754	—	119	76.1	812	80.3	129	143	134	143
A 50 4	**S3**	**ME3S**		195	251.5	753	—	142	77.5	820	82.4	160	155	160	155
A 50 4	**S3**	**MX3S**		195	251.5	785	—	142	80.5	849	87.4	160	155	160	155
A 50 4	**S3**	**ME3L**		195	251.5	785	—	142	83	847	88.9	160	155	160	155
A 50 4	**S3**	**MX3L**		195	251.5	829	—	142	89	891	96.4	160	155	160	155

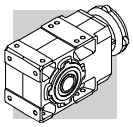


A 50...M/ME/MX

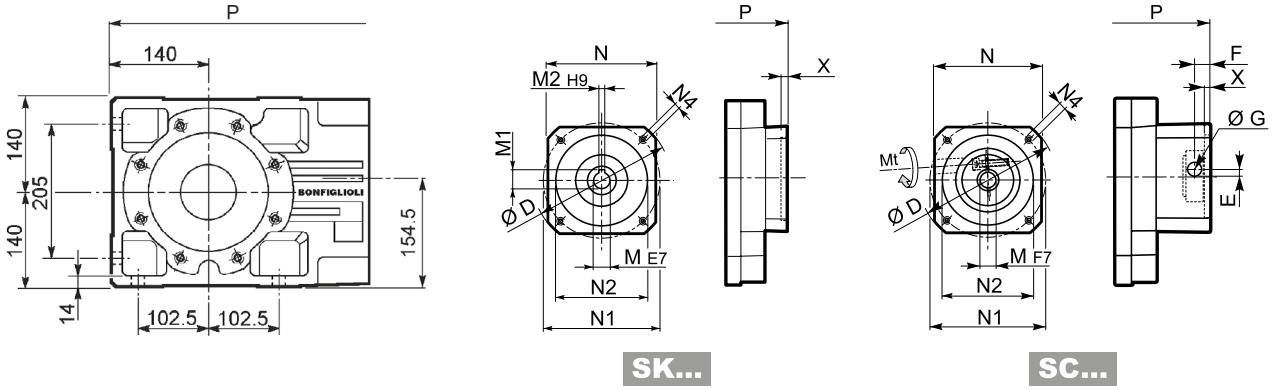


Dimensions are in Inch except when shown in *italic [mm]*

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 50 2/3	**S1**	**M1**		5.433	8.780	23.996	—	4.252	146	26.398	152	4.055	5.315	4.882	4.252
A 50 2/3	**S2**	**ME2S**		6.142	9.134	25.138	11.201	4.685	150	—	—	—	—	—	—
A 50 2/3	**S2**	**MX2S**		6.142	9.134	26.870	11.201	4.685	161	—	—	—	—	—	—
A 50 2/3	**S3**	**ME3S**		7.677	9.902	26.831	11.791	5.591	164	—	—	—	—	—	—
A 50 2/3	**S3**	**MX3S**		7.677	9.902	26.870	11.791	5.591	171	—	—	—	—	—	—
A 50 2/3	**S3**	**ME3L**		7.677	9.902	28.091	11.791	5.591	179	—	—	—	—	—	—
A 50 2/3	**S3**	**MX3L**		7.677	9.902	28.091	11.791	5.591	179	—	—	—	—	—	—
A 50 2/3	**S4**	**ME4**	**MX4**	10.157	11.142	32.343	11.201	7.598	254	—	—	—	—	—	—
A 50 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	11.142	33.720	11.201	7.598	271	—	—	—	—	—	—
A 50 2/3	**S5**	**ME5S**	**MX5S**	12.205	12.165	35.748	—	9.646	315	—	—	—	—	—	—
A 50 2/3	**S5**	**ME5L**	**MX5L**	12.205	12.165	37.480	—	9.646	351	—	—	—	—	—	—
A 50 4	**S1**	**M1**		5.433	8.780	26.811	—	4.252	148	29.213	154	4.055	5.315	4.882	4.252
A 50 4	**S2**	**ME2S**		6.142	9.134	27.953	—	4.685	157	—	—	—	—	—	—
A 50 4	**S2**	**MX2S**		6.142	9.134	29.685	—	4.685	168	—	—	—	—	—	—
A 50 4	**S3**	**ME3S**		7.677	9.902	29.646	—	5.591	171	—	—	—	—	—	—
A 50 4	**S3**	**MX3S**		7.677	9.902	30.906	—	5.591	177	—	—	—	—	—	—
A 50 4	**S3**	**ME3L**		7.677	9.902	30.906	—	5.591	183	—	—	—	—	—	—
A 50 4	**S3**	**MX3L**		7.677	9.902	32.638	—	5.591	196	—	—	—	—	—	—



A 50...SK / SC

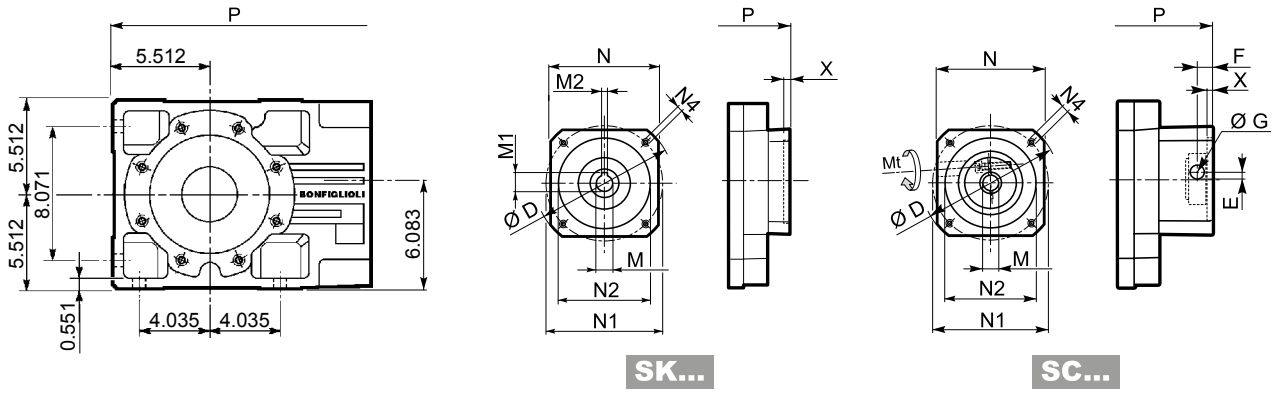


Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
A 50 2/3	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	474	—	61/61
A 50 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	474	545.5	61/61/65
A 50 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	474	575	61/61/65
A 50 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	474	575	63/63/66
A 50 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	520.5	—	69/69
A 50 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	520.5	—	69/69
A 50 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	520.5	—	69/69

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	Kg
A 50 2/3	**SC80B**	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	497.5	—	62/62
A 50 2/3/4	**SC80C**	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	497.5	569	62/62/64
A 50 2/3/4	**SC95A**	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	**SC95B**	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	**SC95C**	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	**SC110A**	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	**SC110B**	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	**SC130A**	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	497.5	569	64/64/67
A 50 2/3	**SC130B**	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	543.5	—	68/68
A 50 2/3	**SC180A**	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	547.5	—	68/68
A 50 2/3	**SC180B**	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	547.5	—	68/68

A 50...SK / SC

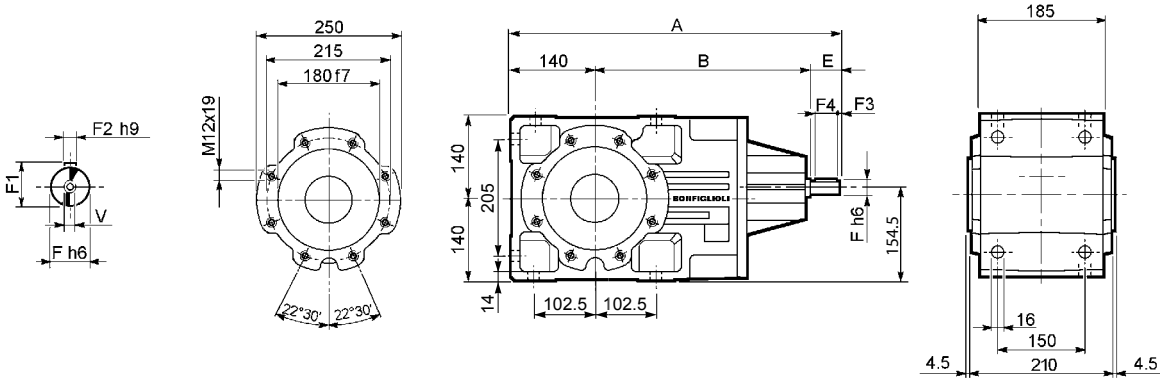


Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
A 50 2/3	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	18.661	—	134/134
A 50 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	18.661	21.476	134/134/143
A 50 2/3/4	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	18.661	22.638	134/134/143
A 50 2/3/4	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	18.661	22.638	139/139/146
A 50 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	20.492	—	152/152
A 50 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	20.492	—	152/152
A 50 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	20.492	—	152/152

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	lbs
A 50 2/3	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	19.587	—	137/137
A 50 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	19.587	22.402	139/139/146
A 50 2/3/4	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	19.587	22.402	139/139/146
A 50 2/3/4	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	19.587	22.402	141/141/148
A 50 2/3	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	21.398	—	150/150
A 50 2/3	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	21.555	—	150/150
A 50 2/3	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	21.555	—	150/150

A 50...HS

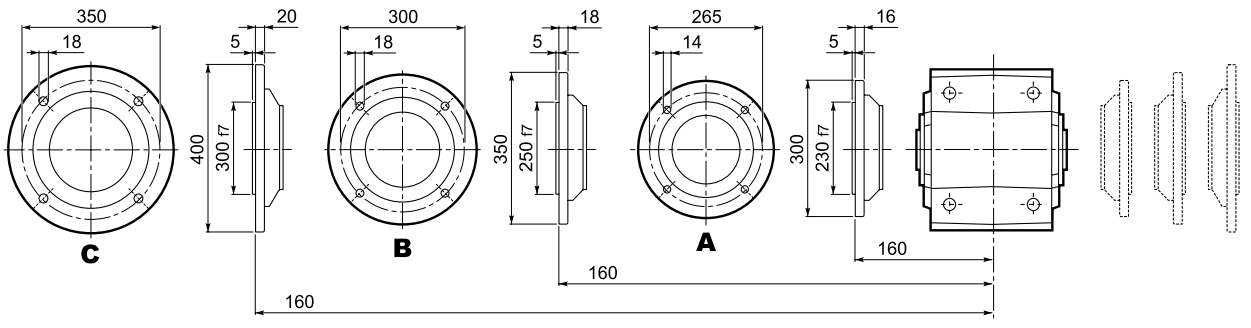


Dimensions are in mm

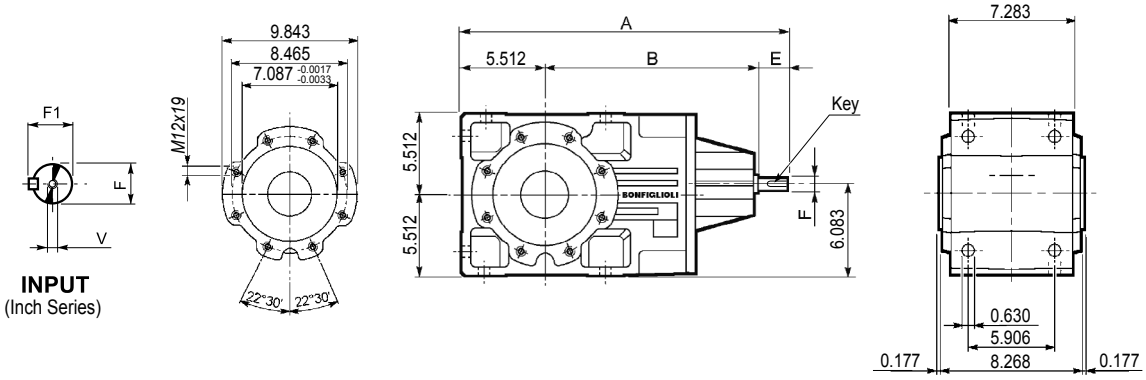
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 50 2		543.5	353.5	50	24	27	8	2.5	45	M8x19	72
A 50 3	**HS**	543.5	353.5	50	24	27	8	2.5	45	M8x19	76
A 50 4		576	396	40	19	21.5	6	2.5	35	M6x16	77

Metric output versions available also in combination with NHS input

A 50...F...



A 50...NHS

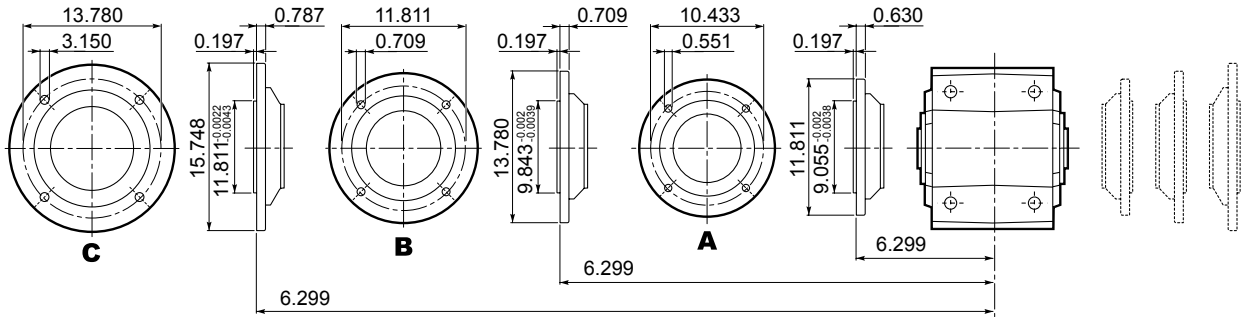


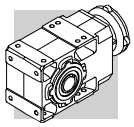
Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 50 2	**NHS**	21.398	13.917	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	159
A 50 3	**NHS**	21.398	13.917	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	168
A 50 4	**NHS**	22.677	15.591	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	170

Imperial output versions available also in combination with HS input

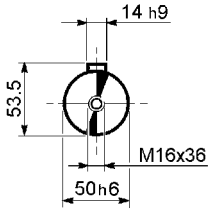
A 50...F...

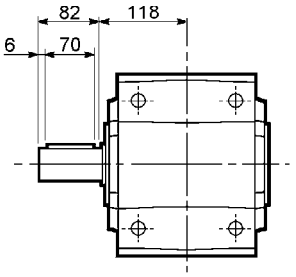




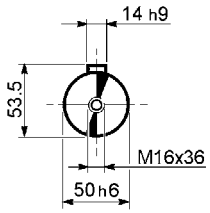
A 50

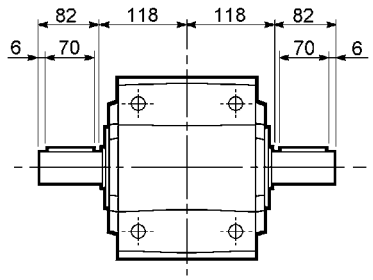
A 50...UR



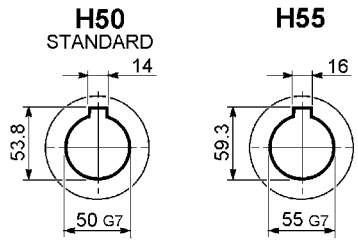


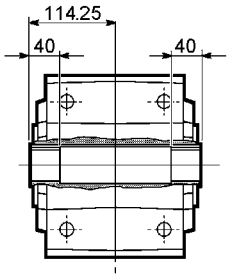
A 50...UD



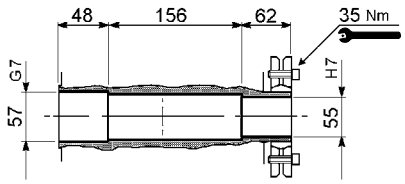


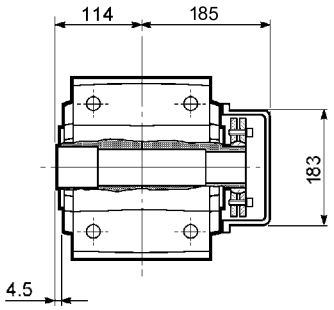
A 50...UH





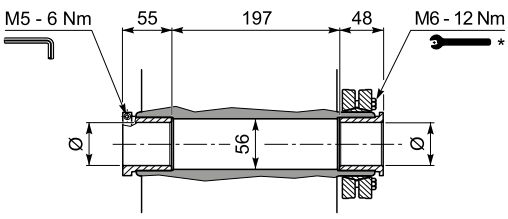
A 50...US

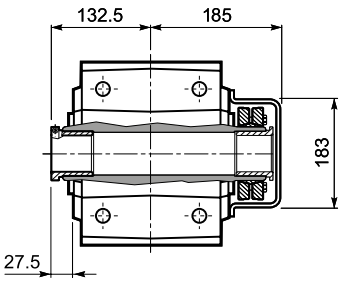




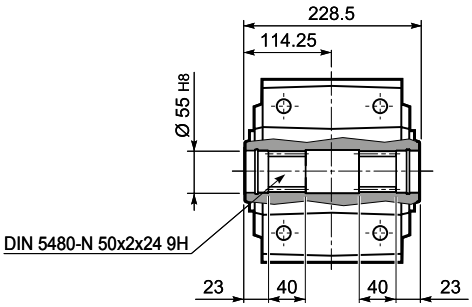
A 50...QF

	Ø
QF50	50
QF55	55

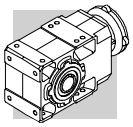




A 50...UV

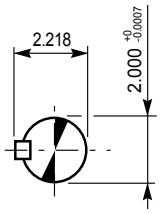


* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

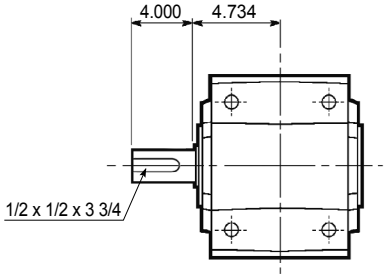


A 50

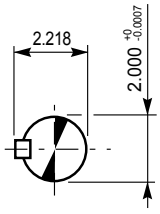
A 50...NUR



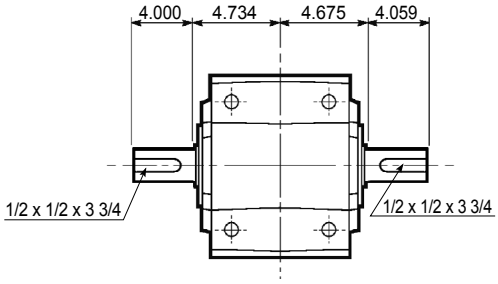
OUTPUT
(Inch Series)



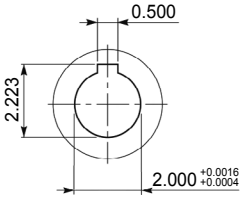
A 50...NUD



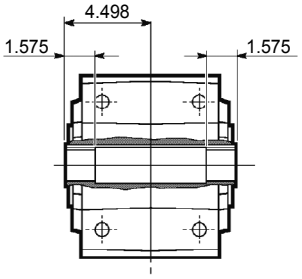
OUTPUT
(Inch Series)



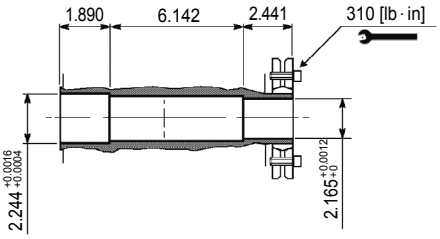
A 50...NUH

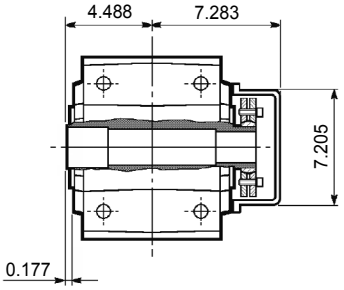


OUTPUT
(Inch Series)



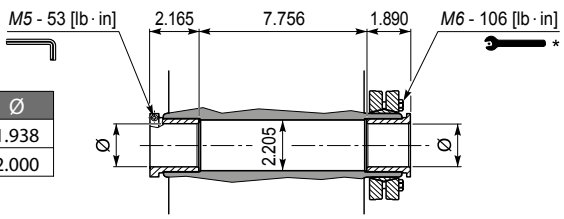
A 50...US

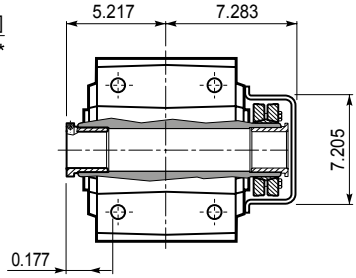




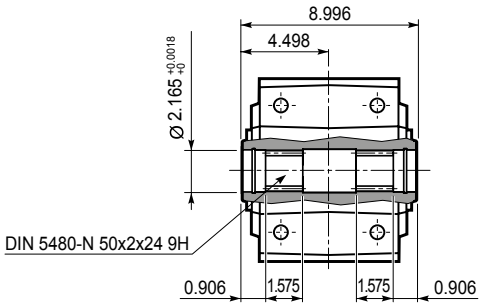
A 50...NQF

	Ø
NQF1-15/16	1.938
NQF2	2.000



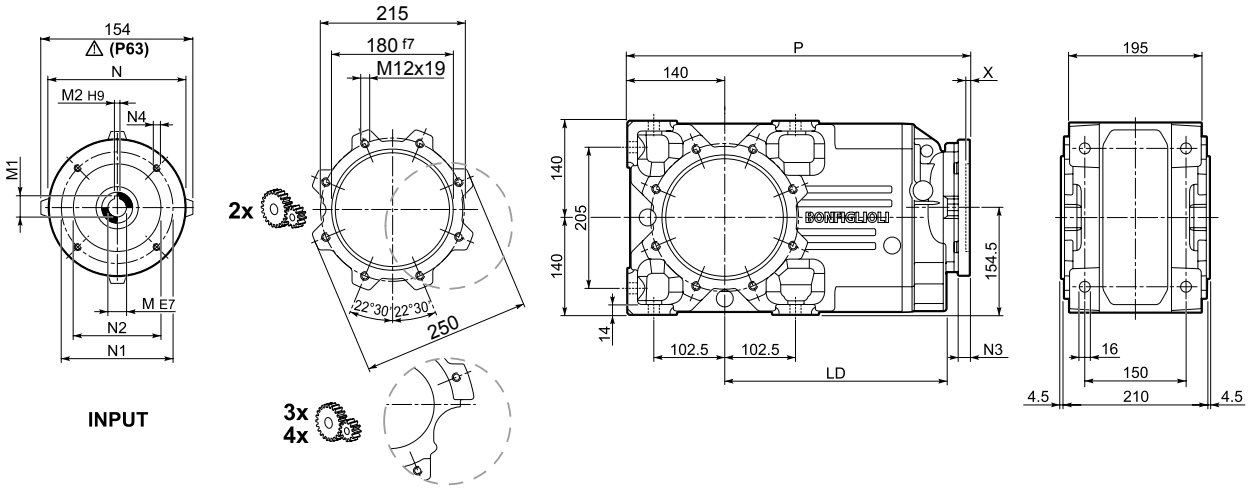


A 50...UV



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

A 55...P(IEC)

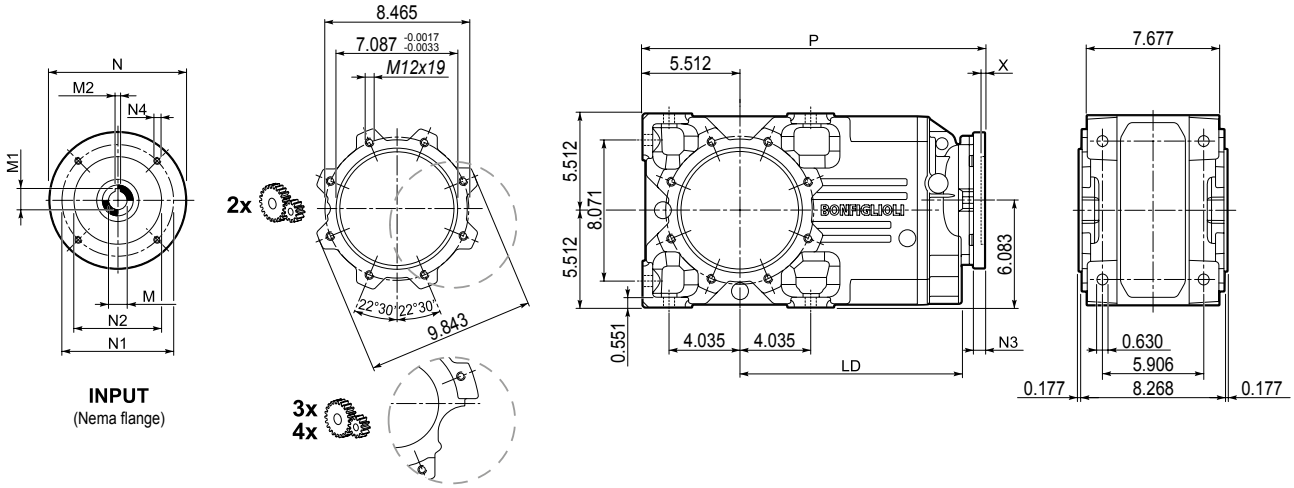


Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 55 3	**P63**	302.5	11	12.8	4	140	115	95	—	M8x19	4	472.5	75
A 55 3	**P71**	302.5	14	16.3	5	160	130	110	—	M8x16	4.5	472.5	75
A 55 2/3	**P80**	317.5	19	21.8	6	200	165	130	—	M10x14.5	4	492	81
A 55 2/3	**P90**	317.5	24	27.3	8	200	165	130	—	M10x14.5	4	492	81
A 55 2/3	**P100**	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	**P112**	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	**P132**	302.5	38	41.3	10	300	265	230	16	14	5	538.5	93
A 55 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	589	110
A 55 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	589	110
A 55 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	544	77
A 55 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	544	77
A 55 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	563.5	78
A 55 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	563.5	78
A 55 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82
A 55 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82

Metric output versions available also in combination with NEMA motor adaptor

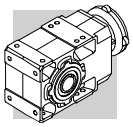
A 55...N(NEMA Input)



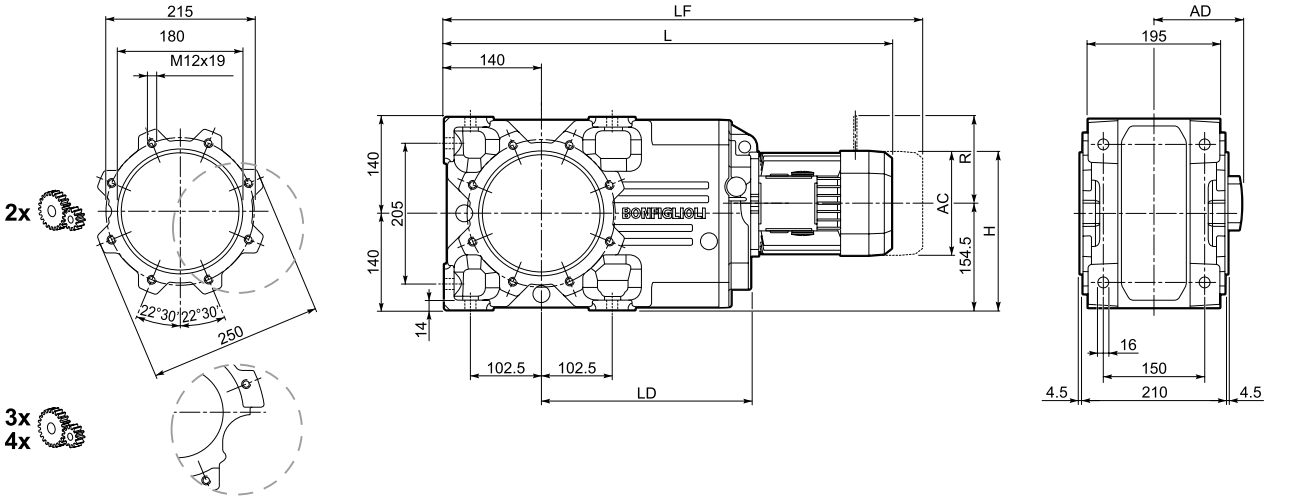
Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 55 3	**N56C**	11.909	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	19.390	165
A 55 3	**N140TC**	11.909	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	19.390	179
A 55 2/3	**N180TC**	12.500	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	20.138	187
A 55 2/3	**N210TC**	11.909	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	21.378	205
A 55 2/3	**N250TC**	—	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0.0014}_{+0}$	13.780	7.250	8.500	—	0.551	0.217	24.173	272
A 55 2/3	**N280TC**	—	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0.0017}_{+0}$	13.740	10.500	9.000	—	0.551	0.217	24.370	276
A 55 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	22.205	170
A 55 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	22.205	172
A 55 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	23.031	181

Imperial output versions available also in combination with IEC motor adaptor



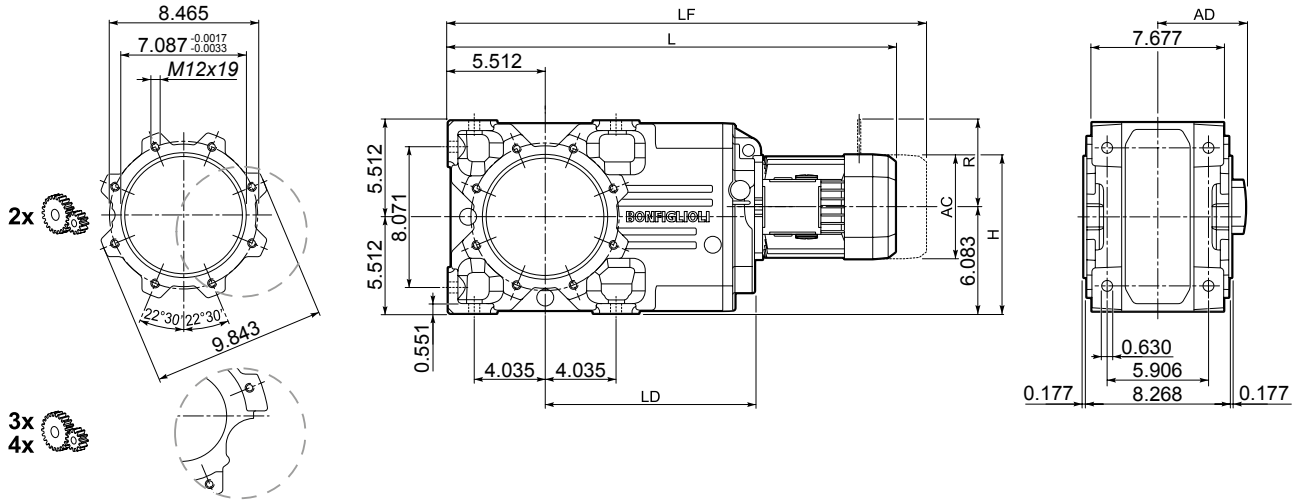
A 55...M/ME/MX



Dimensions are in mm

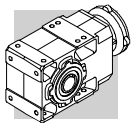
										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 55 3	**S1**	**M1**		138	198.5	627.5	—	108	81	688.5	84	103	135	124	108
A 55 3	**S1**	**ME1**		138	198.5	627.5	—	108	81	688.5	84	103	135	124	135
A 55 2/3	**S2**	**ME2S**		156	232	656.5	302.5	119	88	712.5	87.1	129	143	134	143
A 55 2/3	**S2**	**MX2S**		156	232	700.5	302.5	119	93.1	787.5	94.3	129	143	134	143
A 55 2/3	**S3**	**ME3S**		195	251	699.5	317.5	142	94.5	766.5	96.4	160	155	160	155
A 55 2/3	**S3**	**MX3S**		195	251	731.5	317.5	142	97.5	795.5	101.4	160	155	160	155
A 55 2/3	**S3**	**ME3L**		195	251	731.5	317.5	142	101	793.5	102.9	160	155	160	155
A 55 2/3	**S3**	**MX3L**		195	251	775.5	317.5	142	107	837.5	110.4	160	155	160	155
A 55 2/3	**S4**	**ME4**	**MX4**	258	283	839.5	302.5	193	135	910.5	122.4	204	210	200	210
A 55 2/3	**S4**	**ME4LB**	**MX4LA**	258	283	874.5	302.5	193	143	935.5	140.4	226	210	217	210
A 55 2/3	**S5**	**ME5S**	**MX5S**	310	309.5	926	—	245	163	998.5	214.4	266	245	247	245
A 55 2/3	**S5**	**ME5L**	**MX5L**	310	309.5	970	—	245	179	1042.5	225.4	266	245	247	245
A 55 4	**S1**	**M1**		138	223	699	—	108	82	760	85	103	135	124	108
A 55 4	**S1**	**ME1**		138	223	699	—	108	82	760	85	103	135	124	135
A 55 4	**S2**	**ME2S**		156	232	728	—	119	86	784	88.1	129	143	134	143
A 55 4	**S2**	**MX2S**		156	232	772	—	119	91.1	859	95.3	129	143	134	143
A 55 4	**S3**	**ME3S**		195	251.5	771	—	142	92.5	838	97.4	160	155	160	155
A 55 4	**S3**	**MX3S**		195	251.5	803	—	142	95.5	867	102.4	160	155	160	155
A 55 4	**S3**	**ME3L**		195	251.5	803	—	142	98	865	103.9	160	155	160	155
A 55 4	**S3**	**MX3L**		195	251.5	847	—	142	104	909	111.4	160	155	160	155

A 55...M/ME/MX

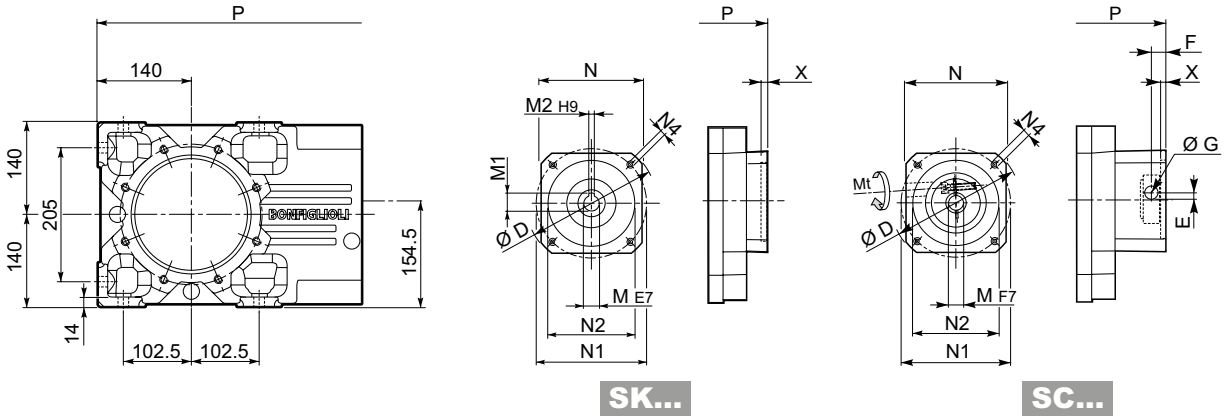


Dimensions are in Inch except when shown in *italic [mm]*

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 55 3	**S1**	**M1**		5.433	7.815	24.705	—	4.252	179	27.106	185	4.055	5.315	4.882	4.252
A 55 2/3	**S2**	**ME2S**		6.142	9.134	25.846	11.909	4.685	194	—	—	—	—	—	—
A 55 2/3	**S2**	**MX2S**		6.142	9.134	27.579	11.909	4.685	205	—	—	—	—	—	—
A 55 2/3	**S3**	**ME3S**		7.677	9.882	27.539	12.500	5.591	208	—	—	—	—	—	—
A 55 2/3	**S3**	**MX3S**		7.677	9.882	28.799	12.500	5.591	215	—	—	—	—	—	—
A 55 2/3	**S3**	**ME3L**		7.677	9.882	28.799	12.500	5.591	223	—	—	—	—	—	—
A 55 2/3	**S3**	**MX3L**		7.677	9.882	30.531	12.500	5.591	236	—	—	—	—	—	—
A 55 2/3	**S4**	**ME4**	**MX4**	10.157	11.142	33.051	11.909	7.598	298	—	—	—	—	—	—
A 55 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	11.142	34.429	11.909	7.598	315	—	—	—	—	—	—
A 55 2/3	**S5**	**ME5S**	**MX5S**	12.205	12.185	36.457	—	9.646	359	—	—	—	—	—	—
A 55 2/3	**S5**	**ME5L**	**MX5L**	12.205	12.185	38.189	—	9.646	395	—	—	—	—	—	—
A 55 4	**S1**	**M1**		5.433	8.780	27.520	—	4.252	181	29.921	187	4.055	5.315	4.882	4.252
A 55 4	**S2**	**ME2S**		6.142	9.134	28.661	—	4.685	190	—	—	—	—	—	—
A 55 4	**S2**	**MX2S**		6.142	9.134	30.394	—	4.685	201	—	—	—	—	—	—
A 55 4	**S3**	**ME3S**		7.677	9.902	30.354	—	5.591	204	—	—	—	—	—	—
A 55 4	**S3**	**MX3S**		7.677	9.902	31.614	—	5.591	211	—	—	—	—	—	—
A 55 4	**S3**	**ME3L**		7.677	9.902	31.614	—	5.591	216	—	—	—	—	—	—
A 55 4	**S3**	**MX3L**		7.677	9.902	33.346	—	5.591	229	—	—	—	—	—	—



A 55...SK / SC

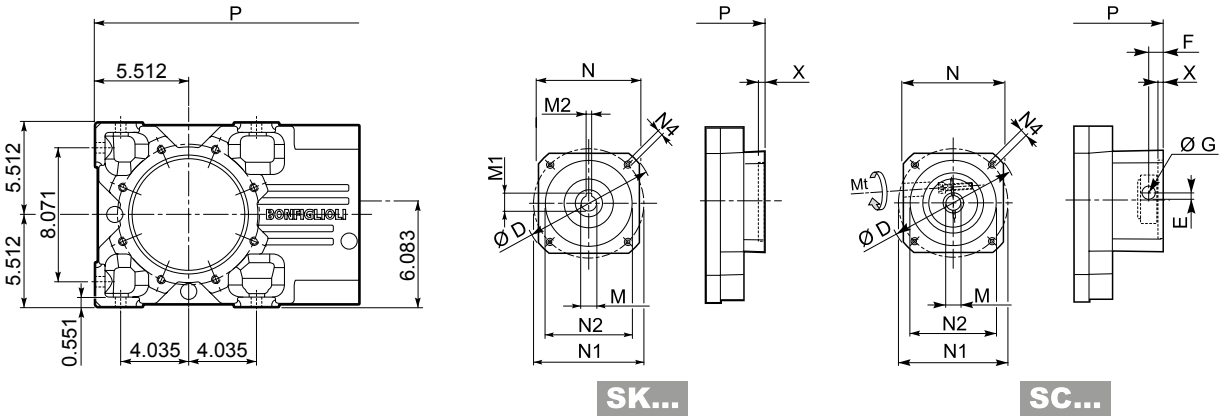


Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
A 55 3	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	492	—	81
A 55 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	492	563.5	81/81/77
A 55 3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	492	593	81/81/78
A 55 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	492	593	81/81/78
A 55 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	492	593	83/83/79
A 55 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	538.5	—	90/90
A 55 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	538.5	—	90/90
A 55 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	538.5	—	90/90

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	Kg
A 55 3	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	515.5	—	82
A 55 2/3/4	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	515.5	587	82/82/78
A 55 3/4	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	515.5	587	83/83/79
A 55 2/3/4	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	515.5	587	83/83/79
A 55 2/3/4	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	515.5	587	84/84/80
A 55 2/3	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	561.5	—	93/93
A 55 2/3	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	565.5	—	93/93
A 55 2/3	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	565.5	—	93/93

A 55...SK / SC

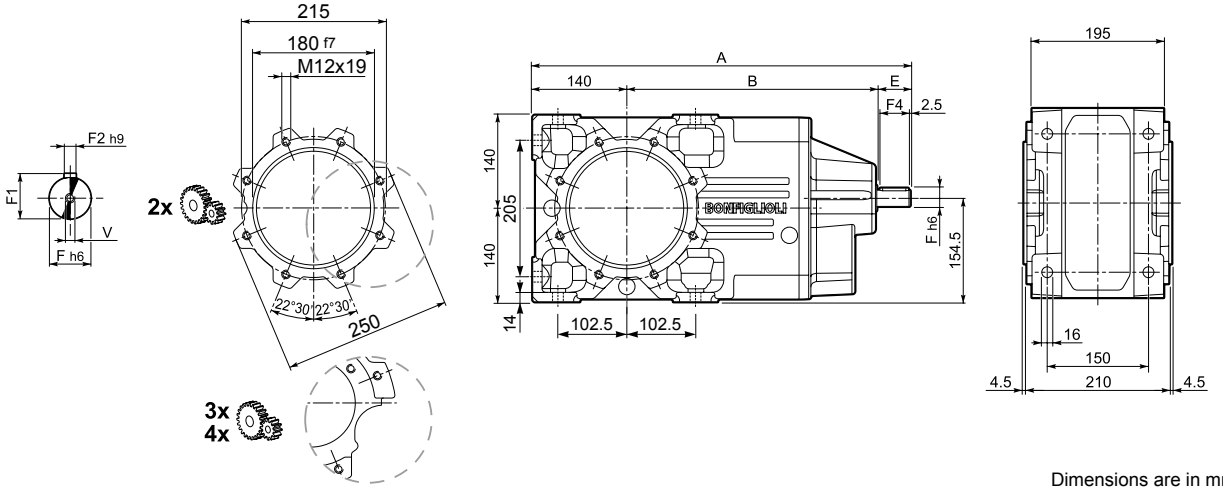


Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
A 55 3	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	19.370	—	179
A 55 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	19.370	22.185	179/179/170
A 55 3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	19.370	22.185	179/179/170
A 55 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	19.370	22.185	179/179/170
A 55 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	19.370	22.185	179/179/170
A 55 2/3/4	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	19.370	23.346	179/179/172
A 55 2/3/4	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	19.370	23.346	179/179/172
A 55 2/3/4	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	19.370	23.346	183/183/174
A 55 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	21.201	—	198/198
A 55 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	21.201	—	198/198
A 55 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	21.201	—	198/198

		Mt [lb·in]		D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	lbs
A 55 3	**SC80B**	*M6*	133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	20.295	—	181
A 55 2/3/4	**SC80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	20.295	23.110	181/181/172
A 55 3/4	**SC95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	20.295	23.110	181/181/172
A 55 2/3/4	**SC95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	20.295	23.110	181/181/172
A 55 2/3/4	**SC95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	20.295	23.110	181/181/172
A 55 2/3/4	**SC110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	20.295	23.110	183/183/174
A 55 2/3/4	**SC110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	20.295	23.110	183/183/174
A 55 2/3/4	**SC130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	20.295	23.110	185/185/176
A 55 2/3	**SC130B**	*M8*	319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	22.106	—	205/205
A 55 2/3	**SC180A**	*M8*	319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	22.264	—	205/205
A 55 2/3	**SC180B**	*M8*	319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	22.264	—	205/205

A 55...HS

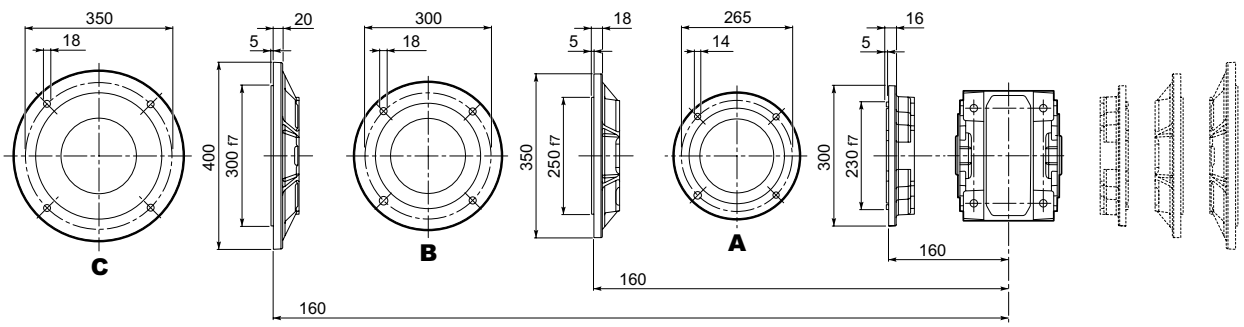


Dimensions are in mm

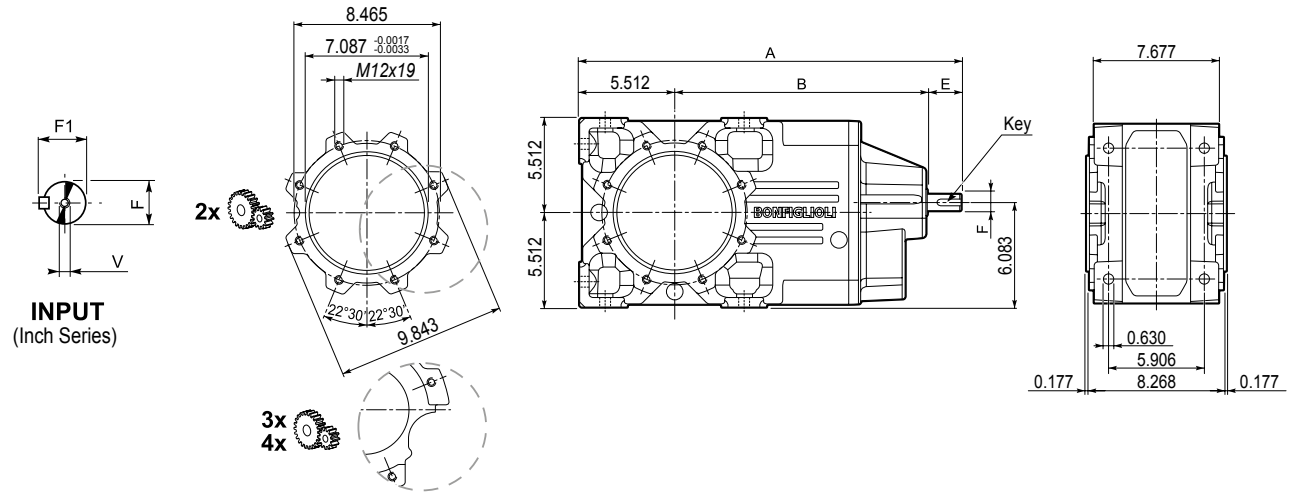
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 55 2		561.5	371.5	50	24	27	8	2.5	45	M8x19	96
A 55 3	**HS**	561.5	371.5	50	24	27	8	2.5	45	M8x19	91
A 55 4		594	414	40	19	21.5	6	2.5	35	M6x16	92

Metric output versions available also in combination with NHS input

A 55...F...



A 55...NHS

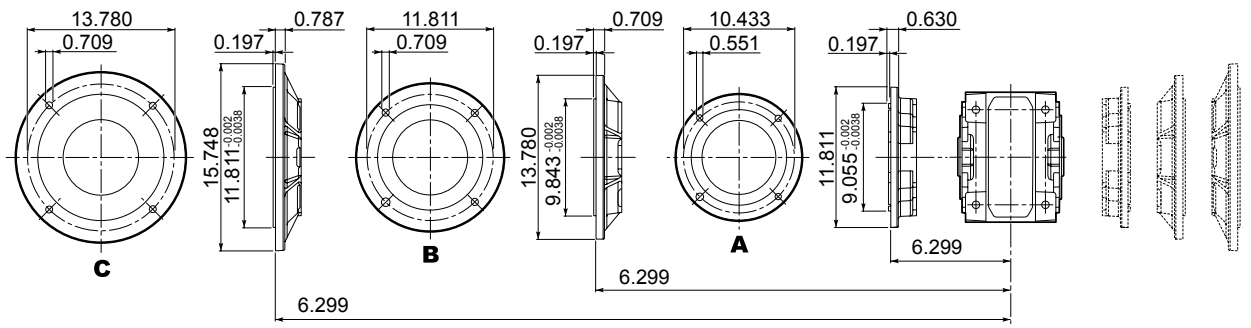


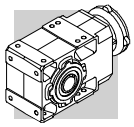
Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 55 2	**NHS**	22.106	14.626	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	212
A 55 3	**NHS**	22.106	14.626	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	201
A 55 4	**NHS**	23.386	16.299	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	203

Imperial output versions available also in combination with HS input

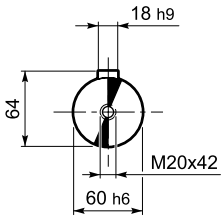
A 55...F...

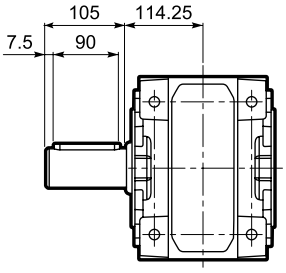




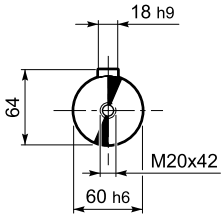
A 55

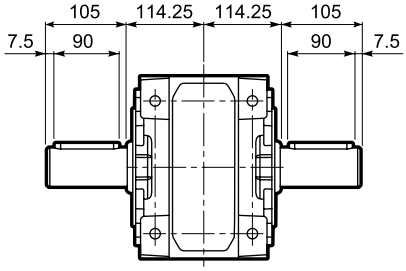
A 55...UR



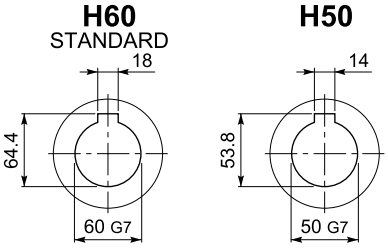


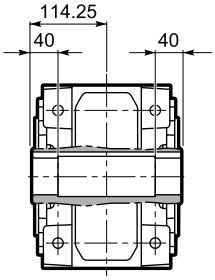
A 55...UD



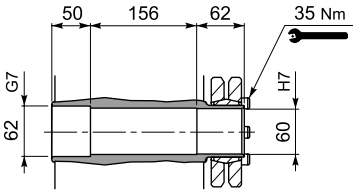


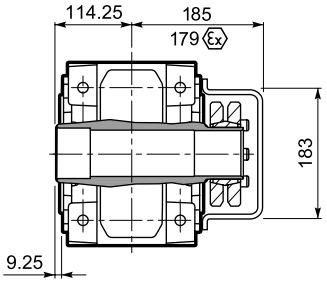
A 55...UH





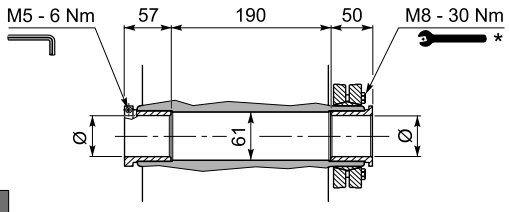
A 55...US

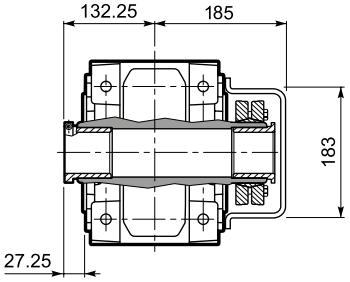




A 55...QF

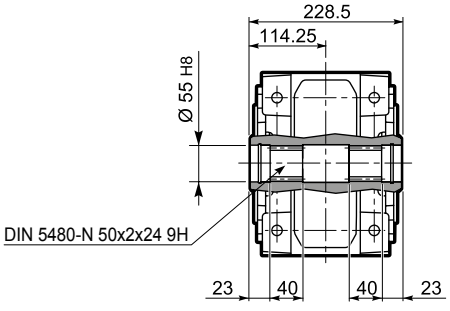
	Ø
QF55	55
QF60	60





$M_{n2\ max}$ [Nm]	
A 55 QF55	1900

A 55...UV

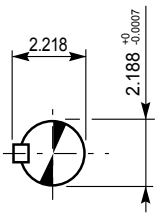


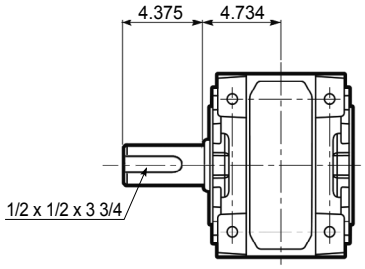
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

A 55

A 55...NUR

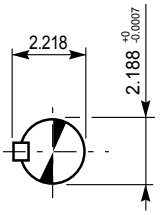
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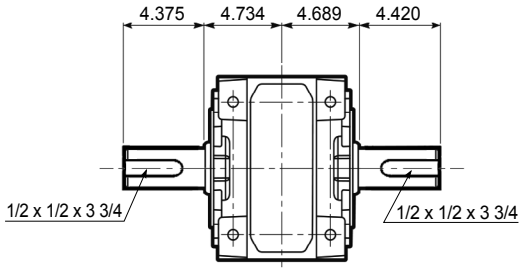




A 55...NUD

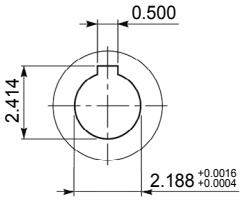
OUTPUT
(Inch Series)

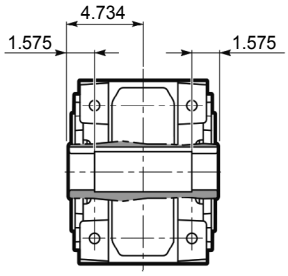




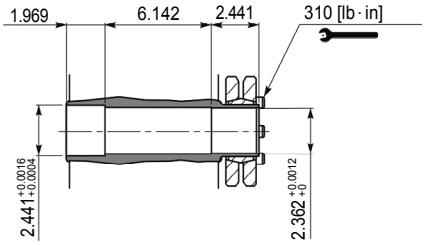
A 55...NUH

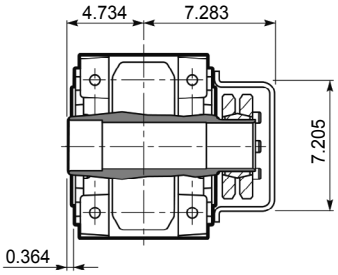
OUTPUT
(Inch Series)



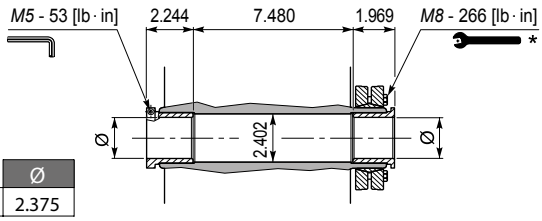


A 55...US

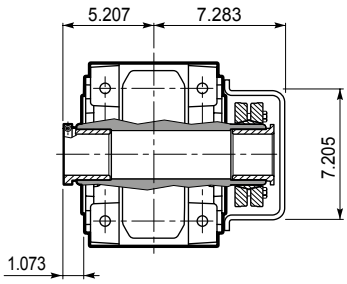




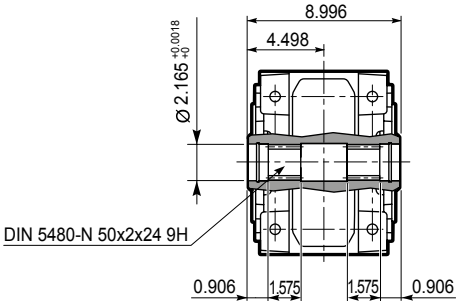
A 55...NQF



	Ø
NQF2-3/8	2.375

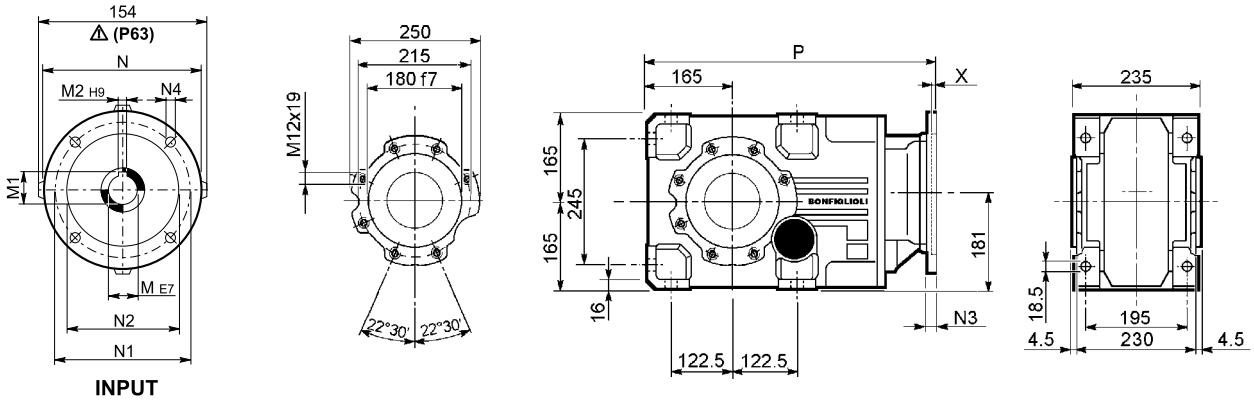


A 55...UV



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox supplied with the gearbox.

A 60...P(IEC)

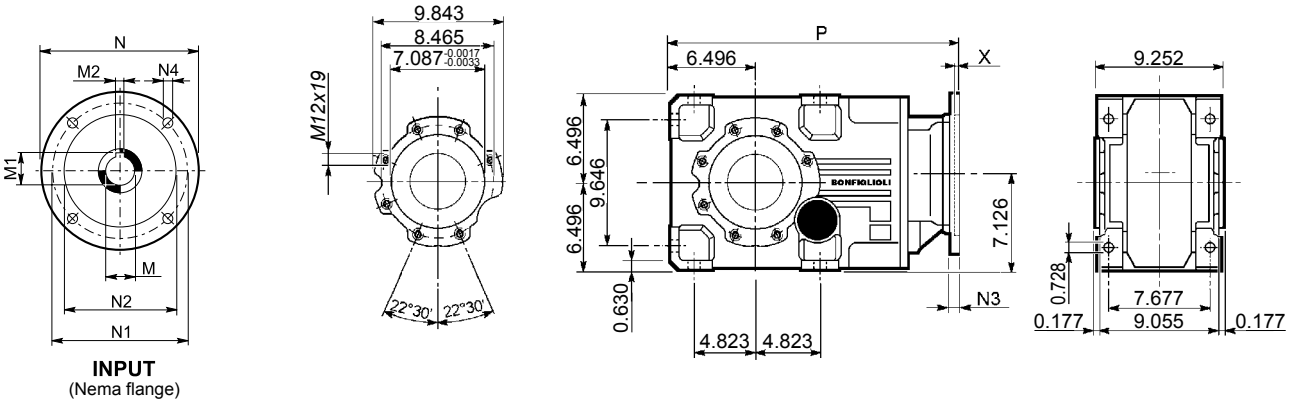


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
A 60 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	516.5	90
A 60 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	516.5	90
A 60 2/3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	536	91
A 60 2/3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	536	91
A 60 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	582.5	104
A 60 2/3	**P160**	42	45.3	12	350	300	250	23	18	5.5	633	121
A 60 2/3	**P180**	48	51.8	14	350	300	250	23	18	5.5	633	121
A 60 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	587	88
A 60 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	587	88
A 60 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	606.5	90
A 60 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	606.5	90
A 60 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94
A 60 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94

Metric output versions available also in combination with NEMA motor adaptor

A 60...N(NEMA Input)

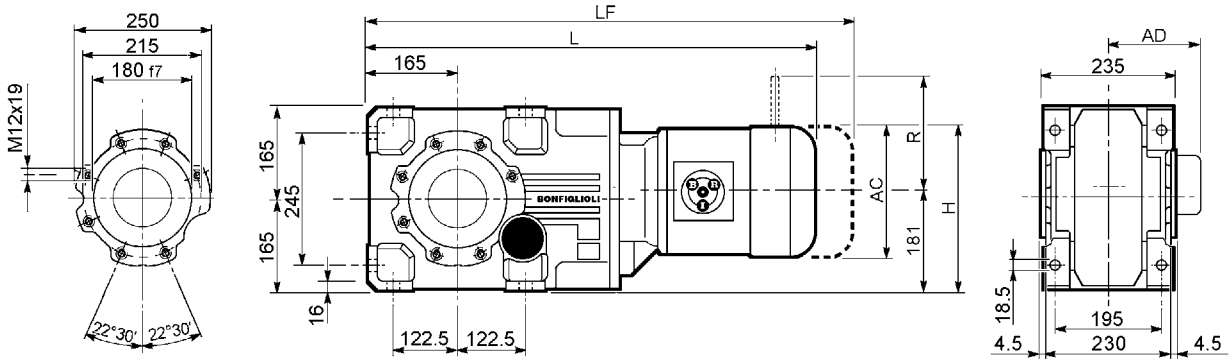


Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 60 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	21.122	201
A 60 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.870	209
A 60 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	23.110	229
A 60 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	25.906	297
A 60 2/3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	26.102	300
A 60 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.898	194
A 60 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.898	198
A 60 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	24.724	207

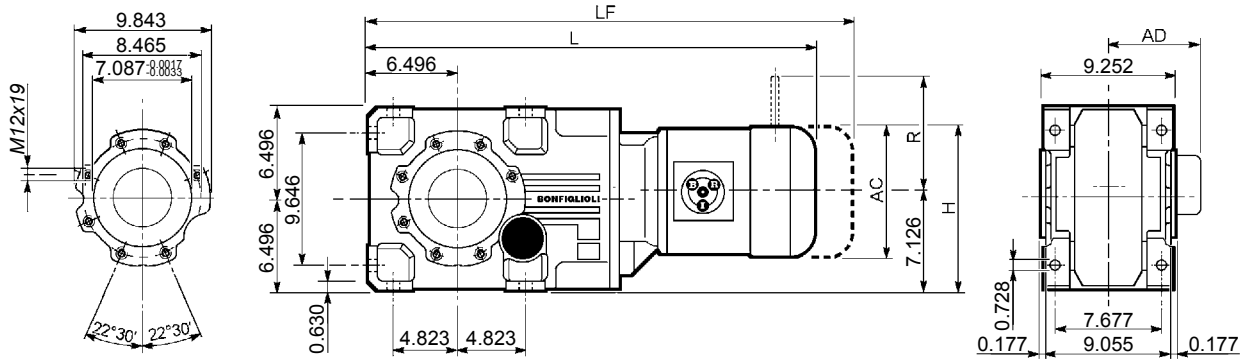
Imperial output versions available also in combination with IEC motor adaptor

A 60...M/ME/MX



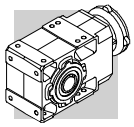
Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 60 2/3	**S2**	**ME2S**		156	256.5	700.5	119	98	770.5	97.2	129	143	134	143
A 60 2/3	**S2**	**MX2S**		156	256.5	744.5	119	103.1	816.5	104.4	129	143	134	143
A 60 2/3	**S3**	**ME3S**		195	276	743.5	142	103	824.5	106.5	160	155	160	155
A 60 2/3	**S3**	**MX3S**		195	276	775.5	142	106	853.5	111.5	160	155	160	155
A 60 2/3	**S3**	**ME3L**		195	276	775.5	142	111	851.5	113	160	155	160	155
A 60 2/3	**S3**	**MX3L**		195	276	819.5	142	117	895.5	120.5	160	155	160	155
A 60 2/3	**S4**	**ME4**	**MX4**	258	307.5	883.5	193	145	968.5	154.5	204	210	200	210
A 60 2/3	**S4**	**ME4LB**	**MX4LA**	258	307.5	918.5	193	153	992.5	164.5	226	210	217	210
A 60 2/3	**S5**	**ME5S**	**MX5S**	310	333.5	970	245	173	1056.5	224.5	266	245	247	245
A 60 2/3	**S5**	**ME5L**	**MX5L**	310	333.5	1014	245	189	1100.5	235.5	266	245	247	245
A 60 4	**S1**	**M1**		138	247.5	742	108	100	803	103	103	135	124	108
A 60 4	**S1**	**ME1**		138	247.5	742	108	100	803	103	103	135	124	135
A 60 4	**S2**	**ME2S**		156	256.5	771	119	104	827	107.5	129	143	134	143
A 60 4	**S2**	**MX2S**		156	256.5	815	119	109.1	873	114.7	129	143	134	143
A 60 4	**S3**	**ME3S**		195	276	814	142	109	881	116.8	160	155	160	155
A 60 4	**S3**	**MX3S**		195	276	846	142	112	910	121.8	160	155	160	155
A 60 4	**S3**	**ME3L**		195	276	846	142	117	908	123.3	160	155	160	155
A 60 4	**S3**	**MX3L**		195	276	890	142	123	952	130.8	160	155	160	155

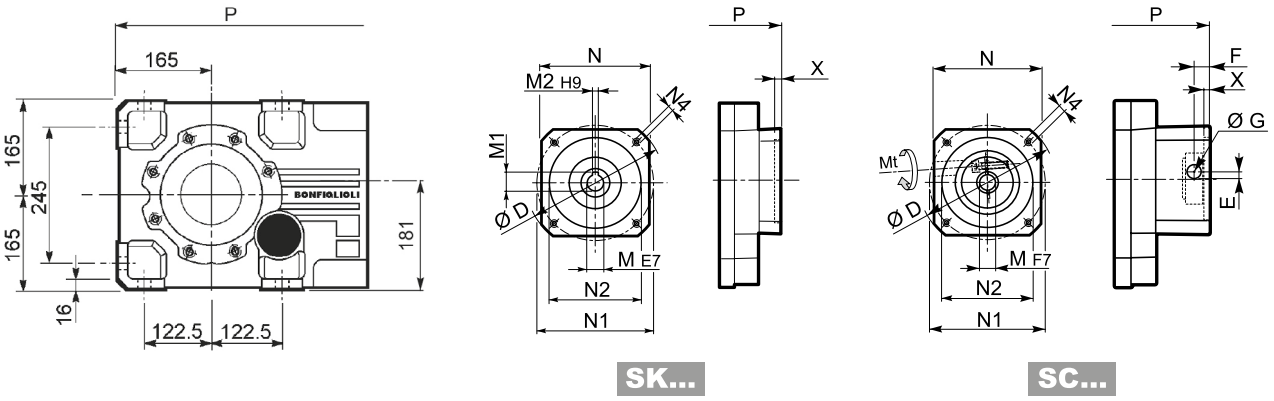


Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 60 2/3	**S2**	**ME2S**		6.142	10.098	27.579	4.685	216	—	—	—	—	—	—
A 60 2/3	**S2**	**MX2S**		6.142	10.098	29.311	4.685	227	—	—	—	—	—	—
A 60 2/3	**S3**	**ME3S**		7.677	10.866	29.272	5.591	227	—	—	—	—	—	—
A 60 2/3	**S3**	**MX3S**		7.677	10.866	30.531	5.591	234	—	—	—	—	—	—
A 60 2/3	**S3**	**ME3L**		7.677	10.866	30.531	5.591	245	—	—	—	—	—	—
A 60 2/3	**S3**	**MX3L**		7.677	10.866	32.264	5.591	258	—	—	—	—	—	—
A 60 2/3	**S4**	**ME4**	**MX4**	10.157	12.106	34.783	7.598	320	—	—	—	—	—	—
A 60 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	12.106	36.161	7.598	337	—	—	—	—	—	—
A 60 2/3	**S5**	**ME5S**	**MX5S**	12.205	13.130	38.189	9.646	381	—	—	—	—	—	—
A 60 2/3	**S5**	**ME5L**	**MX5L**	12.205	13.130	39.921	9.646	417	—	—	—	—	—	—
A 60 4	**S1**	**M1**		5.433	9.744	29.213	4.252	220	31.614	227	4.055	5.315	4.882	4.252
A 60 4	**S2**	**ME2S**		6.142	10.098	30.354	4.685	229	—	—	—	—	—	—
A 60 4	**S2**	**MX2S**		6.142	10.098	32.087	4.685	241	—	—	—	—	—	—
A 60 4	**S3**	**ME3S**		7.677	10.866	32.047	5.591	240	—	—	—	—	—	—
A 60 4	**S3**	**MX3S**		7.677	10.866	33.307	5.591	247	—	—	—	—	—	—
A 60 4	**S3**	**ME3L**		7.677	10.866	33.307	5.591	258	—	—	—	—	—	—
A 60 4	**S3**	**MX3L**		7.677	10.866	35.039	5.591	271	—	—	—	—	—	—



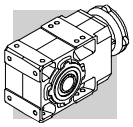
A 60...SK / SC



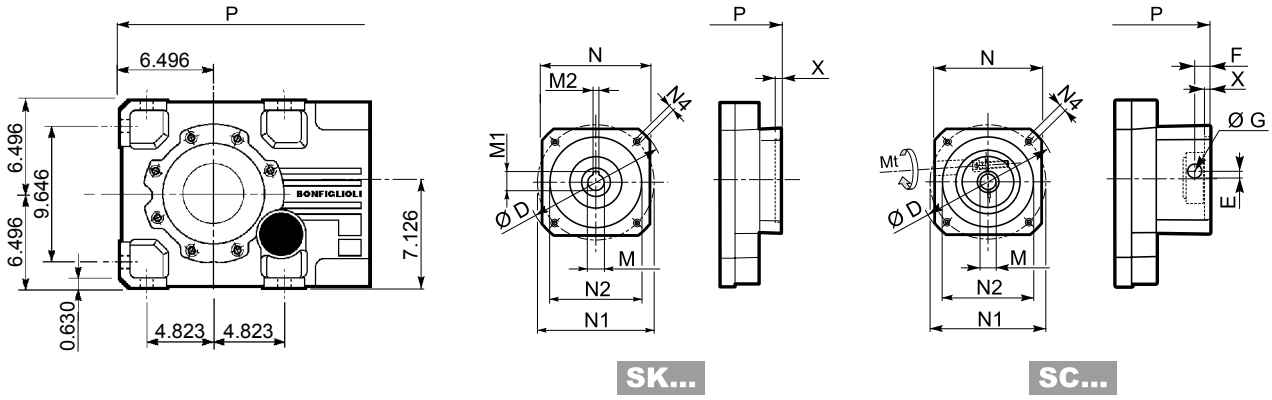
Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
A 60 4	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	—	606.5	89
A 60 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK110A**	140	19	21.8	6	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	**SK110B**	140	24	27.3	8	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	536	606.5	97/97/103
A 60 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	582.5	—	102/102
A 60 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	582.5	—	102/102
A 60 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	582.5	—	102/102

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	Kg
A 60 4	**SC80B**	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	630	90
A 60 2/3/4	**SC80C**	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	559.5	630	94/94/93
A 60 2/3/4	**SC95A**	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	**SC95B**	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	**SC95C**	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	**SC110A**	M6 15	140	16.5	16	17.75	19	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	**SC110B**	M6 15	140	16.5	16	17.75	24	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	**SC130A**	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	559.5	630	96/96/104
A 60 2/3	**SC130B**	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	605.5	—	105/105
A 60 2/3	**SC180A**	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	609.5	—	105/105
A 60 2/3	**SC180B**	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	609.5	—	105/105



A 60...SK / SC

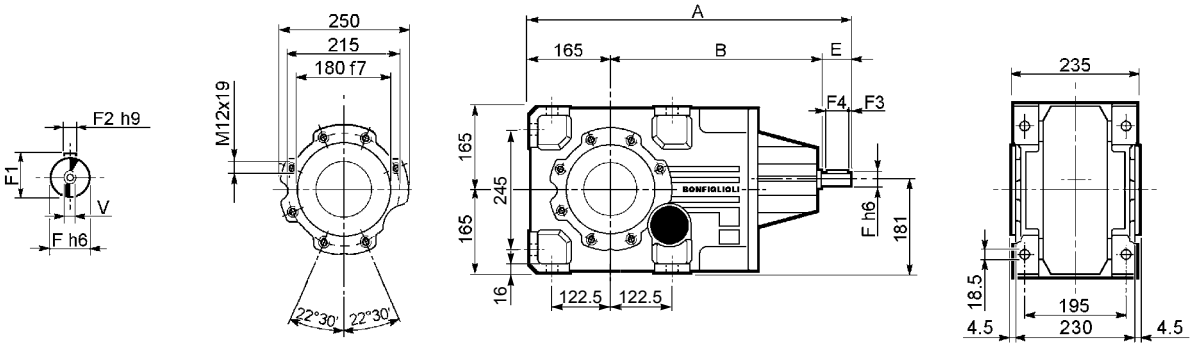


Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
A 60 4	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	—	23.878	196
A 60 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK110A**	5.512	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	21.102	23.878	205/205/203
A 60 2/3/4	**SK110B**	5.512	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	21.102	23.878	205/205/203
A 60 2/3/4	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	21.102	23.878	214/214/227
A 60 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	22.933	—	225/225
A 60 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	22.933	—	225/225
A 60 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	22.933	—	225/225

		Mt [lb·in]		D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	lbs
A 60 4	**SC80B**	*M6*	133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	—	24.803	198
A 60 2/3/4	**SC80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC110A**	*M6*	133	5.512	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	22.028	24.803	209/209/205
A 60 2/3/4	**SC110B**	*M6*	133	5.512	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	22.028	24.803	209/209/205
A 60 2/3/4	**SC130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	22.028	24.803	212/212/229
A 60 2/3	**SC130B**	*M8*	319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	23.839	—	231/231
A 60 2/3	**SC180A**	*M8*	319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	23.996	—	231/231
A 60 2/3	**SC180B**	*M8*	319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	23.996	—	231/231

A 60...HS

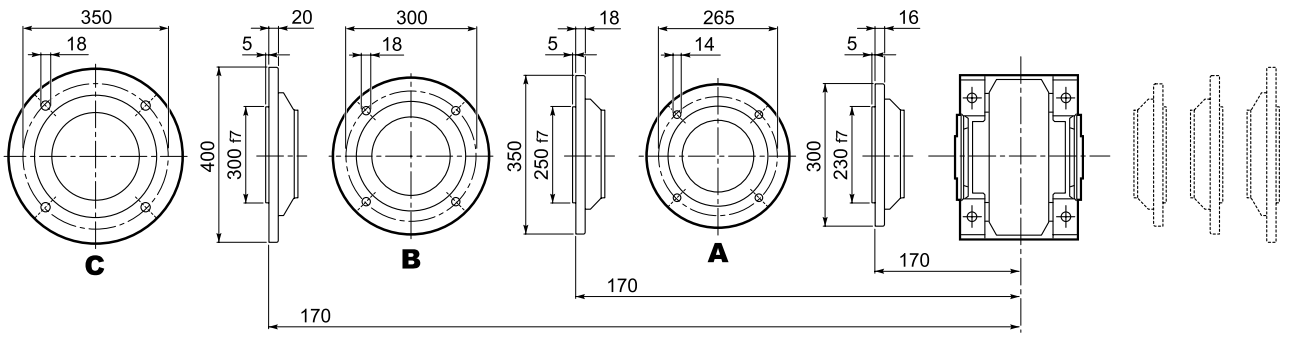


Dimensions are in mm

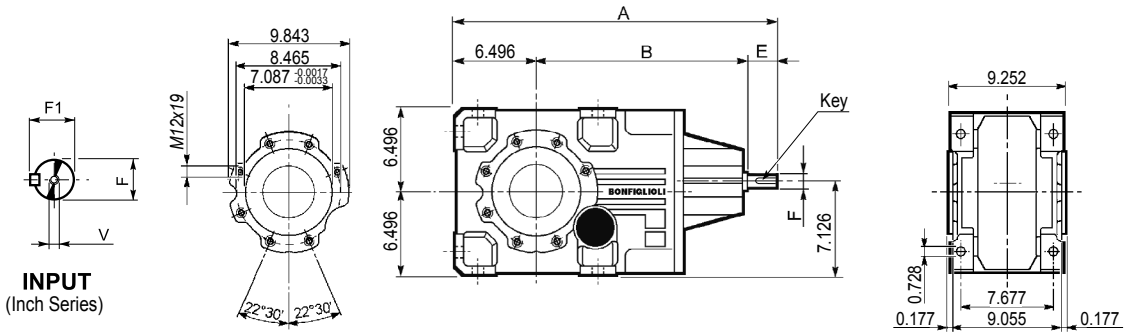
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 60 2		633	408	60	28	31	8	5.0	50	M10x22	106
A 60 3	**HS**	633	408	60	28	31	8	5.0	50	M10x22	106
A 60 4		676	461	50	24	27	8	2.5	45	M8x19	112

Metric output versions available also in combination with NHS input

A 60...F...



A 60...NHS

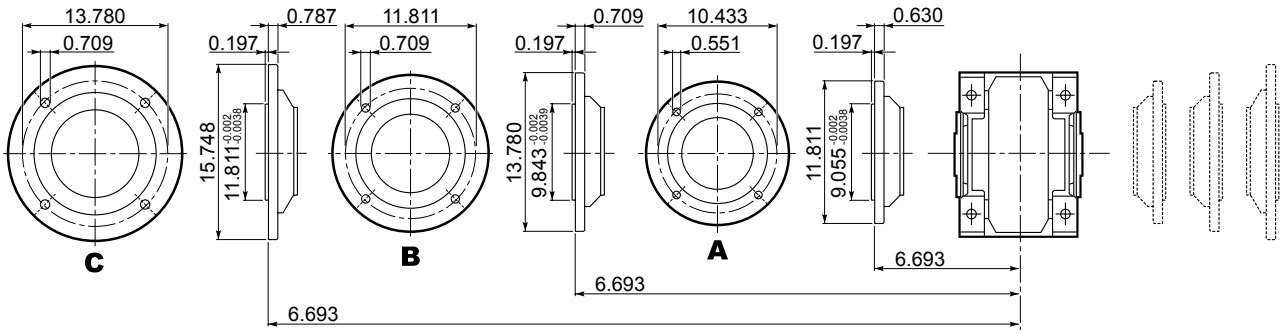


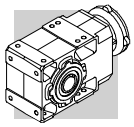
Dimensions are in Inch except when shown in *italic [mm]*

		A	B	E	F	F1	V	Key	lbs
A 60 2	**NHS**	24.921	16.063	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	234
A 60 3	**NHS**	24.921	16.063	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	234
A 60 4	**NHS**	26.614	18.150	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	247

Imperial output versions available also in combination with HS input

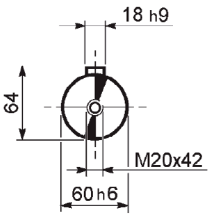
A 60...F...

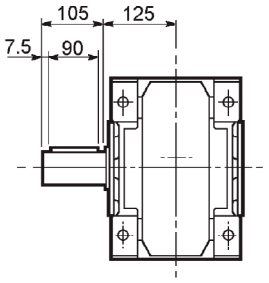




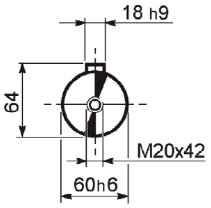
A 60

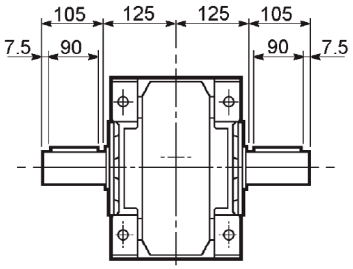
A 60...UR



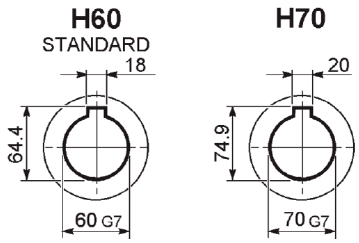


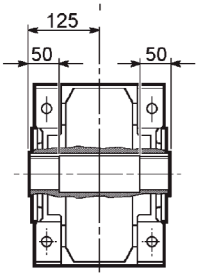
A 60...UD



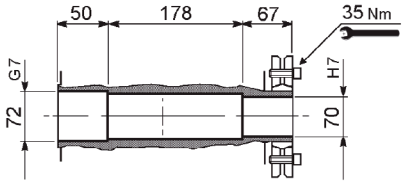


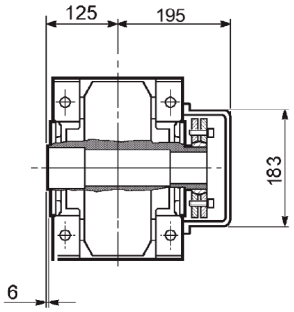
A 60...UH





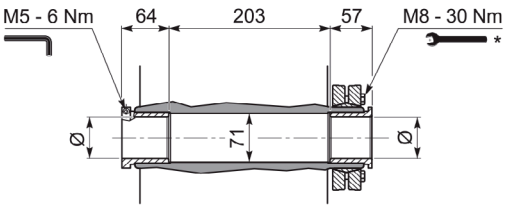
A 60...US

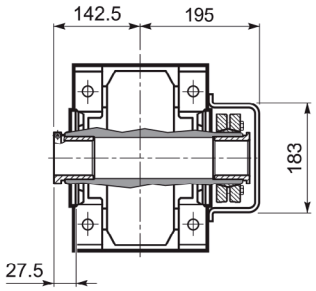




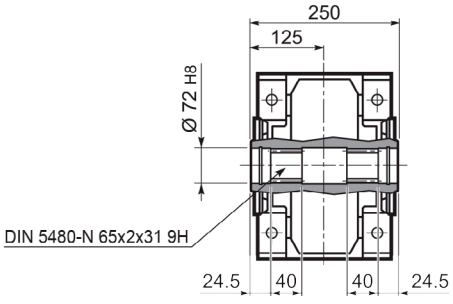
A 60...QF

	Ø
QF60	60
QF65	65
QF70	70



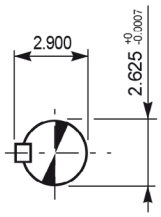


A 60...UV

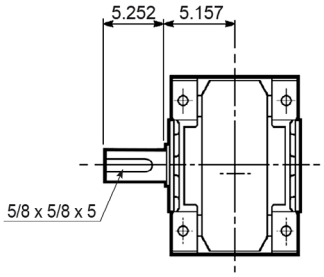


A 60

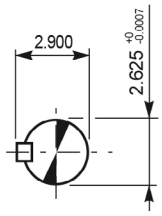
A 60...NUR



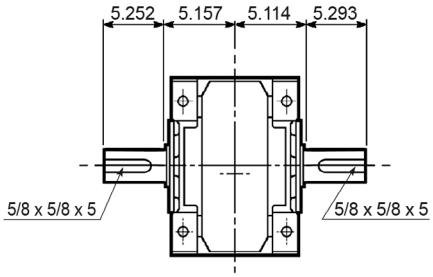
OUTPUT
(Inch Series)



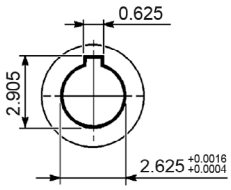
A 60...NUD



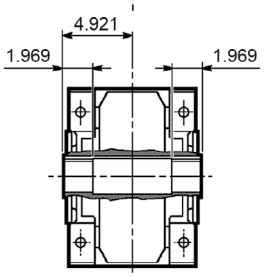
OUTPUT
(Inch Series)



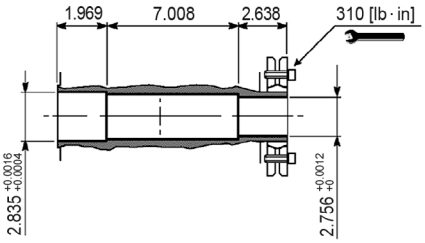
A 60...NUH

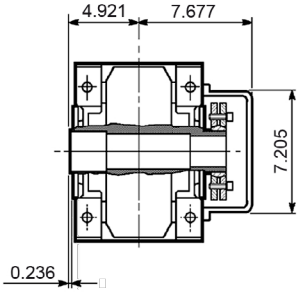


OUTPUT
(Inch Series)

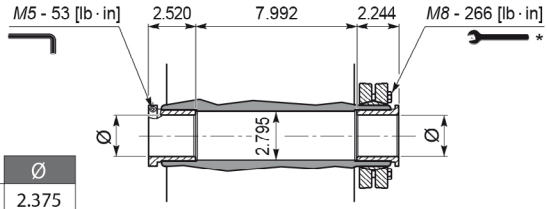


A 60...US

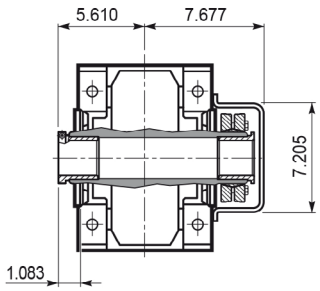




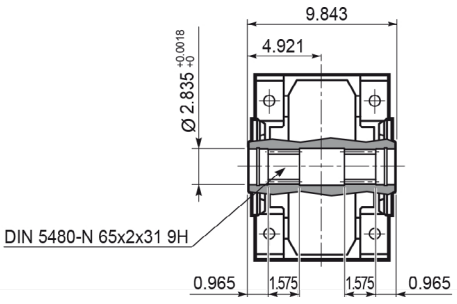
A 60...NQF



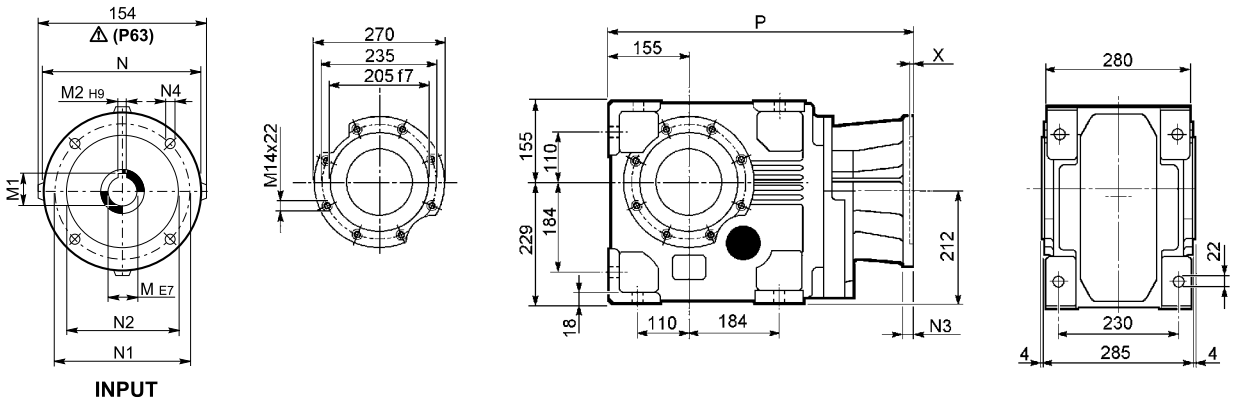
	Ø
NQF2-3/8	2.375
NQF2-7/16	2.438
NQF2-3/4	2.750



A 60...UV



A 70...P (IEC)

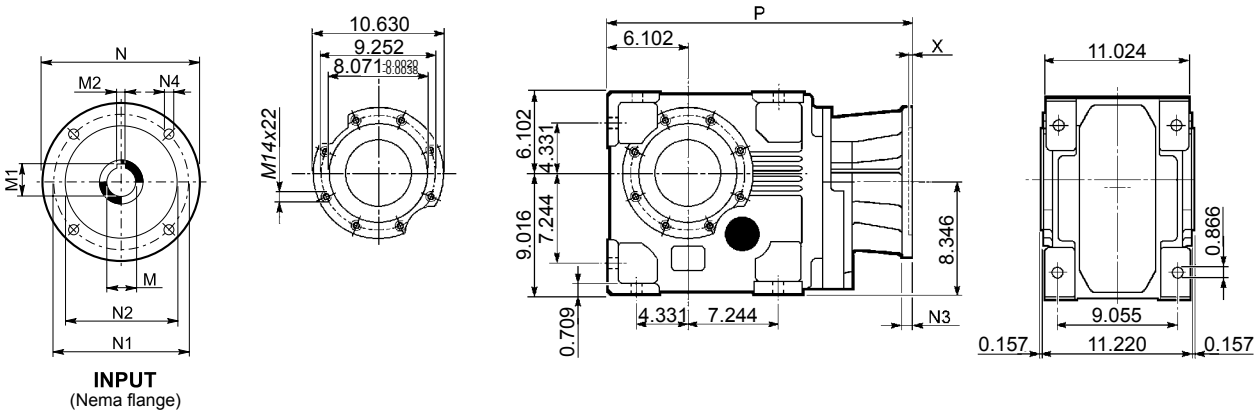


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
A 70 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	524	144
A 70 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	524	144
A 70 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	**P132**	38	41.3	10	300	265	230	16	14	5	570.5	154
A 70 3	**P160**	42	45.3	12	350	300	250	23	18	6	626	169
A 70 3	**P180**	48	51.8	14	350	300	250	23	18	6	626	169
A 70 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	651	179
A 70 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	555.5	146
A 70 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	555.5	146
A 70 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	575	147
A 70 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	575	147
A 70 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	**P132**	38	41.3	10	300	265	230	16	14	5	618.5	157

Metric output versions available also in combination with NEMA motor adaptor

A 70...N(NEMA Input)

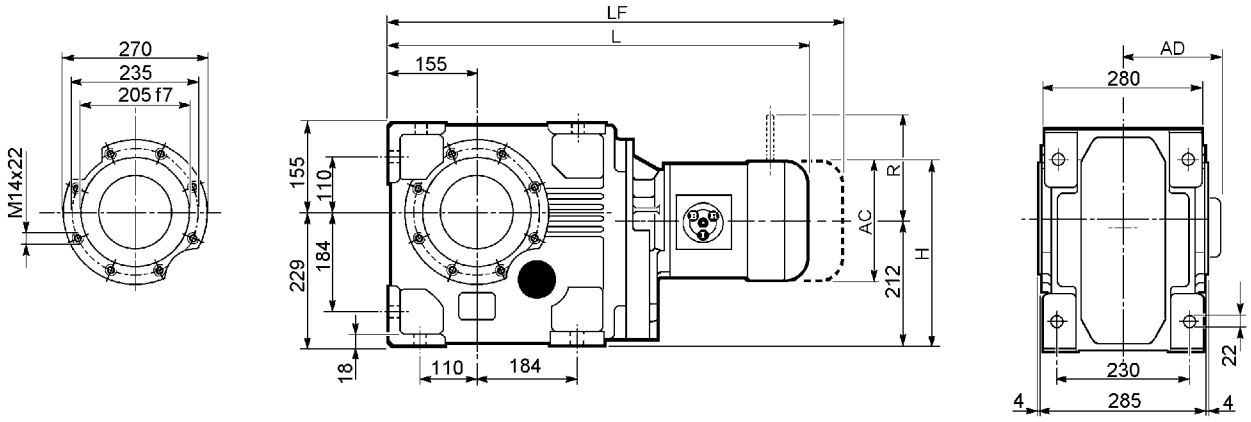


Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 70 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	20.827	317
A 70 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.398	322
A 70 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	22.638	340
A 70 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	25.630	402
A 70 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	25.827	406
A 70 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	22.657	322
A 70 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	22.657	324
A 70 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	23.406	326
A 70 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	24.528	346

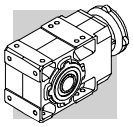
Imperial output versions available also in combination with IEC motor adaptor

A 70...M/ME/MX

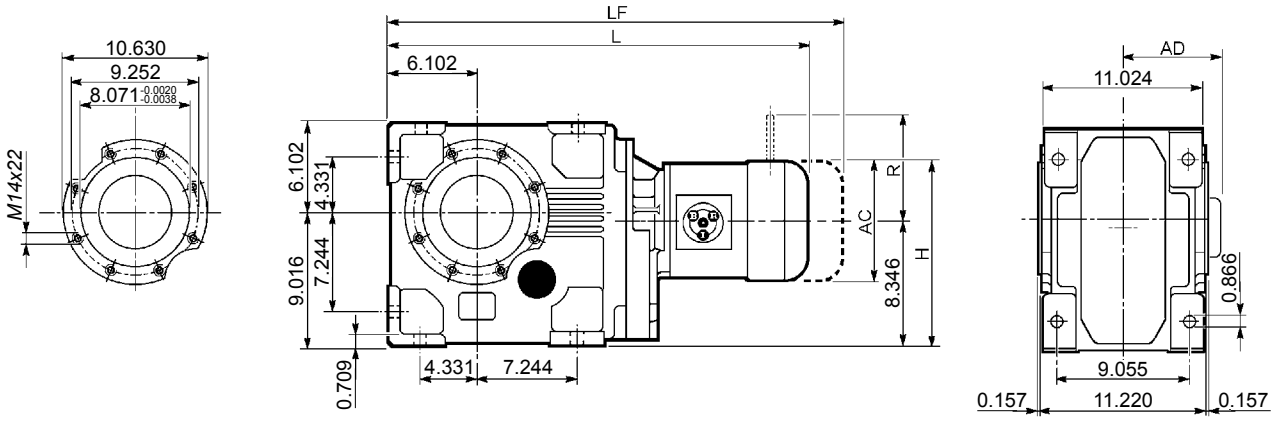


Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 70 3	**S2**	**ME2S**		156	290	688.5	119	152	758.5	155.9	129	143	134	143
A 70 3	**S2**	**MX2S**		156	290	732.5	119	157.1	804.5	163.1	129	143	134	143
A 70 3	**S3**	**ME3S**		195	309.5	731.5	142	158.5	812.5	165.2	160	155	160	155
A 70 3	**S3**	**MX3S**		195	309.5	763.5	142	161.5	841.5	170.2	160	155	160	155
A 70 3	**S3**	**ME3L**		195	309.5	763.5	142	164	839.5	171.7	160	155	160	155
A 70 3	**S3**	**MX3L**		195	309.5	807.5	142	170	883.5	179.2	160	155	160	155
A 70 3	**S4**	**ME4**	**MX4**	258	341	872.5	193	198	956.5	191.2	204	210	200	210
A 70 3	**S4**	**ME4LB**	**MX4LA**	258	341	907.5	193	206	981.5	223.2	226	210	217	210
A 70 3	**S5**	**ME5S**	**MX5S**	310	367	958	245	226	1044.5	283.2	266	245	247	245
A 70 3	**S5**	**ME5L**	**MX5L**	310	367	1002	245	242	1088.5	294.2	266	245	247	245
A 70 4	**S1**	**M1**		138	281	710.5	108	152	771.5	155	103	135	124	108
A 70 4	**S1**	**ME1**		138	281	710.5	108	152	771.5	155	103	135	124	135
A 70 4	**S2**	**ME2S**		156	290	739.5	119	156	809.5	159.5	129	143	134	143
A 70 4	**S2**	**MX2S**		156	290	783.5	119	161.1	855.5	166.7	129	143	134	143
A 70 4	**S3**	**ME3S**		195	309.5	782.5	142	162.5	863.5	168.8	160	155	160	155
A 70 4	**S3**	**MX3S**		195	309.5	814.5	142	165.5	892.5	173.8	160	155	160	155
A 70 4	**S3**	**ME3L**		195	309.5	814.5	142	168	890.5	175.5	160	155	160	155
A 70 4	**S3**	**MX3L**		195	309.5	858.5	142	174	934.5	182.8	160	155	160	155
A 70 4	**S4**	**ME4**	**MX4**	258	341	922.5	193	202	1007.5	194.8	204	210	200	210
A 70 4	**S4**	**ME4LB**	**MX4LA**	258	341	957.5	193	210	1032.5	226.8	226	210	217	210

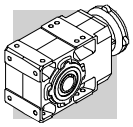


A 70...M/ME/MX

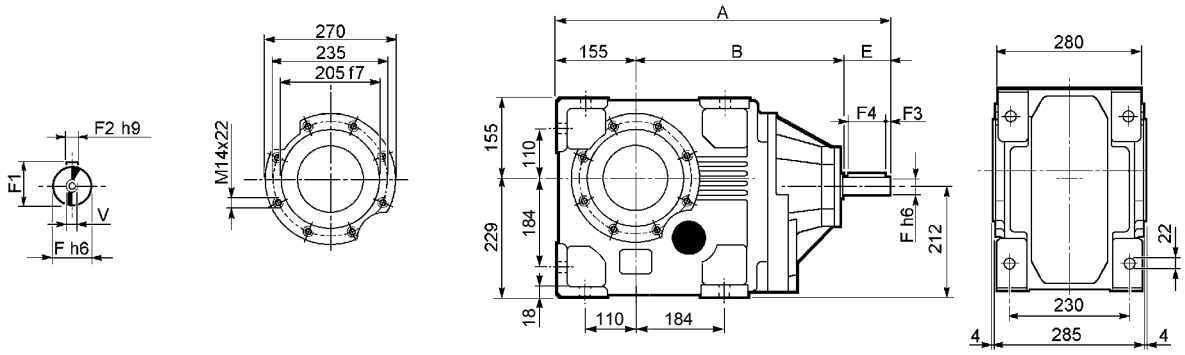


Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 70 3	**S2**	**ME2S**		6.142	11.417	27.106	4.685	335	—	—	—	—	—	—
A 70 3	**S2**	**MX2S**		6.142	11.417	28.839	4.685	346	—	—	—	—	—	—
A 70 3	**S3**	**ME3S**		7.677	12.185	28.799	5.591	349	—	—	—	—	—	—
A 70 3	**S3**	**MX3S**		7.677	12.185	30.059	5.591	356	—	—	—	—	—	—
A 70 3	**S3**	**ME3L**		7.677	12.185	30.059	5.591	362	—	—	—	—	—	—
A 70 3	**S3**	**MX3L**		7.677	12.185	31.791	5.591	375	—	—	—	—	—	—
A 70 3	**S4**	**ME4**	**MX4**	10.157	13.425	34.350	7.598	437	—	—	—	—	—	—
A 70 3	**S4**	**ME4LB**	**MX4LA**	10.157	13.425	35.728	7.598	454	—	—	—	—	—	—
A 70 3	**S5**	**ME5S**	**MX5S**	12.205	14.449	37.717	9.646	498	—	—	—	—	—	—
A 70 3	**S5**	**ME5L**	**MX5L**	12.205	14.449	39.449	9.646	534	—	—	—	—	—	—
A 70 4	**S1**	**M1**		5.433	11.063	27.972	4.252	335	30.374	342	4.055	5.315	4.882	4.252
A 70 4	**S2**	**ME2S**		6.142	11.417	29.114	4.685	344	—	—	—	—	—	—
A 70 4	**S2**	**MX2S**		6.142	11.417	30.846	4.685	355	—	—	—	—	—	—
A 70 4	**S3**	**ME3S**		7.677	12.185	30.807	5.591	358	—	—	—	—	—	—
A 70 4	**S3**	**MX3S**		7.677	12.185	32.067	5.591	365	—	—	—	—	—	—
A 70 4	**S3**	**ME3L**		7.677	12.185	32.067	5.591	370	—	—	—	—	—	—
A 70 4	**S3**	**MX3L**		7.677	12.185	33.799	5.591	384	—	—	—	—	—	—
A 70 4	**S4**	**ME4**	**MX4**	10.157	13.425	36.319	7.598	445	—	—	—	—	—	—
A 70 4	**S4**	**ME4LB**	**MX4LA**	10.157	13.425	37.697	7.598	463	—	—	—	—	—	—



A 70...HS

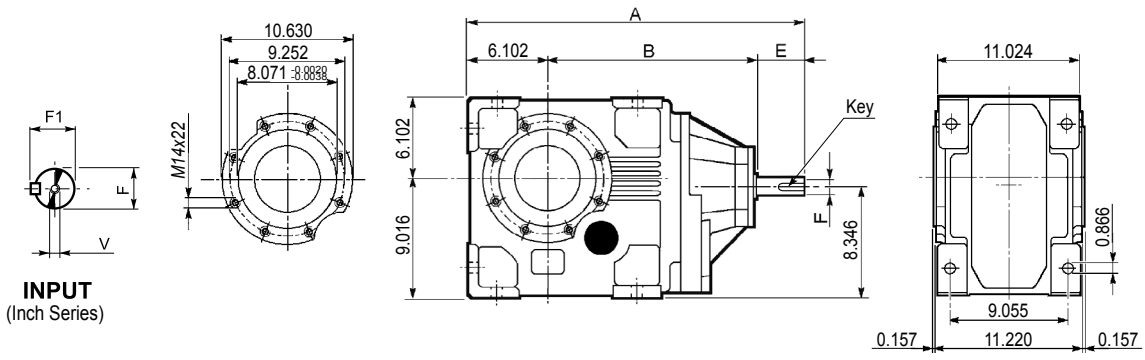


Dimensions are in mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 70 3	**HS**	708.5	443.5	110	42	45	12	10	90	M12x28	165
A 70 4		644.5	439.5	50	24	27	8	2.5	45	M8x19	149

Metric output versions available also in combination with NHS input

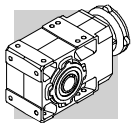
A 70...NHS



Dimensions are in Inch except when shown in *italic [mm]*

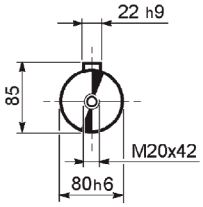
		A	B	E	F	F1	V	Key	lbs
A 70 3	**NHS**	27.813	17.461	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	364
A 70 4	**NHS**	25.374	17.303	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	328

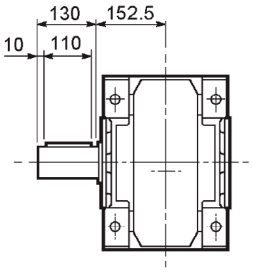
Imperial output versions available also in combination with HS input



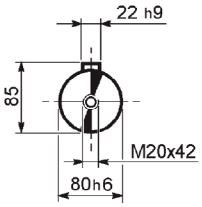
A 70

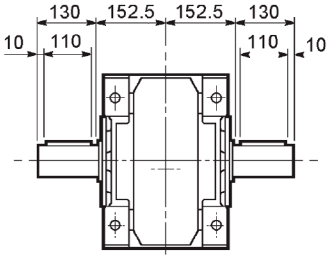
A 70...UR



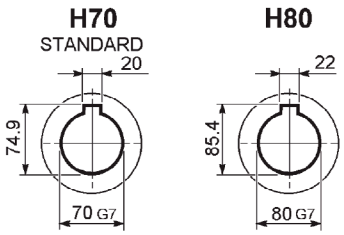


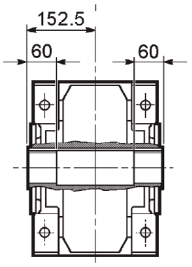
A 70...UD



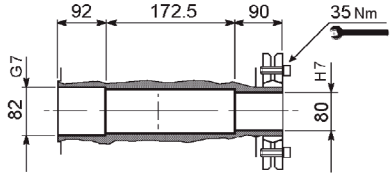


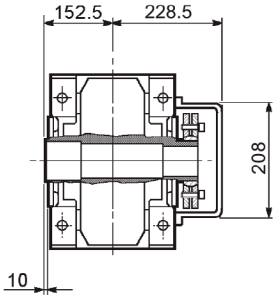
A 70...UH



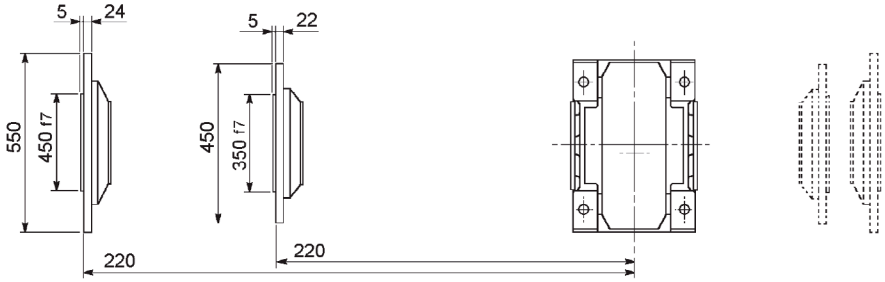


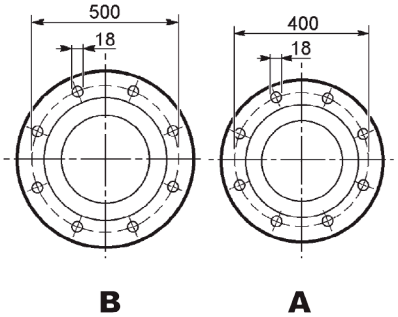
A 70...US





A 70...F...

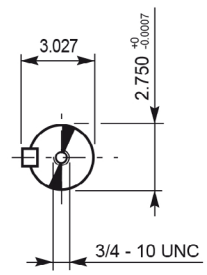


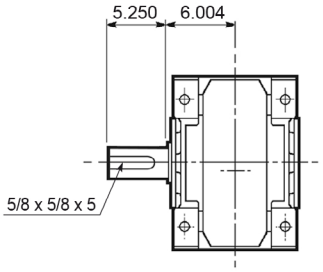


A 70

A 70...NUR

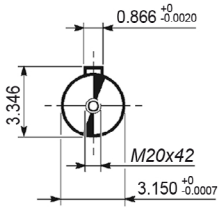
OUTPUT
(Inch Series)

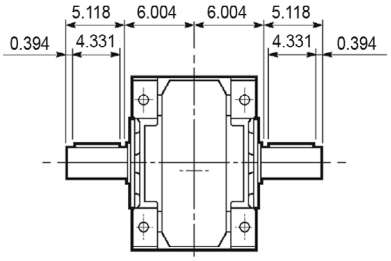




A 70...UD

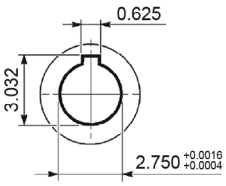
OUTPUT

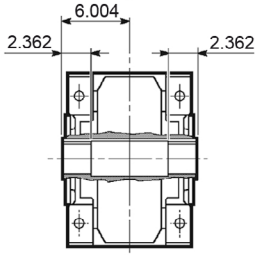




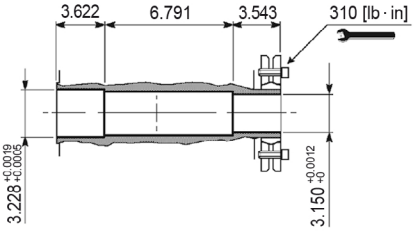
A 70...NUH

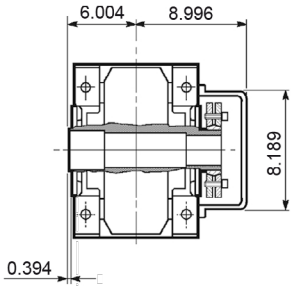
OUTPUT
(Inch Series)



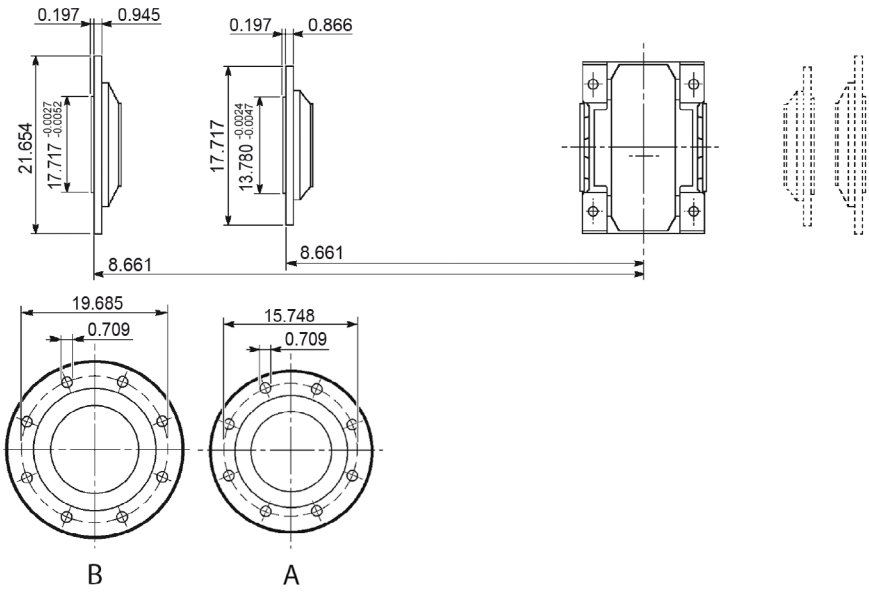


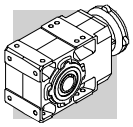
A 70...US



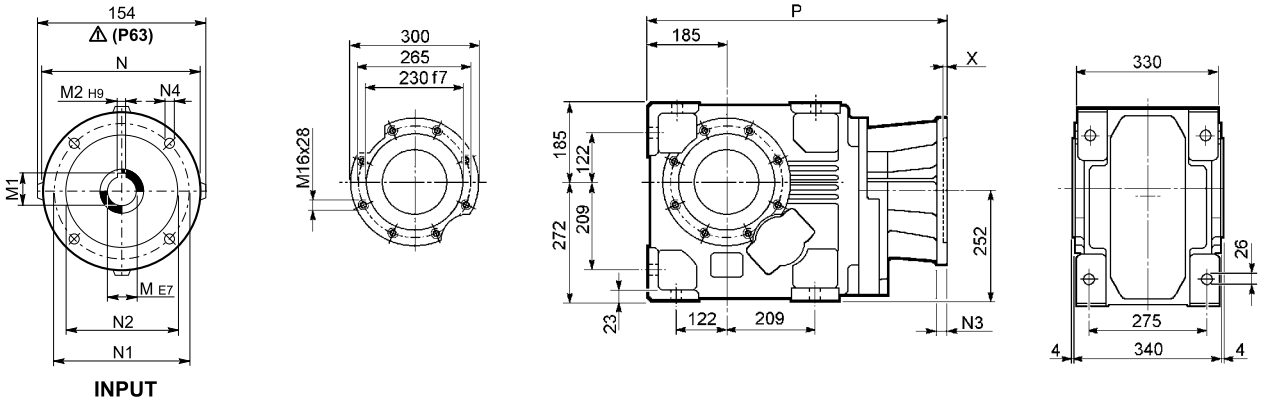


A 70...F...





A 80...P(IEC)

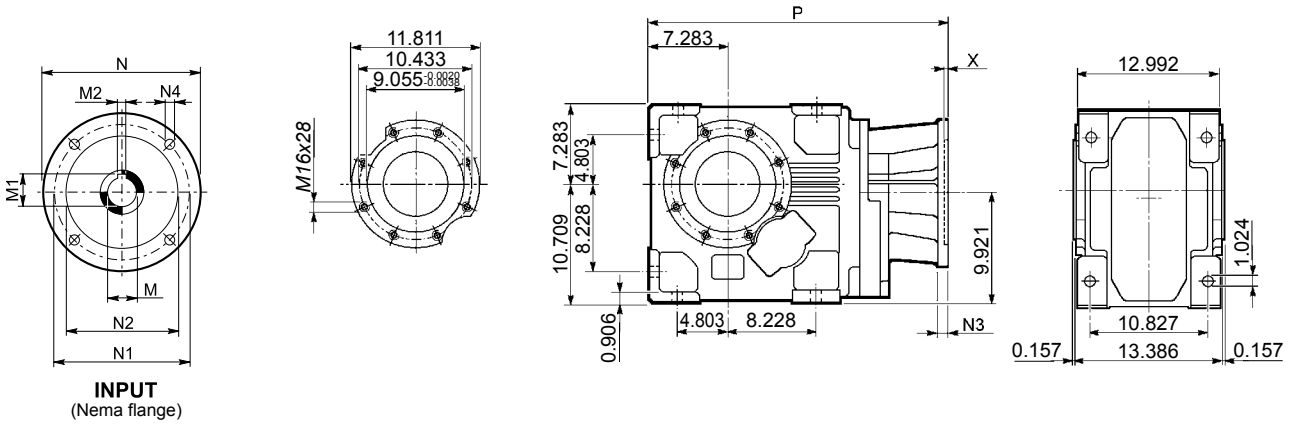


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
A 80 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	602	243
A 80 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	602	243
A 80 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	**P132**	38	41.3	10	300	265	230	16	14	5	648.5	253
A 80 3	**P160**	42	45.3	12	350	300	250	23	18	6	704	268
A 80 3	**P180**	48	51.8	14	350	300	250	23	18	6	704	268
A 80 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	729	279
A 80 3	**P225**	60	64.4	18	450	400	350	25	18	6	774.5	298
A 80 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	645.5	248
A 80 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	645.5	248
A 80 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	665	249
A 80 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	665	249
A 80 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	**P132**	38	41.3	10	300	265	230	16	M12x16	5	711.5	259

Metric output versions available also in combination with NEMA motor adaptor

A 80...N(NEMA Input)

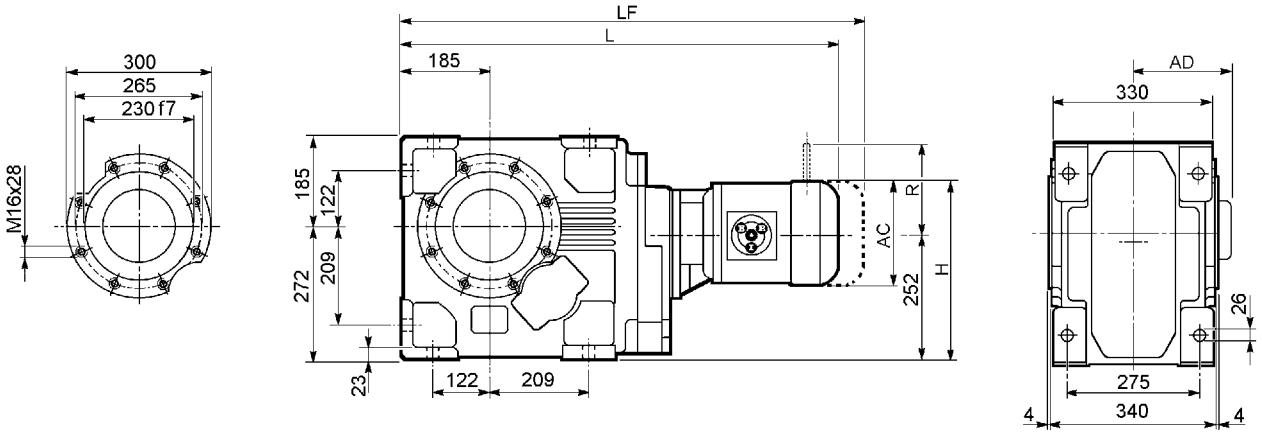


Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 80 3	**N180TC**	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	24.469	540
A 80 3	**N210TC**	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	25.709	558
A 80 3	**N250TC**	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0.0014}_{+0}$	13.780	7.250	8.500	—	0.551	0.217	28.701	621
A 80 3	**N280TC**	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0.0017}_{+0}$	13.740	10.500	9.000	—	0.551	0.217	28.898	624
A 80 3	**N320TC**	2.125 $^{+0.0035}_{+0.0024}$	2.350	0.500 $^{+0.0017}_{+0}$	17.677	11.000	12.500	—	0.669	0.217	31.752	723
A 80 4	**N56C**	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	26.201	547
A 80 4	**N140TC**	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	26.201	549
A 80 4	**N180TC**	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	26.949	551
A 80 4	**N210TC**	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	28.189	571

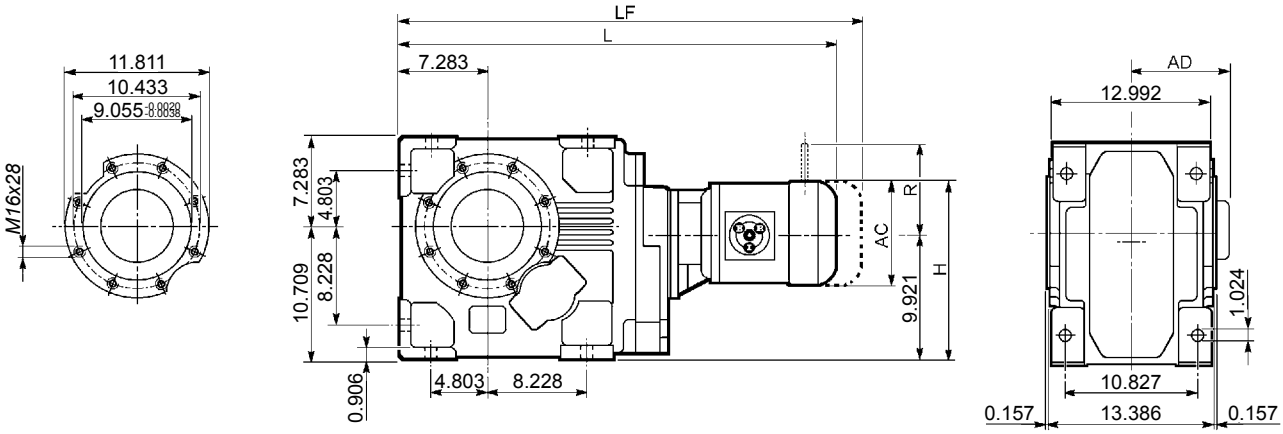
Imperial output versions available also in combination with IEC motor adaptor

A 80...M/ME/MX



Dimensions are in mm

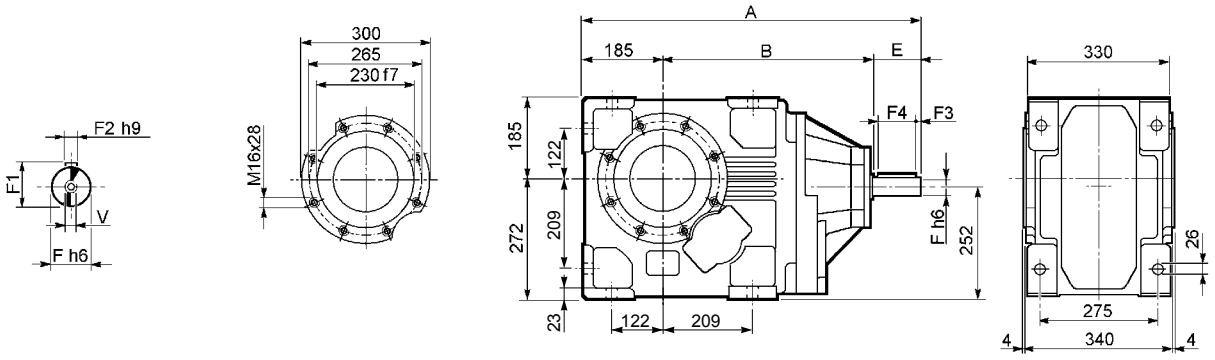
									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 80 3	**S3**	**ME3S**		195	349.5	809.5	142	257.5	905.5	264	160	155	160	155
A 80 3	**S3**	**MX3S**		195	349.5	841.5	142	260.5	934.5	269	160	155	160	155
A 80 3	**S3**	**ME3L**		195	349.5	841.5	142	264	932.5	270.5	160	155	160	155
A 80 3	**S3**	**MX3L**		195	349.5	885.5	142	270	976.5	278	160	155	160	155
A 80 3	**S4**	**ME4**	**MX4**	258	381	949.5	193	298	1049.5	288	204	210	200	210
A 80 3	**S4**	**ME4LB**	**MX4LA**	258	381	984.5	193	306	1074.5	322	226	210	217	210
A 80 3	**S5**	**ME5S**	**MX5S**	310	407	1036	245	326	1137.5	382	266	245	247	245
A 80 3	**S5**	**ME5L**	**MX5L**	310	407	1080	245	342	1181.5	393	266	245	247	245=
A 80 4	**S1**	**M1**		138	321	800.5	108	246	861.5	249	103	135	124	108
A 80 4	**S1**	**ME1**		138	321	800.5	108	246	851.5	249	103	135	124	135
A 80 4	**S2**	**ME2S**		156	330	829.5	119	250	946.5	253.7	129	143	134	143
A 80 4	**S2**	**MX2S**		156	330	873.5	119	255.1	992.5	260.9	129	143	134	143
A 80 4	**S3**	**ME3S**		195	349.5	872.5	142	256.5	1000.5	263	160	155	160	155
A 80 4	**S3**	**MX3S**		195	349.5	904.5	142	259.5	1029.5	268	160	155	160	155
A 80 4	**S3**	**ME3L**		195	349.5	904.5	142	262	1027.5	269.5	160	155	160	155
A 80 4	**S3**	**MX3L**		195	349.5	948.5	142	268	1071.5	277	160	155	160	155
A 80 4	**S4**	**ME4**	**MX4**	258	381	1012.5	193	296	1144.5	289	204	210	200	210
A 80 4	**S4**	**ME4LB**	**MX4LA**	258	381	1047.5	193	304	1169.5	321	226	210	217	210



Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 80 3	**S3**	**ME3S**		7.677	13.760	31.870	5.591	568	—	—	—	—	—	—
A 80 3	**S3**	**MX3S**		7.677	13.760	33.130	5.591	574	—	—	—	—	—	—
A 80 3	**S3**	**ME3L**		7.677	13.760	33.130	5.591	582	—	—	—	—	—	—
A 80 3	**S3**	**MX3L**		7.677	13.760	34.862	5.591	595	—	—	—	—	—	—
A 80 3	**S4**	**ME4**	**MX4**	10.157	15.000	37.382	7.598	657	—	—	—	—	—	—
A 80 3	**S4**	**ME4LB**	**MX4LA**	10.157	15.000	38.760	7.598	675	—	—	—	—	—	—
A 80 3	**S5**	**ME5S**	**MX5S**	12.205	16.024	40.787	9.646	719	—	—	—	—	—	—
A 80 3	**S5**	**ME5L**	**MX5L**	12.205	16.024	42.520	9.646	754	—	—	—	—	—	—
A 80 4	**S1**	**M1**		5.433	12.638	31.516	4.252	542	33.917	549	4.055	5.315	4.882	4.252
A 80 4	**S2**	**M2S**		6.142	12.992	32.657	4.685	551	35.413	560	5.079	5.748	5.276	4.685
A 80 4	**S2**	**ME2S**		6.142	12.992	32.657	4.685	551	—	—	—	—	—	—
A 80 4	**S2**	**MX2S**		6.142	12.992	32.657	4.685	562	—	—	—	—	—	—
A 80 4	**S3**	**ME3S**		7.677	13.760	34.350	5.591	565	—	—	—	—	—	—
A 80 4	**S3**	**MX3S**		7.677	13.760	35.610	5.591	572	—	—	—	—	—	—
A 80 4	**S3**	**ME3L**		7.677	13.760	35.610	5.591	578	—	—	—	—	—	—
A 80 4	**S3**	**MX3L**		7.677	13.760	37.343	5.591	591	—	—	—	—	—	—
A 80 4	**S4**	**ME4**	**MX4**	10.157	15.000	39.862	7.598	653	—	—	—	—	—	—
A 80 4	**S4**	**ME4LB**	**MX4LA**	10.157	15.000	41.240	7.598	670	—	—	—	—	—	—

A 80...HS

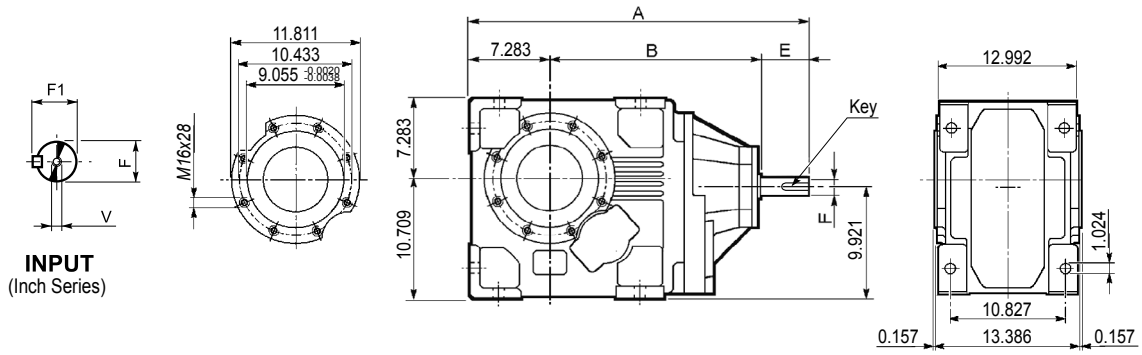


Dimensions are in mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 80 3	**HS**	786.5	491.5	110	42	45	12	10	90	M12x28	265
A 80 4		735	500	50	24	27	8	2.5	45	M8x19	250

Metric output versions available also in combination with NHS input

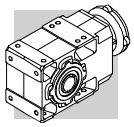
A 80...NHS



Dimensions are in Inch except when shown in *italic [mm]*

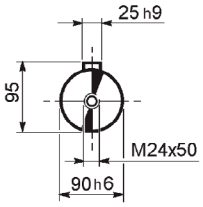
		A	B	E	F	F1	V	Key	lbs
A 80 3	**NHS**	30.884	19.350	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	584
A 80 4	**NHS**	28.937	19.685	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	551

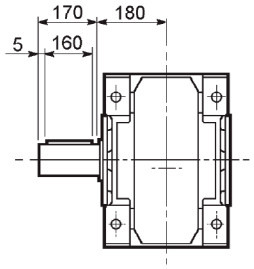
Imperial output versions available also in combination with HS input



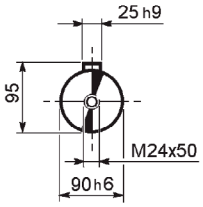
A 80

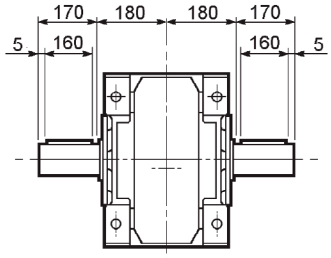
A 80...UR



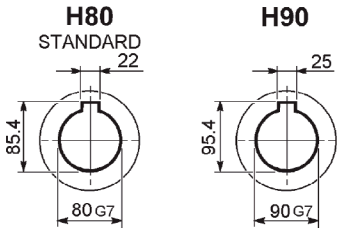


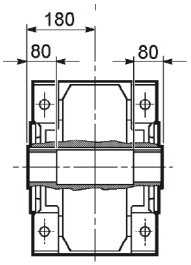
A 80...UD



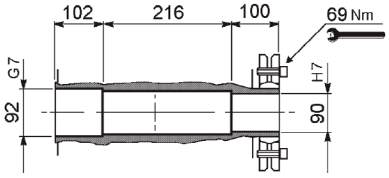


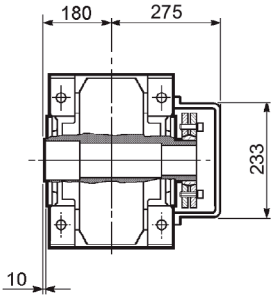
A 80...UH



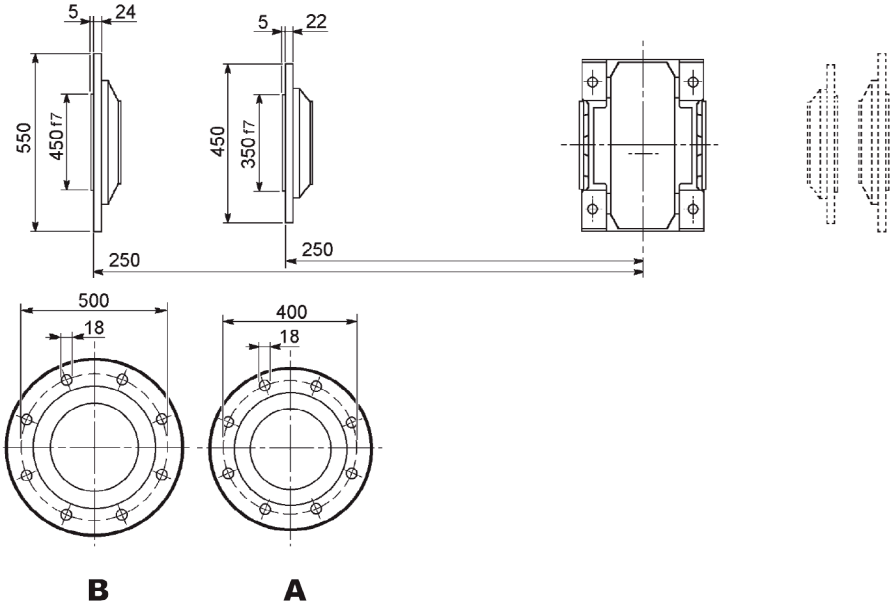


A 80...US





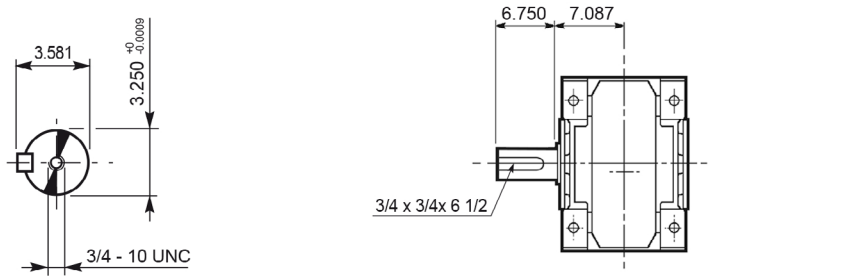
A 80...F...



A 80

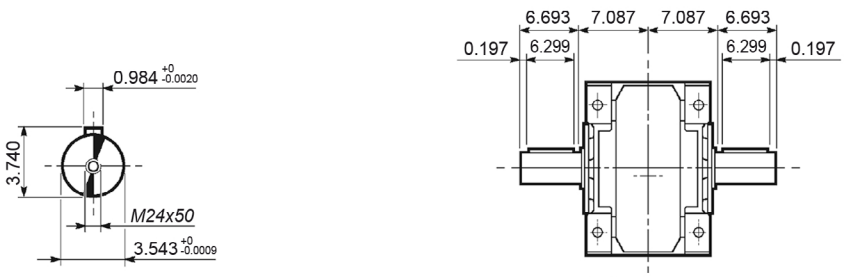
A 80...NUR

OUTPUT
(Inch Series)



A 80...UD

OUTPUT

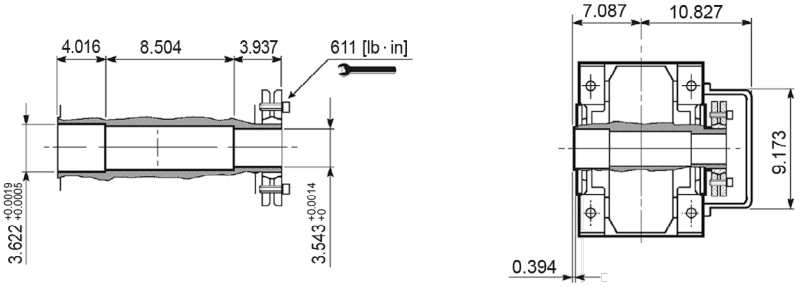


A 80...NUH

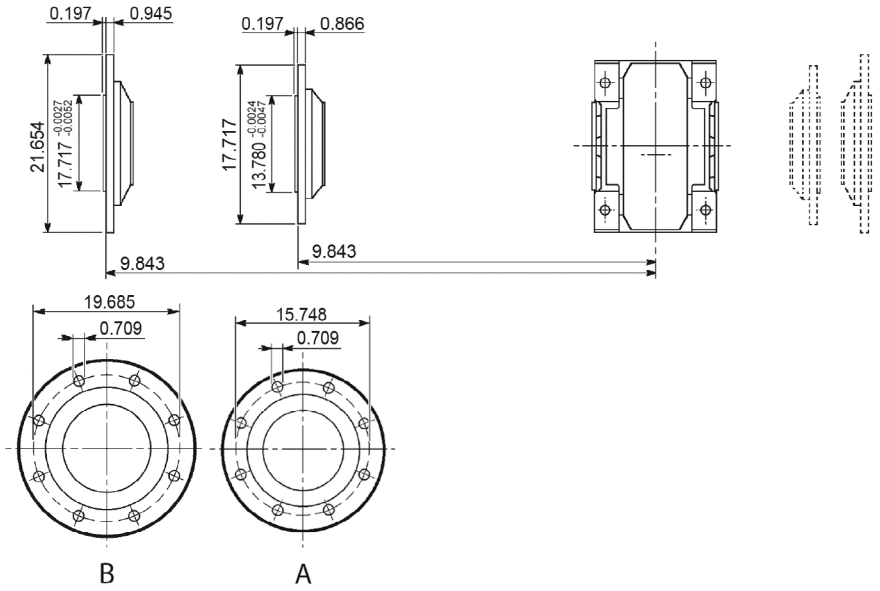
OUTPUT
(Inch Series)



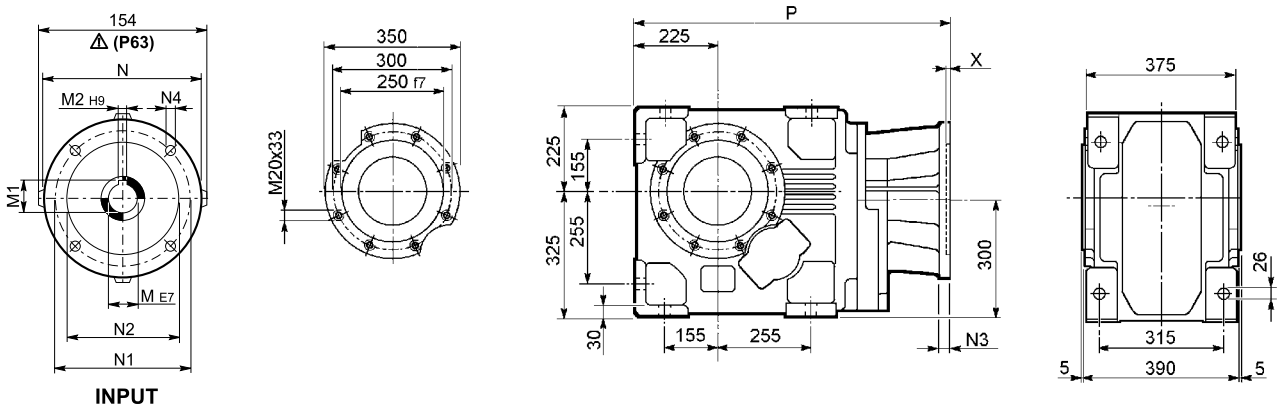
A 80...US



A 80...F...



A 90...P (IEC)

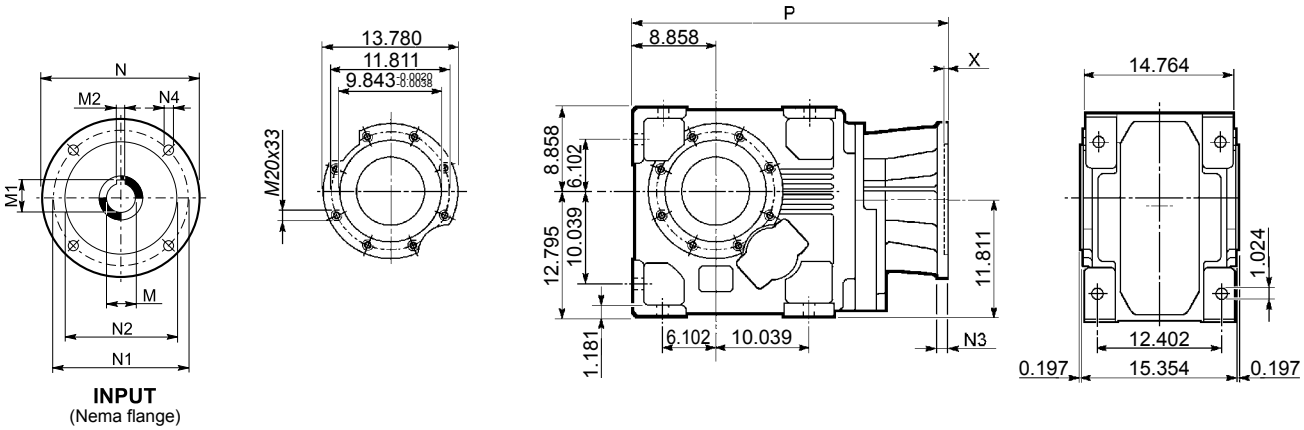


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
A 90 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	723	400
A 90 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	723	400
A 90 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	**P132**	38	41.3	10	300	265	230	16	14	5	769.5	409
A 90 3	**P160**	42	45.3	12	350	300	250	23	18	6	825	428
A 90 3	**P180**	48	51.8	14	350	300	250	23	18	6	825	429
A 90 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	850	436
A 90 3	**P225**	60	64.4	18	450	400	350	30	18	6	895.5	472
A 90 3	**P250**	65	69.4	18	550	500	450	30	18	6	925.5	475
A 90 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	786.5	411
A 90 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	786.5	412
A 90 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	806	413
A 90 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	806	413
A 90 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	**P132**	38	41.3	10	300	265	230	16	14	5	852.5	423
A 90 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	903	434
A 90 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	903	434

Metric output versions available also in combination with NEMA motor adaptor

A 90...N(NEMA Input)



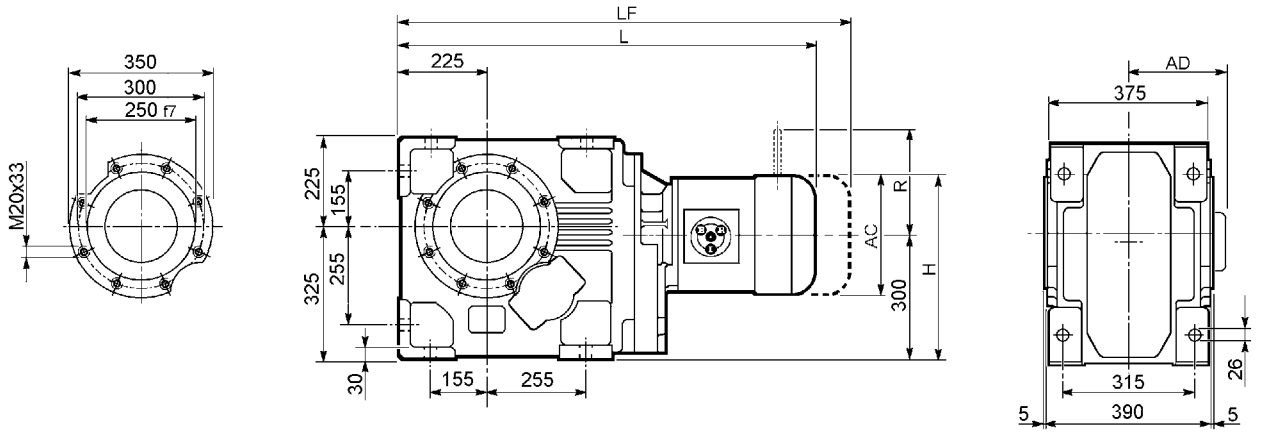
INPUT
(Nema flange)

Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 90 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	29.232	884
A 90 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	30.472	902
A 90 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	33.465	973
A 90 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	33.661	977
A 90 3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	36.516	1107
A 90 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	31.752	908
A 90 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	31.752	910
A 90 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	32.500	915
A 90 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	33.740	933
A 90 4	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	36.535	987
A 90 4	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	36.732	990

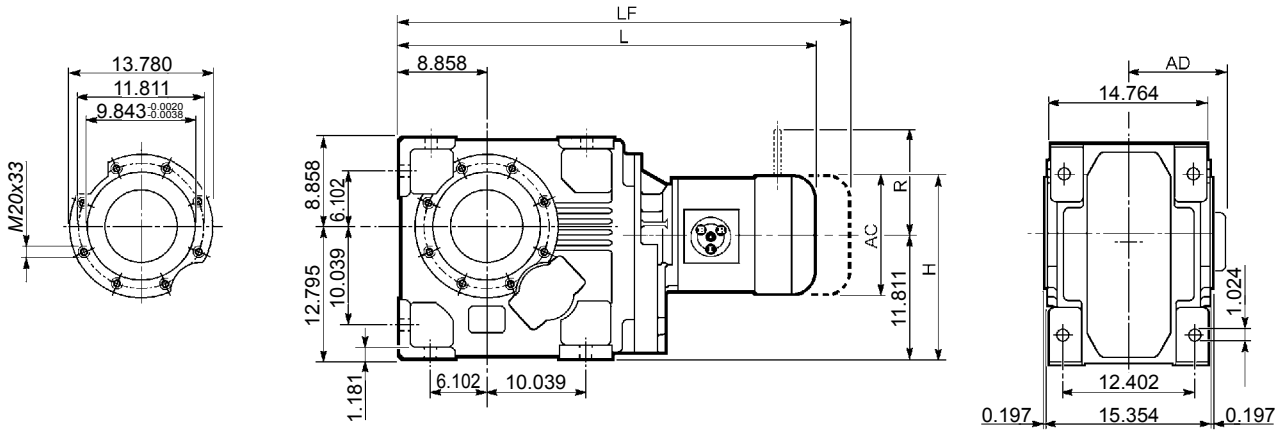
Imperial output versions available also in combination with IEC motor adaptor

A 90...M/ME/MX



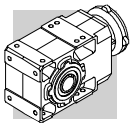
Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 90 3	**S3**	**ME3S**		195	397.5	930.5	142	414.5	1026.5	414.5	160	155	160	155
A 90 3	**S3**	**MX3S**		195	397.5	962.5	142	413.5	1055.5	419.5	160	155	160	155
A 90 3	**S3**	**ME3L**		195	397.5	962.5	142	420	1053.5	421	160	155	160	155
A 90 3	**S3**	**MX3L**		195	397.5	1006.5	142	426	1097.5	428.5	160	155	160	155
A 90 3	**S4**	**ME4**	**MX4**	258	429	1070.5	193	454	1170.5	440.5	204	210	200	210
A 90 3	**S4**	**ME4LB**	**MX4LA**	258	429	1105.5	193	462	1195.5	472.5	226	210	217	210
A 90 3	**S5**	**ME5S**	**MX5S**	310	455	1157	245	482	1258.5	532.5	266	245	247	245
A 90 3	**S5**	**ME5L**	**MX5L**	310	455	1201	245	498	1302.5	543.5	226	245	247	245
A 90 4	**S1**	**M1**		138	369	941.5	108	412	1002.5	414,7	103	135	124	108
A 90 4	**S1**	**ME1**		138	369	941.5	108	412	1002.5	414.7	103	135	124	135
A 90 4	**S2**	**ME2S**		156	378	970.5	119	422	1055.5	417.8	129	143	134	143
A 90 4	**S2**	**MX2S**		156	378	1014.5	119	427.1	1101.5	425	129	143	134	143
A 90 4	**S3**	**ME3S**		195	397.5	1013.5	142	428.5	1109.5	427.1	160	155	160	155
A 90 4	**S3**	**MX3S**		195	397.5	1045.5	142	431.5	1138.5	432.1	160	155	160	155
A 90 4	**S3**	**ME3L**		195	397.5	1045.5	142	434	1136.5	433.6	160	155	160	155
A 90 4	**S3**	**MX3L**		195	397.5	1089.5	142	440	1180.5	441.1	160	155	160	155
A 90 4	**S4**	**ME4**	**MX4**	258	429	1153.5	193	468	1253.5	453.1	204	210	200	210
A 90 4	**S4**	**ME4LB**	**MX4LA**	258	429	1188.5	193	476	1278.5	485.1	226	210	217	210

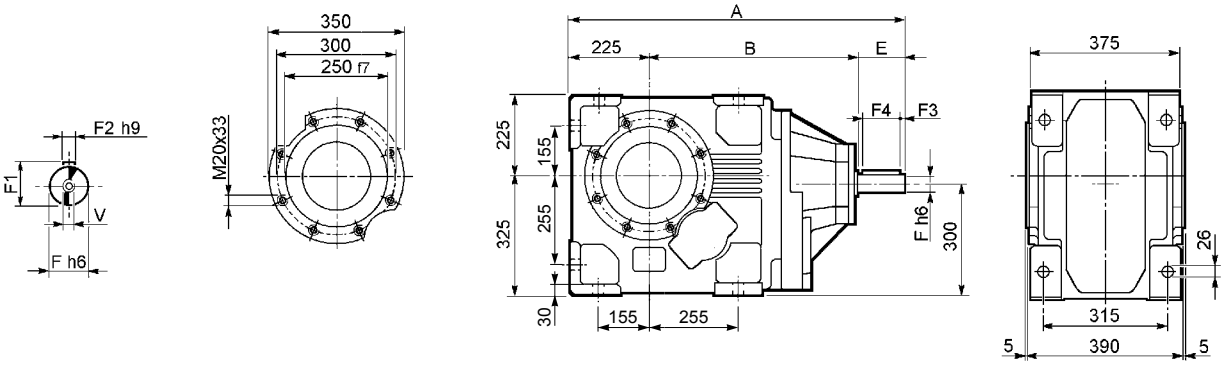


Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 90 3	**S3**	**ME3S**		7.677	15.650	36.634	5.591	914	—	—	—	—	—	—
A 90 3	**S3**	**MX3S**		7.677	15.650	37.894	5.591	912	—	—	—	—	—	—
A 90 3	**S3**	**ME3L**		7.677	15.650	37.894	5.591	926	—	—	—	—	—	—
A 90 3	**S3**	**MX3L**		7.677	15.650	39.626	5.591	939	—	—	—	—	—	—
A 90 3	**S4**	**ME4**	**MX4**	10.157	16.890	42.146	7.598	1001	—	—	—	—	—	—
A 90 3	**S4**	**ME4LB**	**MX4LA**	10.157	16.890	43.524	7.598	1019	—	—	—	—	—	—
A 90 3	**S5**	**ME5S**	**MX5S**	12.205	17.913	45.551	9.646	1063	—	—	—	—	—	—
A 90 3	**S5**	**ME5L**	**MX5L**	12.205	17.913	47.283	9.646	1098	—	—	—	—	—	—
A 90 4	**S1**	**M1**		5.433	14.528	37.067	4.252	908	39.469	549	4.055	5.315	4.882	4.252
A 90 4	**S2**	**M2S**		6.142	14.882	38.209	4.685	930	40.965	939	5.079	5.748	5.276	4.685
A 90 4	**S2**	**ME2S**		6.142	14.882	38.209	4.685	930	—	—	—	—	—	—
A 90 4	**S2**	**MX2S**		6.142	14.882	39.941	4.685	942	—	—	—	—	—	—
A 90 4	**S3**	**ME3S**		7.677	15.650	39.902	5.591	945	—	—	—	—	—	—
A 90 4	**S3**	**MX3S**		7.677	15.650	41.161	5.591	951	—	—	—	—	—	—
A 90 4	**S3**	**ME3L**		7.677	15.650	41.161	5.591	957	—	—	—	—	—	—
A 90 4	**S3**	**MX3L**		7.677	15.650	42.894	5.591	970	—	—	—	—	—	—
A 90 4	**S4**	**ME4**	**MX4**	10.157	16.890	45.413	7.598	1032	—	—	—	—	—	—
A 90 4	**S4**	**ME4LB**	**MX4LA**	10.157	16.890	46.791	7.598	1049	—	—	—	—	—	—



A 90...HS

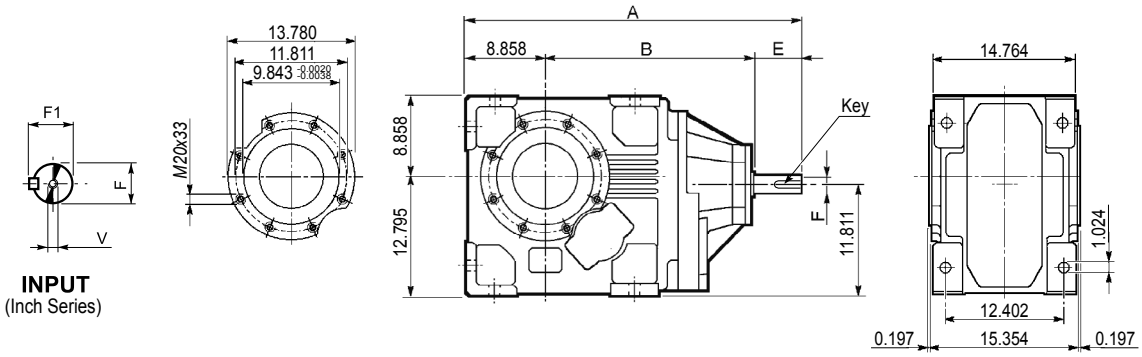


Dimensions are in mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 90 3	**HS**	1009	644	140	60	64	18	10	120	M16x36	465
A 90 4		875.5	600.5	50	24	27	8	2.5	45	M8x19	415

Metric output versions available also in combination with NHS input

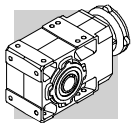
A 90...NHS



Dimensions are in Inch except when shown in *italic [mm]*

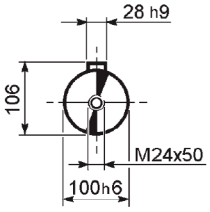
		A	B	E	F	F1	V	Key	lbs
A 90 3	**NHS**	39.213	25.354	5	2.125 $^{+0}_{-0.0006}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	1025
A 90 4	**NHS**	34.469	23.642	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	915

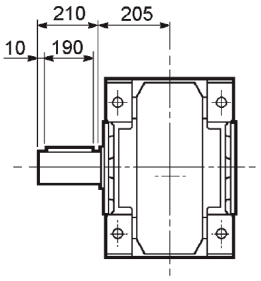
Imperial output versions available also in combination with HS input



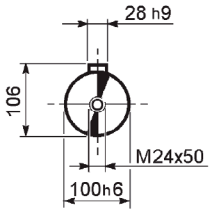
A 90

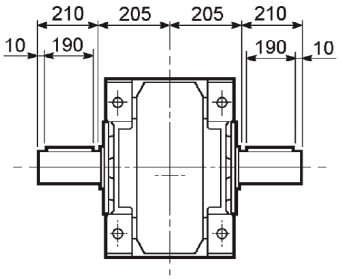
A 90...UR



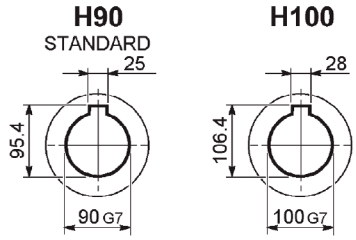


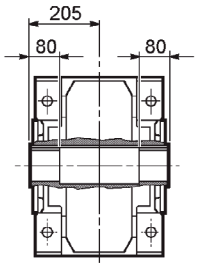
A 90...UD



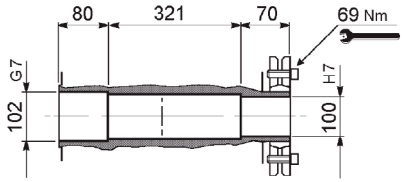


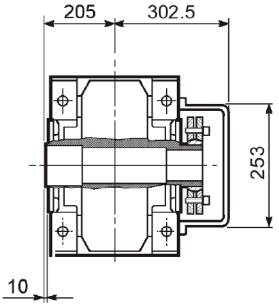
A 90...UH



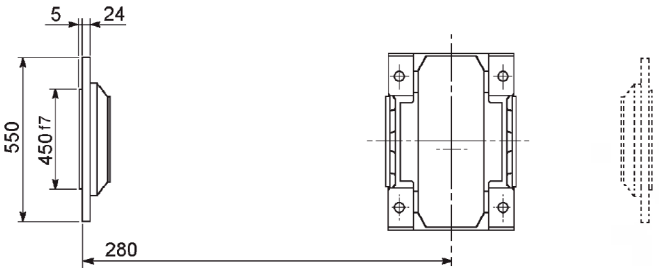


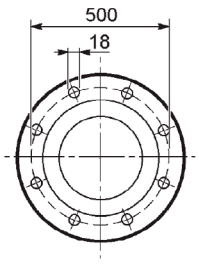
A 90...US





A 90...F...

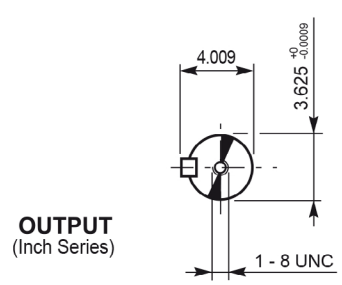


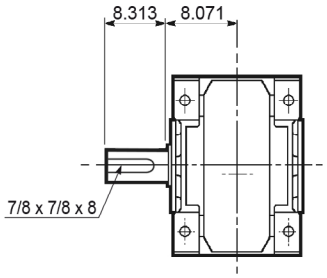


A

A 90...NUR

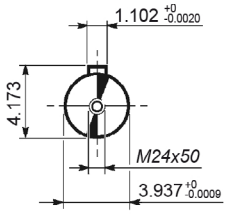
OUTPUT
(Inch Series)

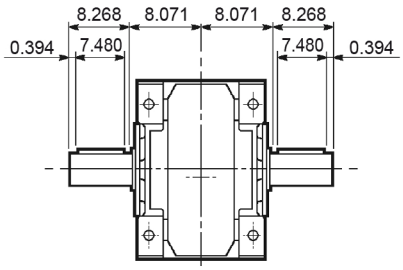




A 90...UD

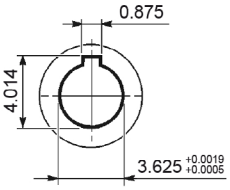
OUTPUT

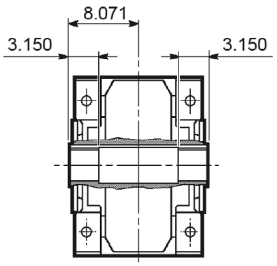




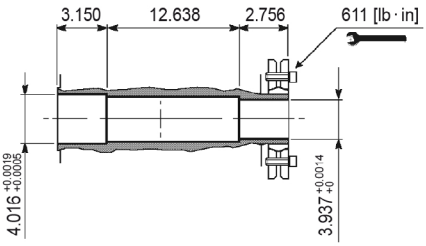
A 90...NUH

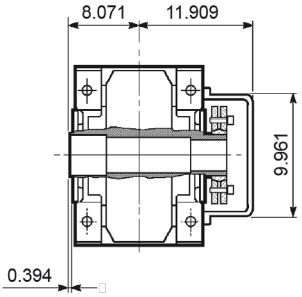
OUTPUT
(Inch Series)



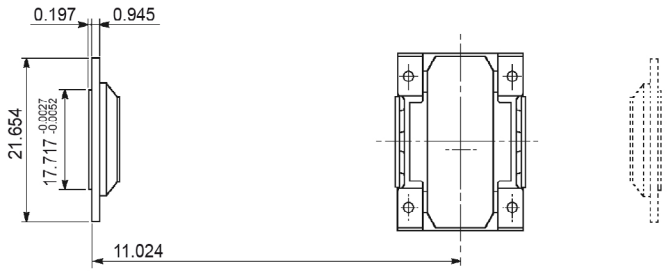


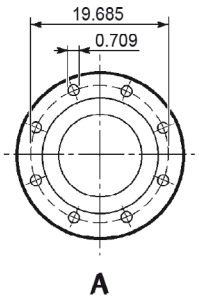
A 90...US

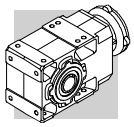




A 90...F...

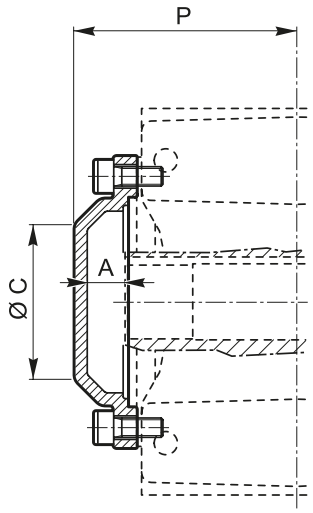






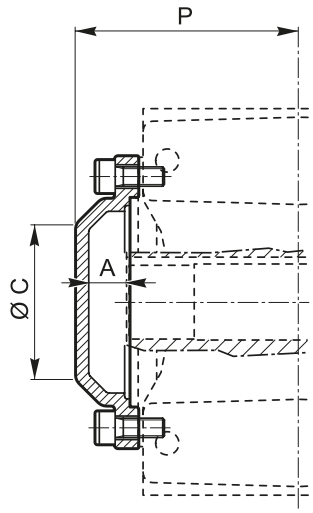
44 ACCESSORIES

44.1 Safety cover



Dimensions are in mm

	A	Ø C	P
A 05	17.5	36	73.5
A 10	20.5	60	84.5
A 20	20	75	94
A 30	20	75	104
A 35	19.5	80	114
A 41	21	110	120
A 50	26	100	148.5
A 55	27	100	149
A 60	25	100	158
A 70	33.5	120	193.5
A 80	38	140	228
A 90	43	152	258

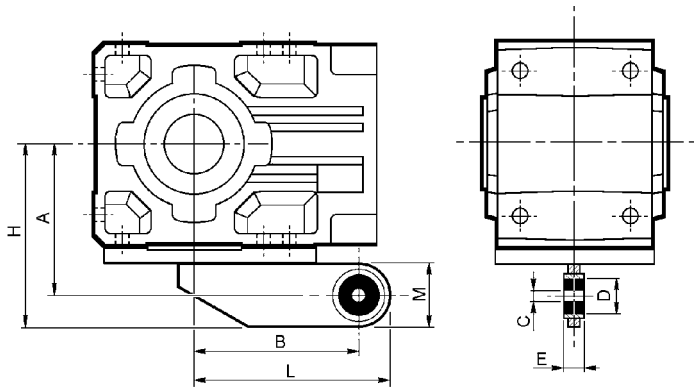


Dimensions are in Inch except when shown in *italic [mm]*

	A	Ø C	P
A 05	0.689	1.417	2.894
A 10	0.807	2.362	3.327
A 20	0.787	2.953	3.701
A 30	0.787	2.953	4.094
A 35	0.768	3.150	4.488
A 41	0.827	4.331	4.724
A 50	1.024	3.937	5.846
A 55	1.063	3.937	5.866
A 60	0.984	3.937	6.220
A 70	1.319	4.724	7.618
A 80	1.496	5.512	8.976
A 90	1.693	5.984	10.157

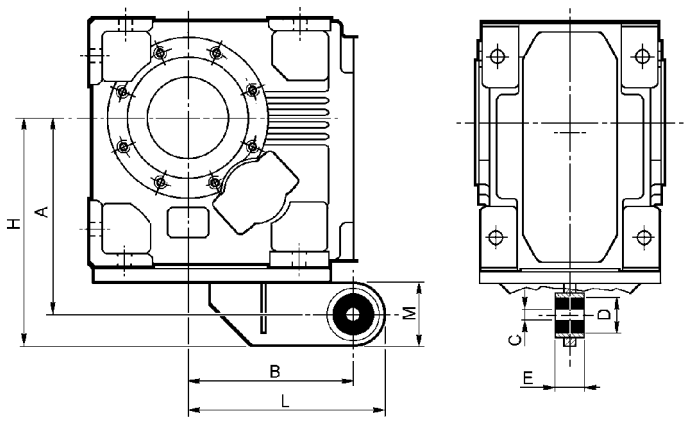
44.2 Torque arm

Torque arm comes complete with fastening bolts.



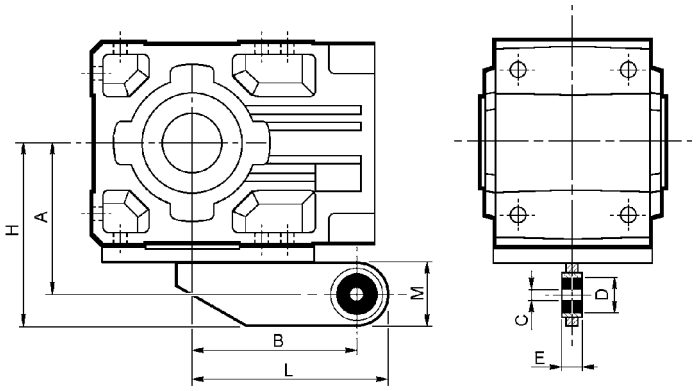
Dimensions are in mm

	A	B	C	D	E	H	L	M
A 05	90.5	80	10	30	20	115.5	105	50
A 10	108	118	10	30	20	138	148	60
A 20	118	137	10	30	20	148	167	60
A 30	135	150	20	40	25	170	185	70
A 35	145	165	20	40	25	180	200	70
A 41	157	200	20	40	25	192	235	70
A 50	200	250	32	56	40	245	295	90
A 55	200	250	32	56	40	245	295	90
A 60	225	300	32	56	40	270	345	90



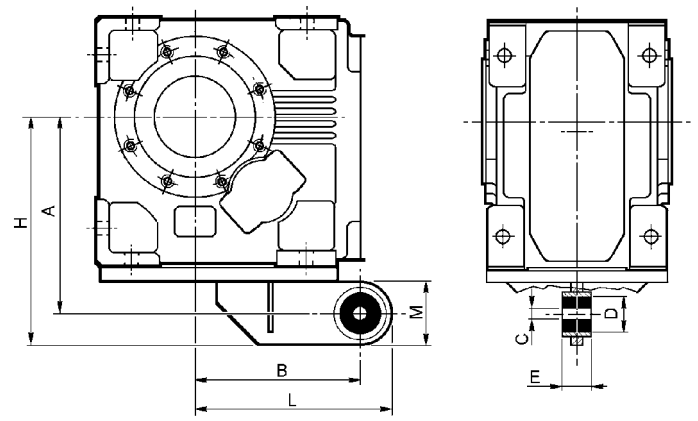
Dimensions are in mm

	A	B	C	D	E	H	L	M
A 70	289	250	32	56	40	334	295	90
A 80	357	300	42	78	60	422	365	130
A 90	410	350	42	78	60	475	415	130



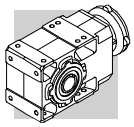
Dimensions are in Inch except when shown in *italic [mm]*

	A	B	C	D	E	H	L	M
A 05	3.563	3.150	0.394	1.181	0.787	4.547	4.134	1.969
A 10	4.252	4.646	0.394	1.181	0.787	5.433	5.827	2.362
A 20	4.646	5.394	0.394	1.181	0.787	5.827	6.575	2.362
A 30	5.315	5.906	0.787	1.575	0.984	6.693	7.283	2.756
A 35	5.709	6.496	0.787	1.575	0.984	7.087	7.874	2.756
A 41	6.181	7.874	0.787	1.575	0.984	7.559	9.252	2.756
A 50	7.874	9.843	1.260	2.205	1.575	9.646	11.614	3.543
A 55	7.874	9.843	1.260	2.205	1.575	9.646	11.614	3.543
A 60	8.858	11.811	1.260	2.205	1.575	10.630	13.583	3.543



Dimensions are in Inch except when shown in *italic [mm]*

	A	B	C	D	E	H	L	M
A 70	11.378	9.843	1.260	2.205	1.575	13.150	11.614	3.543
A 80	14.055	11.811	1.654	3.071	2.362	16.614	14.370	5.118
A 90	16.142	13.780	1.654	3.071	2.362	18.701	16.339	5.118

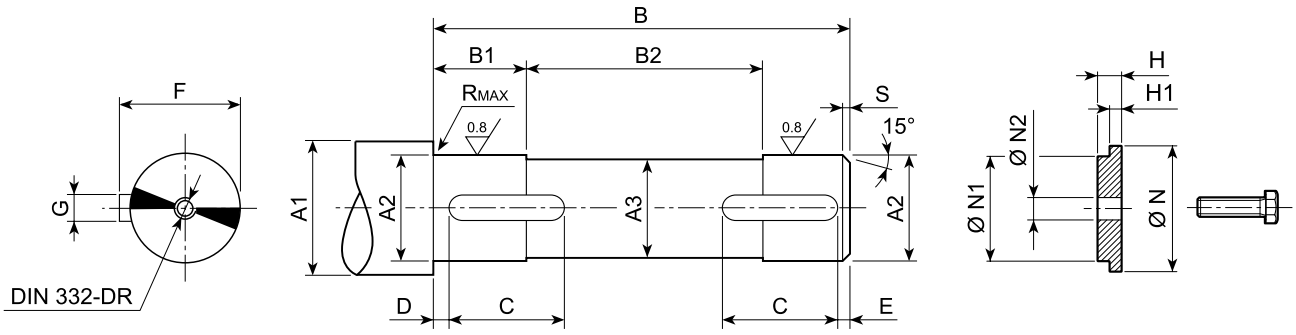


45 CUSTOMER' SHAFT

Make the driven shaft to be coupled to the gear unit's output shaft from a good quality steel, respecting the dimensions given in the table.

A device such as that illustrated below should also be installed to secure the shaft axially. Take care to verify and dimension the various components to suit the needs of the application.

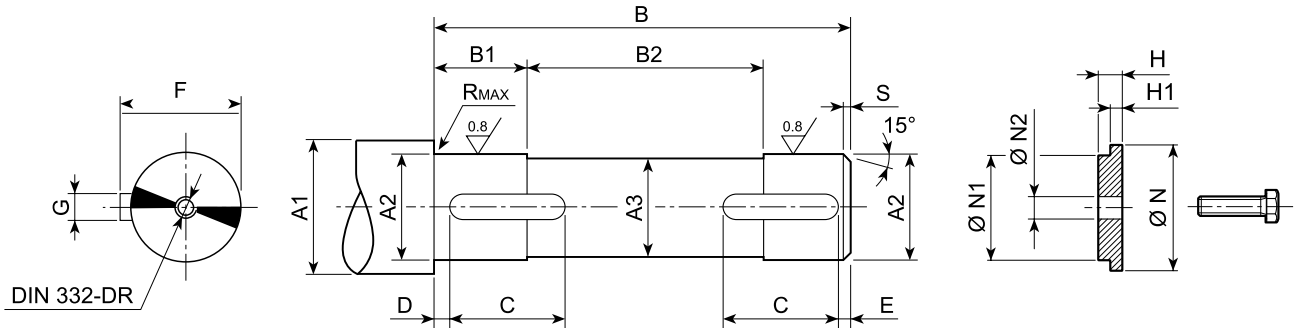
UH_



Dimensions are in mm

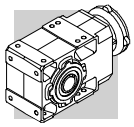
	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	UNI 6604	N	N1	N2	H	H1	UNI 5739
A05 UH25	≥ 30	25 h7	24	102	21	62	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	35	25 d9	9	7	5.5	M8x25
A10 UH30	≥ 35	30 h7	29	118	16	87	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	35	30 d9	11	8.5	7	M10x30
A10 UH25	≥ 30	25 h7	24	118	16	87	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	30÷35	25 d9	9	7	5.5	M8x25
A20 UH35	≥ 42	35 h7	34	138	20	98	20	2	2	38	10 h9	0.5	1.5	10x8x20 A	42	35 d9	11	8.5	7	M10x30
A20 UH30	≥ 35	30 h7	29	138	20	98	25	2	2	33	8 h9	0.5	1.5	8x7x25 A	35÷42	30 d9	11	8.5	7	M10x30
A30 UH40	≥ 47	40 h7	39	158	23	112	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	47	40 d9	14	8.5	7	M12x35
A30 UH35	≥ 42	35 h7	34	158	23	112	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	42÷47	35 d9	11	8.5	7	M10x30
A35 UH40	≥ 47	40 h7	39	175	33	109	40	2	2	43	12 h9	1	1.5	12x8x40 A	47	40 d9	14	8.5	7	M12x35
A35 UH35	≥ 42	35 h7	34	175	33	109	40	2	2	38	10 h9	1	1.5	10x8x40 A	42÷47	35 d9	11	8.5	7	M10x30
A41 UH45	≥ 52	45 h7	44	184	28	128	45	2.5	2.5	48.5	14 h9	1	2	14x9x45 A	52	45 d9	14	8.5	7	M12x35
A41 UH40	≥ 47	40 h7	39	184	28	128	50	2.5	2.5	43	12 h9	1	2	12x8x50 A	47÷52	40 d9	14	8.5	7	M12x35
A50 UH55	≥ 63	55 h7	54	226	37.5	151	55	2.5	2.5	59	16 h9	1	2	16x10x55 A	63	55 d9	22	10	8	M20x50
A50 UH50	≥ 57	50 h7	49	226	37.5	151	65	2.5	2.5	53.5	14 h9	1	2	14x9x65 A	57÷63	50 d9	18	10	8	M16x45
A55 UH60	≥ 70	60 h7	59	226	37.5	151	65	2.5	2.5	64	18 h9	2	2	18x11x65 A	70	60 d9	22	10	8	M20x50
A55 UH50	≥ 60	50 h7	49	226	37.5	151	75	2.5	2.5	53.5	14 h9	2	2	14x9x75 A	60÷70	50 d9	18	10	8	M16x45
A60 UH70	≥ 78	70 h7	69	248	48	152	70	2.5	2.5	74.5	20 h9	2.5	2	20x12x70 A	78	70 d9	22	10	8.5	M20x50
A60 UH60	≥ 68	60 h7	59	248	48	152	80	2.5	2.5	64	18 h9	2.5	2	18x11x80 A	68÷78	60 d9	22	10	8.5	M20x50
A70 UH80	v89	80 h7	79	303	58	187	90	3	3	85	22 h9	2.5	2.5	22x14x90 A	89	80 d9	22	10	8.5	M20x50
A70 UH70	≥ 78	70 h7	69	303	58	187	110	3	3	74.5	20 h9	2.5	2.5	20x12x110 A	78÷89	70 d9	22	10	8.5	M20x50
A80 UH90	≥ 99	90 h7	89	358	78	202	120	3	3	95	25 h9	2.5	2.5	25x14x120 A	99	90 d9	26	22	20.5	M24x70
A80 UH80	≥ 89	80 h7	79	358	78	202	130	3	3	85	22 h9	2.5	2.5	22x14x130 A	89÷99	80 d9	22	10	8.5	M20x50
A90 UH100	≥ 111	100 h7	99	408	78	252	160	3	3	106	28 h9	2.5	2.5	28x16x160 A	111	100 d9	26	22	20.5	M24x70
A90 UH90	≥ 99	90 h7	89	408	78	252	190	3	3	95	25 h9	2.5	2.5	25x14x190 A	99÷111	90 d9	26	22	20.5	M24x70

NUH_

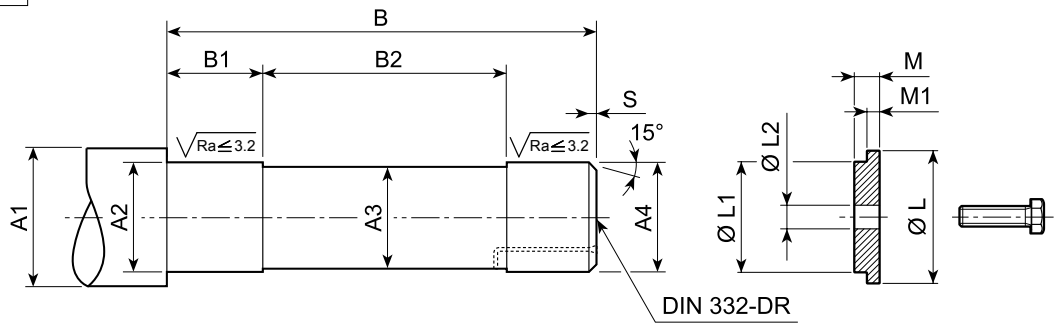


Dimensions are in Inch except when shown in *italic [mm]*

	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	Key	N	N1	N2	H	H1	UNI 5739
A05	≥ 1.20	1.000 $^{+0}_{-0.0008}$	0.961	4.016	0.827	2.441	0.875	0.079	0.079	1.109	0.250 $^{+0}_{-0.0014}$	0.020	0.059	1/4 x 1/4 x 7/8	1.378	1.000 $^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
A10	≥ 1.20	1.000 $^{+0}_{-0.0008}$	0.961	4.646	0.630	3.425	0.875	0.079	0.079	1.109	0.250 $^{+0}_{-0.0014}$	0.020	0.059	1/4 x 1/4 x 7/8	1.201 ÷ 1.378	1.000 $^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
A20	≥ 1.46	1.250 $^{+0}_{-0.0010}$	1.211	5.433	0.787	3.858	1.000	0.079	0.079	1.362	0.250 $^{+0}_{-0.0014}$	0.020	0.059	1/4 x 1/4 x 1	1.457 ÷ 1.654	1.250 $^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
A30	≥ 1.65	1.375 $^{+0}_{-0.0010}$	1.336	6.220	0.906	4.409	1.250	0.079	0.079	1.513	0.313 $^{+0}_{-0.0014}$	0.020	0.059	5/16 x 5/16 x 1 1/4	1.654 ÷ 1.850	1.375 $^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
A35	≥ 1.77	1.500 $^{+0}_{-0.0010}$	1.461	6.890	1.299	4.291	2.000	0.079	0.079	1.664	0.375 $^{+0}_{-0.0014}$	0.039	0.059	3/8 x 3/8 x 2	1.772 ÷ 1.850	1.500 $^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
A41	≥ 1.91	1.625 $^{+0}_{-0.0010}$	1.586	7.244	1.102	5.039	2.000	0.098	0.098	1.791	0.375 $^{+0}_{-0.0014}$	0.039	0.079	3/8 x 3/8 x 2	1.909 ÷ 2.047	1.625 $^{-0.0031}_{-0.0056}$	0.551	0.335	0.276	*M12x35*
A50	≥ 2.28	2.000 $^{+0}_{-0.0012}$	1.961	8.898	1.476	5.945	2.500	0.098	0.098	2.218	0.500 $^{+0}_{-0.0017}$	0.039	0.079	1/2 x 1/2 x 2 1/2	2.283 ÷ 2.480	2.000 $^{-0.0039}_{-0.0069}$	0.709	0.394	0.315	*M16x45*
A55	≥ 2.56	2.188 $^{+0}_{-0.0012}$	2.148	8.898	1.476	5.945	2.500	0.098	0.098	2.409	0.500 $^{+0}_{-0.0017}$	0.079	0.079	1/2 x 1/2 x 2 1/2	2.559 ÷ 2.756	2.188 $^{-0.0039}_{-0.0069}$	0.709	0.394	0.315	*M16x45*
A60	≥ 2.95	2.625 $^{+0}_{-0.0012}$	2.586	9.764	1.890	5.984	3.000	0.098	0.098	2.900	0.625 $^{+0}_{-0.0017}$	0.098	0.079	5/8 x 5/8 x 3	2.953 ÷ 3.071	2.625 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A70	≥ 3.07	2.750 $^{+0}_{-0.0012}$	2.711	11.929	2.283	7.362	3.000	0.118	0.118	3.027	0.625 $^{+0}_{-0.0017}$	0.098	0.098	5/8 x 5/8 x 3	3.071 ÷ 3.504	2.750 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A80	≥ 3.60	3.250 $^{+0}_{-0.0014}$	3.211	14.094	3.071	7.953	4.156	0.118	0.118	3.581	0.750 $^{+0}_{-0.0020}$	0.098	0.098	3/4 x 3/4 x 4 5/32	3.602 ÷ 3.898	3.250 $^{-0.0047}_{-0.0081}$	0.866	0.394	0.335	*M20x50*
A90	≥ 3.98	3.625 $^{+0}_{-0.0014}$	3.586	16.063	3.071	9.921	5.500	0.118	0.118	4.009	0.875 $^{+0}_{-0.0020}$	0.098	0.098	7/8 x 7/8 x 5 1/2	3.976 ÷ 4.370	3.625 $^{-0.0047}_{-0.0081}$	1.024	0.866	0.807	*M24x70*



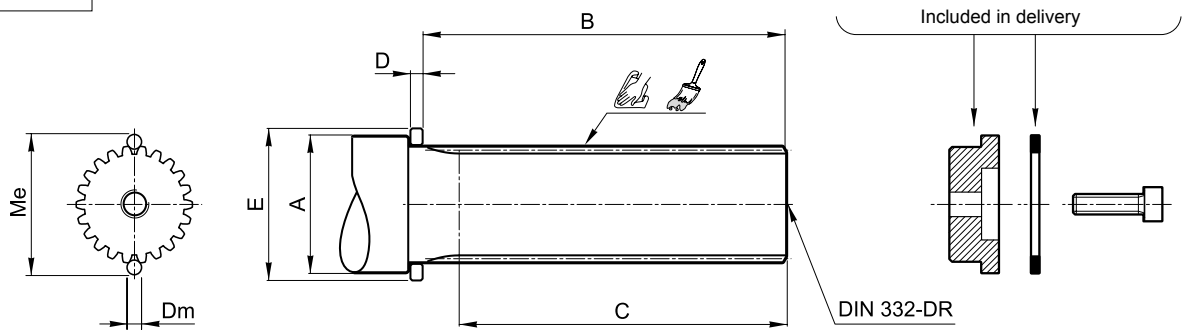
US



Dimensions are in mm

	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
A 05	≥ 35	27 h7	24	25 h6	129.5	32	63.5	0.5	1.5	29.5	25 d9	11	8.5	7	M10x30
A 10	≥ 42	32 h7	29	30 h6	147.5	34	77.5	0.5	1.5	35.5	30 d9	11	8.5	7	M10x30
A 20	≥ 48	37 h7	34	35 h6	170	40	89	0.5	1.5	43	35 d9	14	8.5	7	M12x35
A 30	≥ 54	42 h7	39	40 h6	191.5	48	95.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 35	≥ 54	42 h7	39	40 h6	208.5	48	112.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 41	≥ 60	47 h7	44	45 h6	222	53	117	1	2	54	45 d9	18	10	8.5	M16x45
A 50	≥ 72	57 h7	54	55 g6	264	46	156	1	2	72	55 d9	22	10	8.5	M20x50
A 55	≥ 72	62 h7	59	60 g6	266	46	158	2.5	2	72	60 d9	22	10	8.5	M20x50
A 60	≥ 90	72 h7	69	70 g6	293	48	178	2.5	2.5	85	70 d9	22	10	8.5	M20x50
A 70	≥ 104	82 h7	79	80 g6	352.5	90	172.5	2.5	2.5	95	80 d9	22	10	8.5	M20x50
A 80	≥ 114	92 h7	89	90 g6	416	100	216	2.5	2.5	105	90 d9	26	22	20.5	M24x70
A 90	≥ 126	102 h7	99	100 g6	469	78	321	2.5	2.5	120	100 d9	26	22	20.5	M24x70

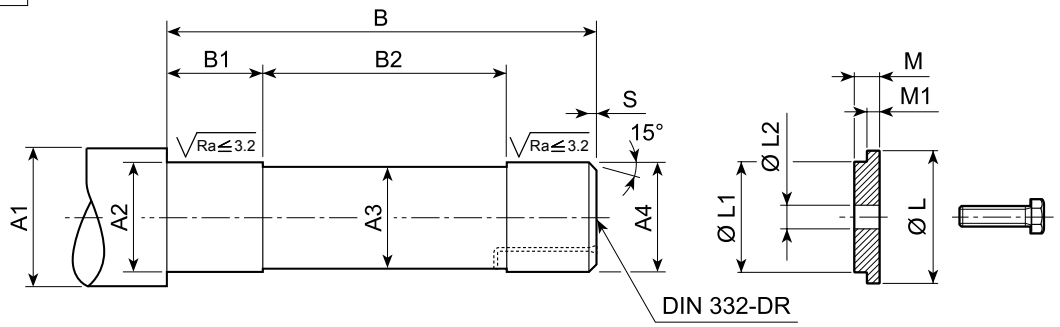
UV



Dimensions are in mm

	DIN 5480	Me	Dm	A	B	C	D	E	ISO 4762
A 20	30x1.25x22	33.04 +0/-0.04	2.75	≥ 40	111.5	≥ 95	7	45	M10x35
A 30	35x2x16	38.93 +0/-0.04	4	≥ 45	130.5	≥ 112	7	50	M12x40
A 35	35x2x16	38.93 +0/-0.04	4	≥ 45	147.5	≥ 129	7	50	M12x40
A 41	45x2x21	48.86 +0/-0.04	4	≥ 55	155.5	≥ 136	7	60	M16x45
A 50	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 55	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 60	65x2x31	68.97 +0 /-0.05	4	≥ 75	213.5	≥ 191	7	80	M20x55

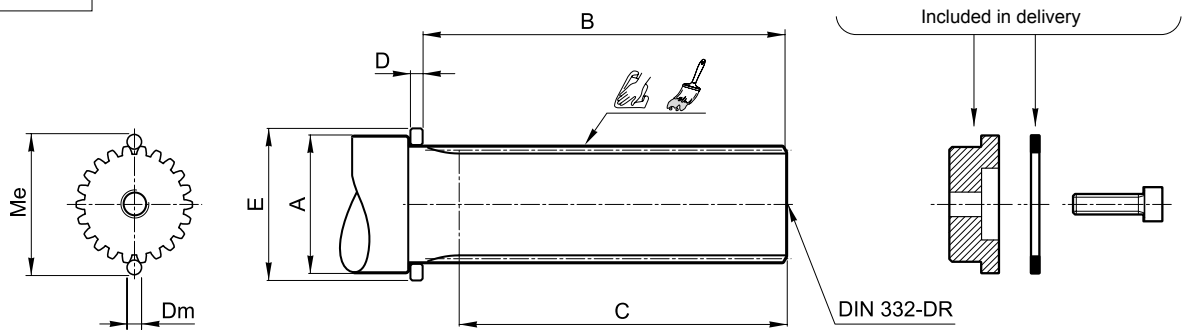
US



Dimensions are in Inch except when shown in *italic [mm]*

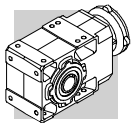
	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
A 05	≥ 1.378	1.063 $^{+0}_{-0.0008}$	0.945	0.984 $^{+0}_{-0.0005}$	5.098	1.260	2.500	0.020	0.059	1.161	0.984 $^{-0.0026}_{-0.0046}$	0.433	0.335	0.276	*M10x30*
A 10	≥ 1.654	1.260 $^{+0}_{-0.0010}$	1.142	1.181 $^{+0}_{-0.0005}$	5.807	1.339	3.051	0.020	0.059	1.398	1.181 $^{-0.0026}_{-0.0046}$	0.433	0.335	0.276	*M10x30*
A 20	≥ 1.890	1.457 $^{+0}_{-0.0010}$	1.339	1.378 $^{+0}_{-0.0006}$	6.693	1.575	3.504	0.020	0.059	1.693	1.378 $^{-0.0031}_{-0.0056}$	0.551	0.335	0.276	*M12x35*
A 30	≥ 2.126	1.654 $^{+0}_{-0.0010}$	1.535	1.575 $^{+0}_{-0.0006}$	7.539	1.890	3.760	0.020	0.059	1.929	1.575 $^{-0.0031}_{-0.0056}$	0.709	0.394	0.335	*M16x45*
A 35	≥ 2.126	1.654 $^{+0}_{-0.0010}$	1.535	1.575 $^{+0}_{-0.0006}$	8.209	1.890	4.429	0.020	0.059	1.929	1.575 $^{-0.0031}_{-0.0056}$	0.709	0.394	0.335	*M16x45*
A 41	≥ 2.362	1.850 $^{+0}_{-0.0010}$	1.732	1.772 $^{+0}_{-0.0006}$	8.740	2.087	4.606	0.039	0.079	2.126	1.772 $^{-0.0031}_{-0.0056}$	0.709	0.394	0.335	*M16x45*
A 50	≥ 2.835	2.244 $^{+0}_{-0.0012}$	2.126	2.165 $^{-0.0004}_{-0.0011}$	10.394	1.811	6.142	0.039	0.079	2.835	2.165 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 55	≥ 2.835	2.441 $^{+0}_{-0.0012}$	2.323	2.362 $^{-0.0004}_{-0.0011}$	10.472	1.811	6.220	0.098	0.079	2.835	2.362 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 60	≥ 3.543	2.835 $^{+0}_{-0.0012}$	2.717	2.756 $^{-0.0004}_{-0.0011}$	11.535	1.890	7.008	0.098	0.098	3.346	2.756 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 70	≥ 4.094	3.228 $^{+0}_{-0.0014}$	3.110	3.150 $^{-0.0004}_{-0.0011}$	13.878	3.543	6.791	0.098	0.098	3.740	3.150 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 80	≥ 4.488	3.622 $^{+0}_{-0.0014}$	3.504	3.543 $^{-0.0005}_{-0.0013}$	16.378	3.937	8.504	0.098	0.098	4.134	3.543 $^{-0.0047}_{-0.0081}$	1.024	0.866	0.807	*M24x70*
A 90	≥ 4.961	4.016 $^{+0}_{-0.0014}$	3.898	3.937 $^{-0.0005}_{-0.0013}$	18.465	3.071	12.638	0.098	0.098	4.724	3.937 $^{-0.0047}_{-0.0081}$	1.024	0.866	0.807	*M24x70*

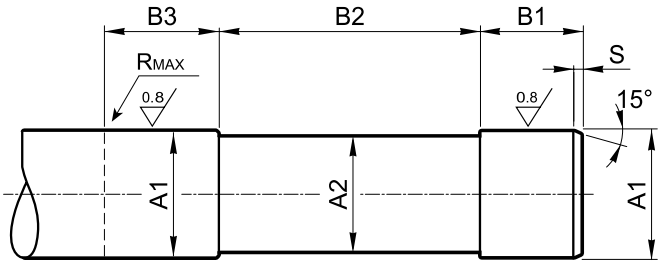
UV



Dimensions are in Inch except when shown in *italic [mm]*

	DIN 5480	Me	Dm	A	B	C	D	E	ISO 4762
A 20	*30x1.25x22*	1.301 $^{+0}_{-0.0016}$	0.108	≥ 1.575	4.390	≥ 3.740	0.276	1.772	*M10x35*
A 30	*35x2x16*	1.533 $^{+0}_{-0.0016}$	0.157	≥ 1.772	5.138	≥ 4.409	0.276	1.969	*M12x40*
A 35	*35x2x16*	1.533 $^{+0}_{-0.0016}$	0.157	≥ 1.772	5.807	≥ 5.079	0.276	1.969	*M12x40*
A 41	*45x2x21*	1.924 $^{+0}_{-0.0016}$	0.157	≥ 2.165	6.122	≥ 5.354	0.276	2.362	*M16x45*
A 50	*50x2x24*	2.131 $^{+0}_{-0.0020}$	0.157	≥ 2.362	7.717	≥ 6.890	0.276	2.559	*M16x45*
A 55	*50x2x24*	2.131 $^{+0}_{-0.0020}$	0.157	≥ 2.362	7.717	≥ 6.890	0.276	2.559	*M16x45*
A 60	*65x2x31*	2.715 $^{+0}_{-0.0020}$	0.157	≥ 2.953	8.406	≥ 7.520	0.276	3.150	*M20x55*





QF

Dimensions are in mm

		A1	A2	B1	B2	B3	S
A 10	QF25	25 h6	24	41	95	≥ 50	1.5
	QF30	30 h6	29				
A 20	QF25	25 h6	24	41	115	≥ 50	1.5
	QF30	30 h6	29				
A 30	QF35	35 h6	34	45	130	≥ 54	1.5
	QF40	40 h6	39				
A 35	QF35	35 h6	34	45	146.5	≥ 54	1.5
	QF40	40 h6	39				
A 41	QF40	40 h6	39	47	151.5	≥ 56	2
	QF45	45 h6	44				
A 50	QF50	50 h6	49	48	197	≥ 57	2
	QF55	55 h6	54				
A 55	QF55	55 h6	54	50	190	≥ 59	2
	QF60	60 h6	59				
A 60	QF60	60 h6	59	57	203	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				

NQF

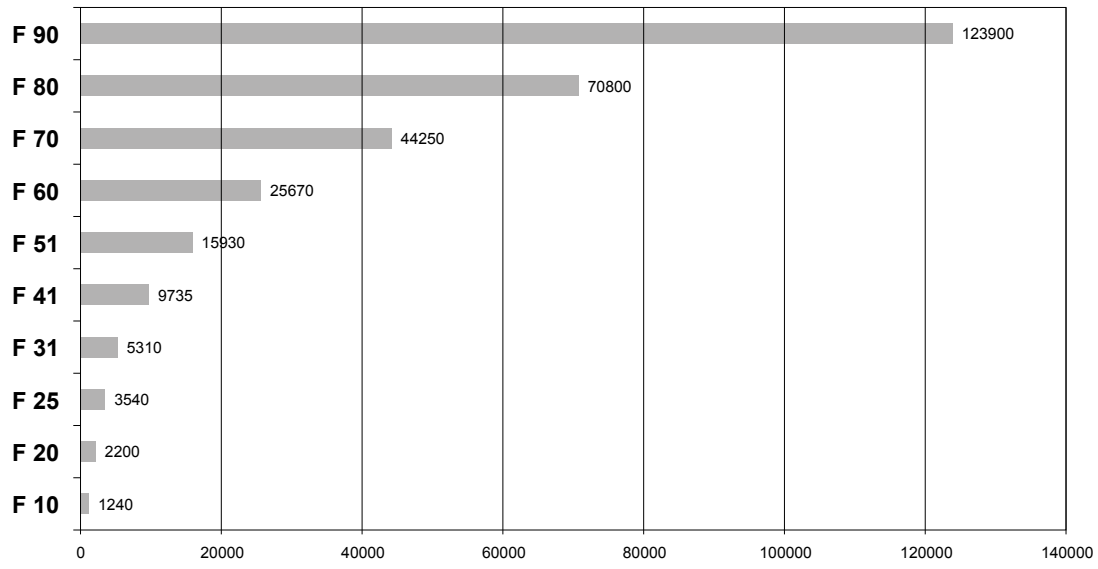
Dimensions are in Inch except when shown in *italic [mm]*

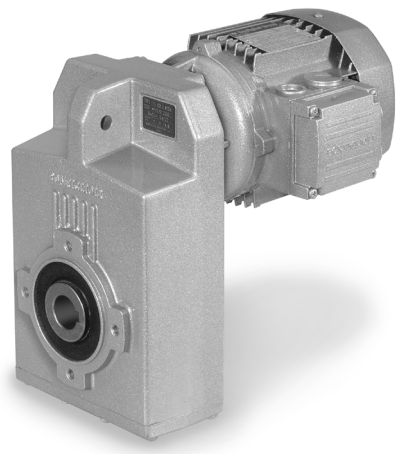
		A1	A2	B1	B2	B3	S
A 10	NQF1	1.000 $^{+0}_{-0.0005}$	0.961	1.614	3.740	≥ 1.969	0.059
	NQF1-3/16	1.1875 $^{+0}_{-0.0006}$	1.148				
A 20	NQF1	1.000 $^{+0}_{-0.0005}$	0.961	1.614	4.528	≥ 1.969	0.059
	NQF1-3/16	1.1875 $^{+0}_{-0.0006}$	1.148				
A 30	NQF1-3/8	1.375 $^{+0}_{-0.0006}$	1.336	1.772	5.118	≥ 2.126	0.059
	NQF1-7/16	1.4375 $^{+0}_{-0.0006}$	1.398				
A 35	NQF1-3/8	1.375 $^{+0}_{-0.0006}$	1.336	1.772	5.768	≥ 2.126	0.059
	NQF1-7/16	1.4375 $^{+0}_{-0.0006}$	1.398				
A 41	NQF1-1/2	1.500 $^{+0}_{-0.0006}$	1.461	1.850	5.965	≥ 2.205	0.079
	NQF1-5/8	1.625 $^{+0}_{-0.0006}$	1.586				
A 50	NQF1-15/16	1.9375 $^{+0}_{-0.0006}$	1.898	1.890	7.756	≥ 2.244	0.079
	NQF2	2.000 $^{+0}_{-0.0007}$	1.961				
A 55	NQF2-3/8	2.375 $^{+0}_{-0.0007}$	2.336	1.969	7.480	≥ 2.323	0.079
A 60	NQF2-3/8	2.375 $^{+0}_{-0.0007}$	2.336	2.244	7.992	≥ 2.598	0.098
	NQF2-7/16	2.4375 $^{+0}_{-0.0007}$	2.398				
	NQF2-3/4	2.750 $^{+0}_{-0.0007}$	2.711				

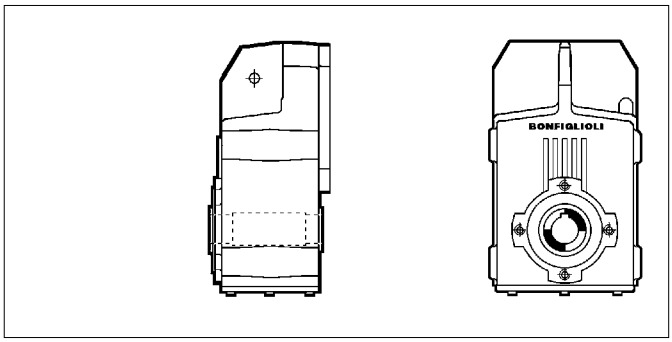
46 DESIGN FEATURES

The main design characteristics are:
- modularity
- space effectiveness
- universal mounting
- high efficiency
- quite operation
- gears in hardened and case-hardened steel
- bare aluminium housing for sizes 10, 20 and 25, high strength painted cast-iron housings for larger frame sizes.

(D 45)



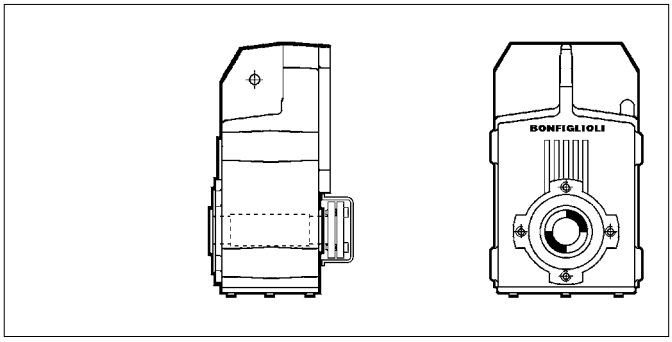




H / NH

Hollow output shaft and keyway

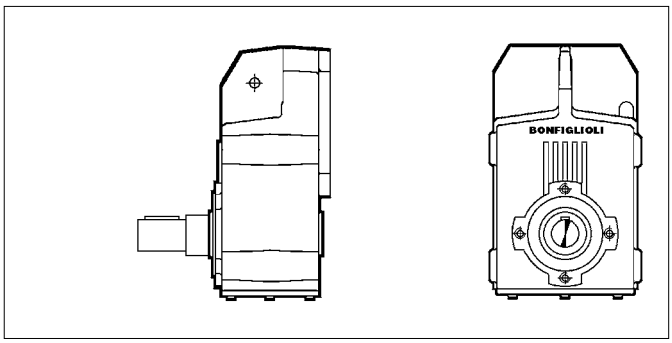
F 10 ... F 90



S

Hollow output shaft and shrink disc

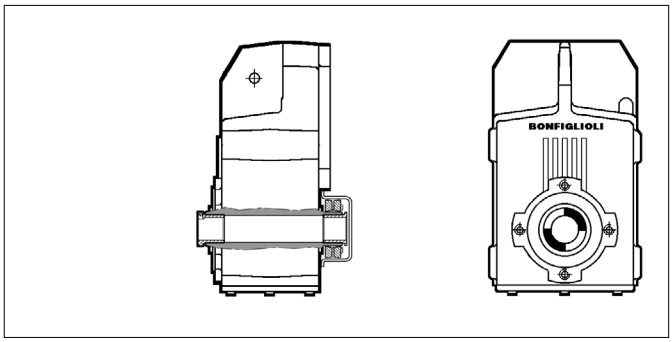
F 10 ... F 90



R / NR

Solid output shaft

F 10 ... F 90

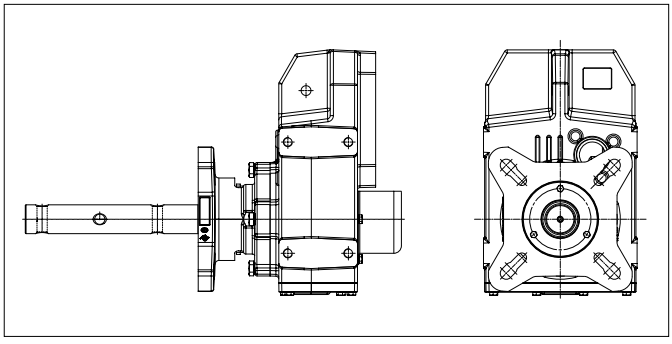


QF / NQF (Quick-fit)

Hollow shaft with adapter bushings and shrink disc

F 10 ... F 60

$T_{n2\ max}$ [lb•in]			
F 25	QF30	NQF 1-3/16	3100
F 41	QF42	NQF 1-5/8	7529
	QF45	NQF 1-3/4	8857
F 51	QF50	NQF 1-15/16 NQF 2	15500



FSC

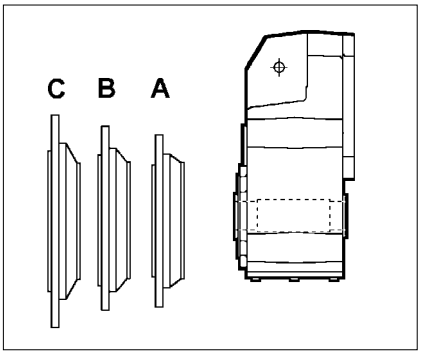
Screw conveyor

F 31 ... F 70

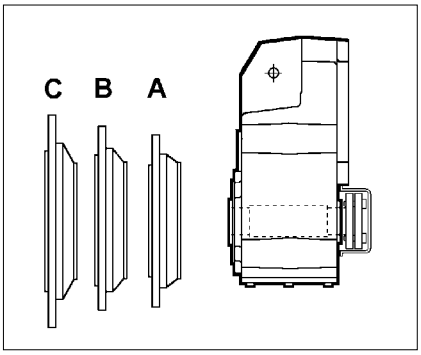
Basic versions with bolted flange

The sketches show the applicable flanges to the basic versions.

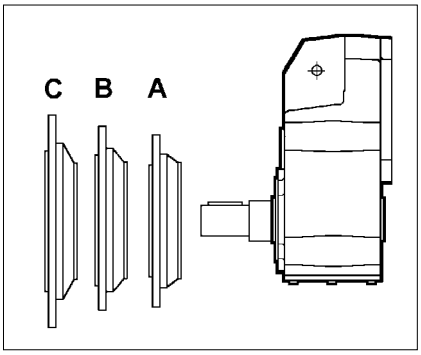
H / NH... F...



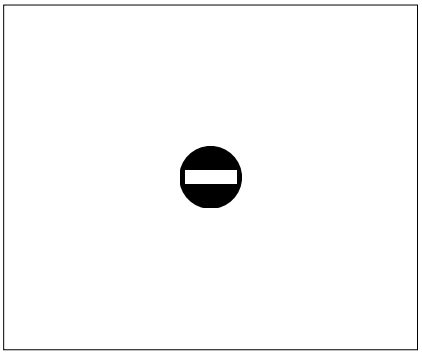
S F...



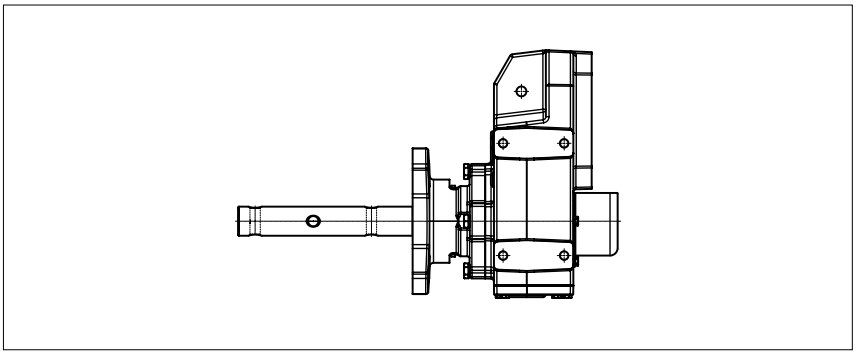
R / NR F...



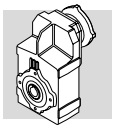
QF / NQF...



FSC...



FSC CEMA (screw conveyor)	F31	F41	F51	F60	F70
FSC 1	1-1/2	1-1/2			
FSC 2	2	2	2	2	
FSC 3	2-7/16	2-7/16	2-7/16	2-7/16	
FSC 4		3	3	3	3
FSC 5				3-7/16	3-7/16



48 DESIGNATION

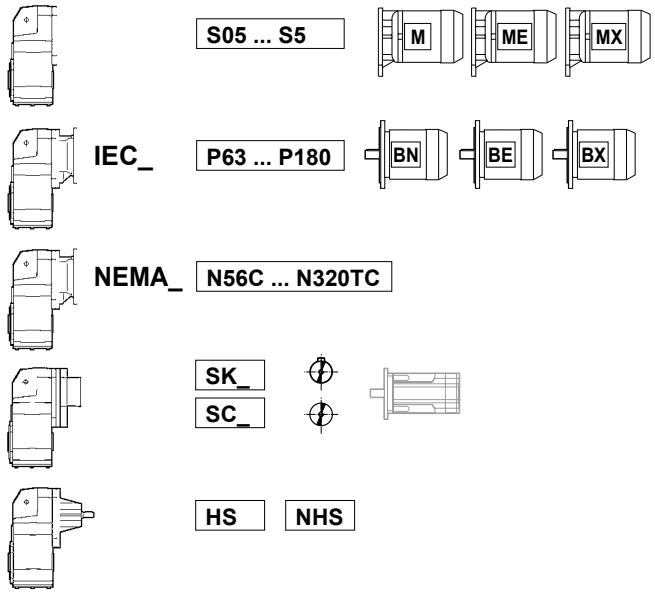
GEAR UNIT

F 10 2 NH FA 9.8 S2 H5 .....

OPTIONS

MOUNTING POSITION
H1 (Default), **H2**, **H3**, **H4**, **H5**, **H6**

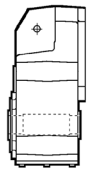
INPUT CONFIGURATION



GEAR RATIO

OUTPUT FLANGE SIZE AND POSITION (specify only if requested)
F = Flanged version
A, **B**, **C** = Flange size
FSC1, FSC2, FSC3, FSC4, FSC5 = CEMA Flange (screw conveyor)

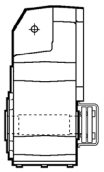
VERSION



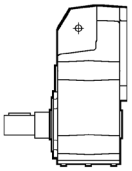
H / NH

	Standard	Alternative*
F 10	**H25**	H30
F 20	**H30**	H35
F 25	**H35**	H40
F 31	**H35**	H40
F 41	**H40**	H45
F 51	**H50**	H55
F 60	**H60**	H70
F 70	**H80**	H70
F 80	**H90**	H80
F 90	**H100**	H90

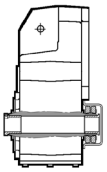
* Alternative diameters available on request



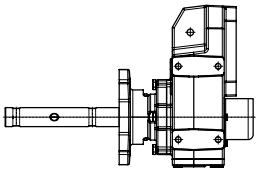
S
(F 10...F 90)



R / NR
(F 10...F 90)



QF / NQF
(F 10...F 60)

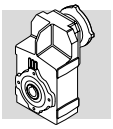


FSC
(F 31...F 70)

REDUCTIONS
2 (F 10...F 51), **3** (F 20...F 90), **4** (F 31...F 90)

GEAR FRAME SIZE
10, **20**, **25**, **31**, **41**, **51**, **60**, **70**, **80**, **90**

TYPE **F** = helical shaft-mounted gear unit



MOTOR | BRAKE

M 1LA 4 230/400-60 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPTIONS

BRAKE SUPPLY

RECTIFIER TYPE
AC/DC
NB, **SB**, **NBR**, **SBR**

BRAKE HAND RELEASE
R, **RM**

BRAKE TORQUE (specify Nm!)
[**1 ft•lb = 1.356 Nm**]

BRAKE TYPE
FD (d.c. brake)
FA (a.c. brake)

TERMINAL BOX POSITION
W (default), **N**, **E**, **S**

MOTOR MOUNTING
— (compact motor)
B5 (IEC - motor)

INSULATION CLASS
CL F standard
CL H option

DEGREE OF PROTECTION
IP55 standard (**IP56** option)
IP54, **IP55** brake motor

VOLTAGE - FREQUENCY

POLE NUMBER
2, **4**, **6**

MOTOR SIZE
0B ... 5LA (compact motor)
63A ... 280M (IEC motor)

MOTOR TYPE
MX= compact 3-phase, class IE3
BX = IEC 3-phase, class IE3
ME = compact 3-phase, class IE2
BE = IEC 3-phase, class IE2
M = compact 3-phase
BN = IEC 3-phase

NEMA motors to be specified thru their ordering numbers

48.1 Gearbox options

AL, AR

A backstop device on the motor itself, as described in the electric motors section of this catalogue, is available for gearmotors with integral M, ME or MX Series motors. The following table shows the direction of free rotation of the gearbox, on the basis of which the correct option must be selected.

(D 46)

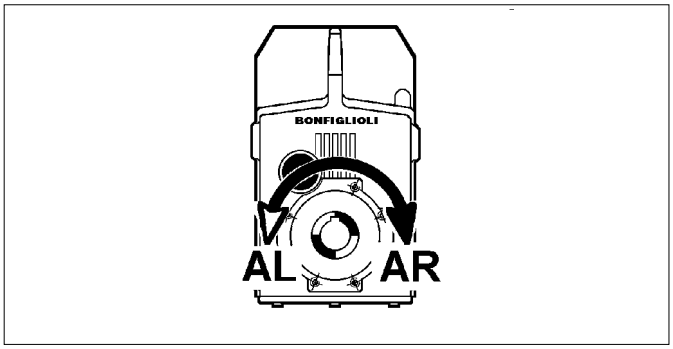
F 31 2*	**F 41 2** ⛀ (6.7; 10.8)					
F 31 3*	**F 41 3**	**F 51 3**	**F 60 3**	**F 70 3**	**F 80 3**	**F 90 3**
		F 51 4	**F 60 4**	**F 70 4**	**F 80 4**	**F 90 4**

* The supply of the backstop will ban the configuration of servomotor adapters type S_60A, S_ 60B, S_80A and FSC screw conveyor variant.

When ordering the gear unit, the direction of free rotation must be specified through either the AR or the AL option (Table D47).

⚠ N.B. When the anti-run back device operates very frequently make sure that the torque backdriving the gearbox does not exceed 70% of the rated torque T_{n2} for the captioned gear unit.

(D 47)



SO

Gear units F 10 through F 41 usually factory filled with oil, to be supplied unlubricated.

LO

Gearboxes F 51 through F 90, usually supplied without oil, to be supplied with synthetic oil currently used by BONFIGLIOLI RIDUTTORI and filled according to the mounting position specified.

DV

Dual oil seals on input shaft. (Only available for integral gearmotors).

VV

Oil seal in Fluoro elastomer compound on input shaft.

PV

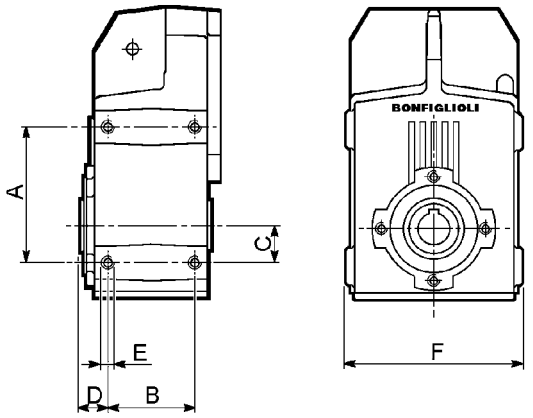
Both input and output shafts feature oil seal in Fluoro elastomer compound.

⛔ Doesn't apply for screw conveyor.

FL

Gear units F 10...F 41 can be side machined and tapped by specifying the FL option.
Mounting dimensions relevant to the FL option are given in the following chart. Gear units type F 51 through F 90 are side machined and tapped as standard.

(D 48)



Dimensions are in Inch except when shown in *italic [mm]*

	A	B	C	D	E	F
F 10	4.528	2.362	1.378	0.837	*M8x16*	6.417
F 20	5.118	2.756	1.575	1.043	*M10x20*	7.126
F 25	5.118	2.756	1.575	1.083	*M10x20*	7.126
F 31	5.787	3.150	1.772	1.181	*M12x20*	7.992
F 41	7.480	3.740	2.362	1.280	*M12x22*	9.252

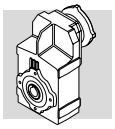
SURFACE PROTECTION

When no specific protection class is requested, the painted (ferrous) surfaces of gearboxes are protected to at least corrosivity class C2 (UNI EN ISO 12944-2). For improved resistance to atmospheric corrosion, gearboxes can be delivered with **C3** and **C4** surface protection, obtained by painting the complete gearbox.

(D 49)

SURFACE PROTECTION	Typical environments	Maximum surface temperature	Corrosivity class according to UNI EN ISO 12944-2
C3	Urban and industrial environments with up to 100% relative humidity (medium air pollution)	120°C [248 F°]	C3
C4	Industrial areas, coastal areas, chemical plant, with up to 100% relative humidity (high air pollution)	120°C [248 F°]	C4

Gearboxes with optional protection to class **C3** or **C4** are available in a choice of colours.
If no specific colour is requested (see the "PAINTING" option) gearboxes are finished in RAL 7042.
Gearboxes can also be supplied with surface protection for corrosivity class **C5** according to UNI EN ISO 12944-2. Contact our Technical Service for further details.



PAINTING

Gearboxes with optional protection to class C3 or C4 are available in the colours listed in the following table.

(D 50)

PAINTING	Colour	RAL number
RAL7042*	Traffik Grey A	7042
RAL5010	Gentian Blue	5010
RAL9005	Jet Black	9005
RAL9006	White Aluminium	9006
RAL9010	Pure White	9010
RAL7035	Light Grey	7035
RAL7001	Silver Grey	7001
RAL5015	Sky Blue	5015
RAL7037	Dusty Grey	7037
RAL5024	Pastel Blue	5024

* Gearboxes are supplied in this standard colour if no other colour is specified.

NOTE – “PAINTING” options can only be specified in conjunction with “SURFACE PROTECTION” options.

CERTIFICATES

AC - Certificate of compliance
The document certifies the compliance of the product with the purchase order and the construction in conformity with the applicable procedures of the Bonfiglioli Quality System.

CC - Inspection certificate
The document entails checking on order compliance, the visual inspection of external conditions and of mating dimensions. Checking on main functional parameters in unloaded conditions is also performed along with oil seal proofing, both in static and in running conditions. Units inspected are sampled within the shipping batch and marked individually.

48.2 Accessories

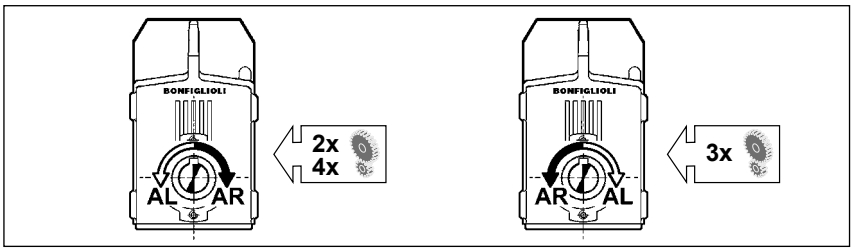
See chapter 59 of this catalogue.

48.3 Motor options

AL, AR

A backstop device on the motor itself, as described in the electric motors section of this catalogue, is available for gearmotors with integral M and ME Series motors. The following table shows the direction of free rotation of the gearbox, on the basis of which the correct option must be selected.

(D 51)



For further information on options, consult the electric motors section.

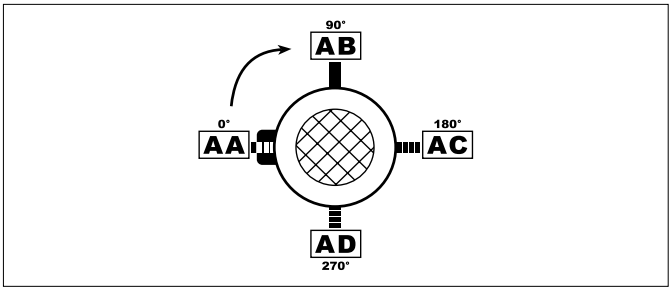
49 MOUNTING POSITION AND TERMINAL BOX ANGULAR LOCATION

Location of motor terminal box can be specified by viewing the motor from the fan side; standard location is shown in black (W).

Angular location of the brake release lever.

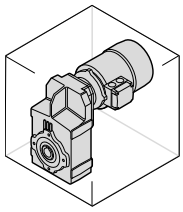
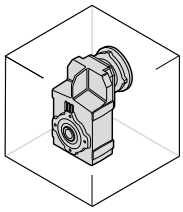
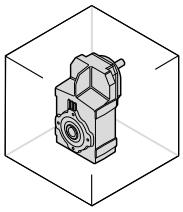
Unless otherwise specified, brake motors have the manual device side located, 90° apart from terminal box. Different angles can be specified through the relevant options available.

(D 52)

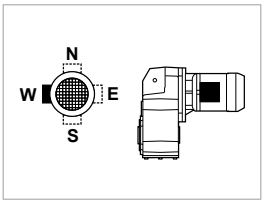


F ...

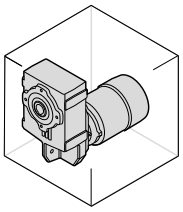
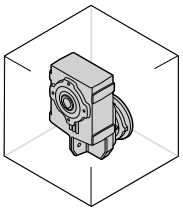
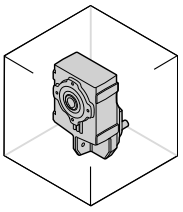
H1

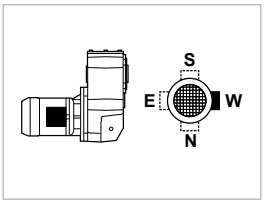
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



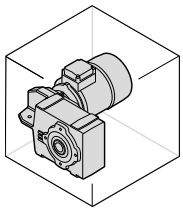
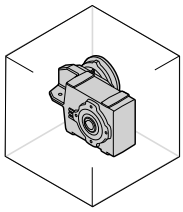
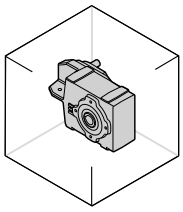
H2

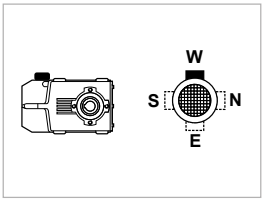
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



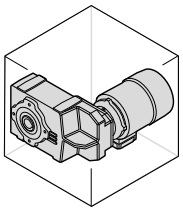
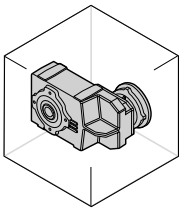
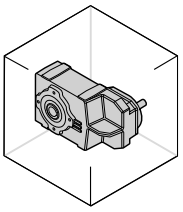
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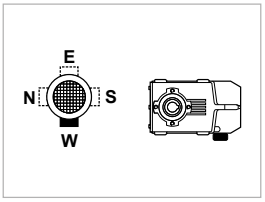
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



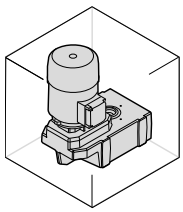
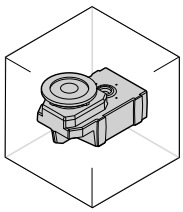
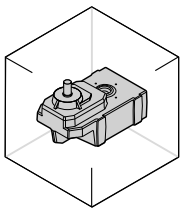
H4

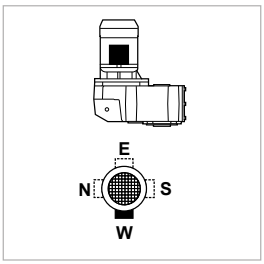
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



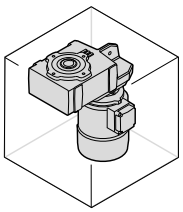
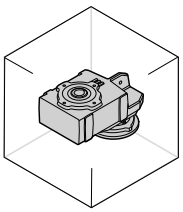
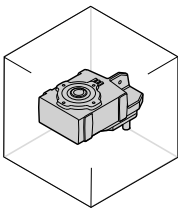
H5

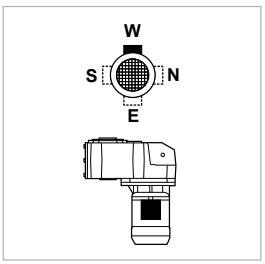
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



H6

_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



W = Default

H6 not for FSC screw conveyor

50 OVERHUNG LOADS

External transmissions keyed onto input and/or output shaft generate loads that act radially onto same shaft.
Resulting shaft loading must be compatible with both the bearing and the shaft capacity. Namely shaft loading (R_{c1} for input shaft, R_{c2} for output shaft), must be equal or lower than admissible overhung load capacity for shaft under study (R_{n1} for input shaft, R_{n2} for output shaft). OHL capability listed in the rating chart section.
In the formulas given below, index (1) applies to parameters relating to input shaft, whereas index (2) refers to output shaft.
The load generated by an external transmission can be calculated with close approximation by the following equations:

$$R_{c1}\,[\text{lbs}] = \frac{2 \cdot T_1\,[\text{lb·in}] \cdot K_r}{d\,[\text{in}]} \quad ; \quad R_{c2}\,[\text{lbs}] = \frac{2 \cdot T_2\,[\text{lb·in}] \cdot K_r}{d\,[\text{in}]} \qquad (35)$$

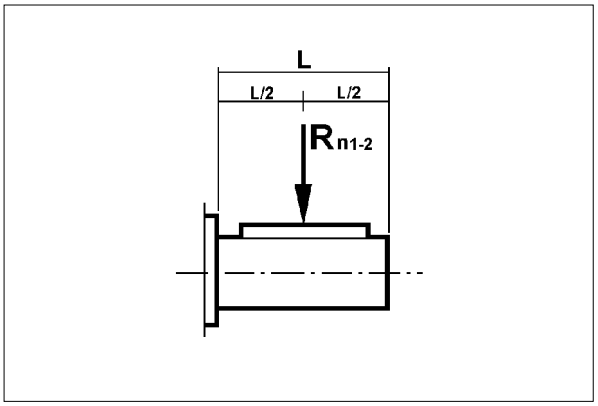
(D 53)

T_1 [lb•in]	Torque applied to input shaft
T_2 [lb•in]	Torque drawn at output shaft
d [in]	Pitch diameter of element keyed onto shaft
K_r = 1	Chain transmission

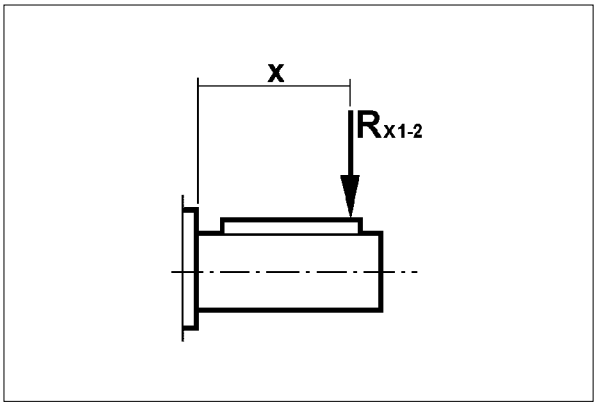
K_r = 1.25	Gear transmission
K_r = 1.5	V-belt transmission
K_r = 2.0	Flat belt transmission

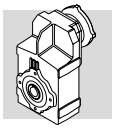
Verification of OHL capability varies depending on whether load applies at midpoint of shaft or it is shifted further out:

(D 54)



(D 55)





a) Load applied at midpoint of shaft, tab. (D54)

A comparison of shaft loading with catalogue OHL ratings should verify the following condition:

$Rc1 \leq Rn1$ [input shaft]

or

$Rc2 \leq Rn2$ [output shaft]

b) Load off the midpoint tab. (D55)

When load is shifted at an “x” distance from shaft shoulder, permissible load must be calculated for that distance.
Revised permissible overhung loads Rx1 (input) and Rx2 (output) are calculated respectively from original rated values Rn1 and Rn2 through factor:

$$\frac{a}{b+x} \qquad (36)$$

(D 56)

	Load location factors [in]					
	Output shaft			Input shaft		
	a	**b**	**c**	**a**	**b**	**c**
F 10 2	4.8	4.0	17.7	0.8	0	11.8
F 20 2	5.7	4.5	23.6	1.6	0.8	13.8
F 20 3	5.7	4.5	23.6	0.8	0	11.8
F 25 2 - F 25 3	6.2	5.0	31.5	1.6	0.8	13.8
F 25 4	6.2	5.0	31.5	0.8	0	11.8
F 31 2 - F 31 3	6.5	5.3	33.5	1.5	0.7	13.8
F 31 4	6.5	5.3	33.5	0.8	0	11.8
F 41 2 - F 41 3	7.5	6.0	39.4	1.9	1.0	17.7
F 41 4	7.5	6.0	39.4	1.6	0.8	13.8
F 51 2 - F 51 3	9.2	7.2	51.2	1.9	1.0	17.7
F 51 4	9.2	7.2	51.2	1.5	0.7	13.8
F 60 3	10.2	7.8	43.3	2.2	1.0	23.6
F 60 4	10.2	7.8	43.3	1.9	1.0	17.7
F 70 3	13.5	10.9	63.0	3.4	1.2	39.4
F 70 4	13.5	10.9	63.0	1.9	1.0	17.7
F 80 3	15.2	11.9	70.9	3.4	1.2	39.4
F 80 4	15.2	11.9	70.9	1.9	1.0	17.7
F 90 3	18.1	13.9	94.5	4.6	1.8	55.1
F 90 4	18.1	13.9	94.5	1.9	1.0	17.7

Verification procedure is described here after.

INPUT SHAFT

1. Calculate:

$$R_{x1} = R_{n1} \cdot \frac{a}{b + x} \quad (37)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \quad (38)$$

Finally, the following condition must be verified:

$$R_{c1} \leq R_{x1} \quad (39)$$

OUTPUT SHAFT

1. Calculate:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \quad (40)$$

N.B. Subject to condition:

$$\frac{L}{2} \leq x \leq c \quad (41)$$

Finally, the following condition must be verified:

$$R_{c2} \leq R_{x2} \quad (42)$$

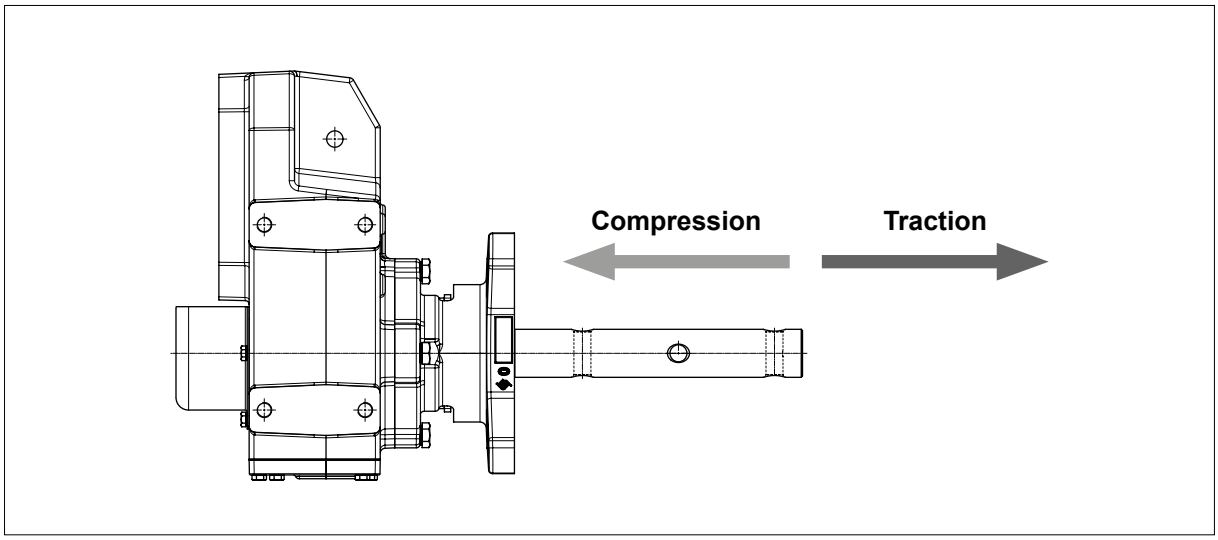
51 THRUST LOADS, A_{n1}, A_{n2}

Permissible thrust loads on input [A_{n1}] and output [A_{n2}] shafts are obtained from the radial loading for the shaft under consideration [R_{n1}] and [R_{n2}] through the following equation:

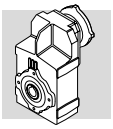
$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \qquad (43)$$

The thrust loads calculated through these formulas apply to thrust forces occurring at the same time as rated radial loads.
In the only case that no overhung load acts on the shaft the value of the admissible thrust load [A_n] amounts to 50% of rated OHL [R_n] on same shaft.
Where thrust loads exceed permissible value or largely prevail over radial loads, contact Bonfiglioli Riduttori for an in-depth analysis of the application.

52 THRUST LOADS SCREW CONVEYORS

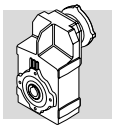


For screw conveyor applications, the permissible axial loads for the FSC variants are given in the following tables.
The listed values refer to axial load capacity only and shall not be considered as permissible loads acting simultaneously with radial loads. In applications where significant radial and axial loads are present at the same time, a dedicated verification of the gearbox output shaft and bearing arrangement is required.
For exceptional load conditions or applications exceeding the values shown in the tables, please contact Bonfiglioli for a detailed application review.



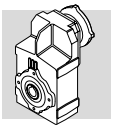
F31			1800 rpm	
Gearbox	Ratio	Mn2	A2 - Thrust Capacity - Compression	A2 - Thrust Capacity - Tension
		lb.in	lbs	lbs
F312	6.9	5310	1349	1911
F312	8.2	5310	1405	1967
F312	9	5310	1461	2023
F312	10.7	5310	1517	2585
F312	12.7	5310	1686	2754
F312	13.9	5310	1742	2810
F312	16.8	5310	1855	2979
F312	18.5	5310	1911	2979
F312	21.1	5310	2023	2979
F312	23.4	5310	2136	2979
F312	27.3	5310	2136	2979
F312	30.1	5310	2136	2979
F312	34.4	5310	2136	2979
F312	37.7	5310	2136	2979
F312	40.4	5310	2136	2979
F312	44.6	5310	2136	2979
F313	47.5	5310	2136	3091
F313	52.1-1539	5310	2136	3147

F41			1800 rpm	
Gearbox	Ratio	Mn2	A2 - Thrust Capacity - Compression	A2 - Thrust Capacity - Tension
		lb.in	lbs	lbs
F412	6.7	9736	1236	2642
F412	9.1	9736	1405	2979
F412	10.8	9736	1124	3035
F412	14.6	9736	1293	3372
F412	17.1	9736	1461	3597
F412	18.9	9736	1517	3709
F412	24.1	9736	1798	4159
F412	30.1	9736	1798	4204
F412	38.2	9736	1798	4204
F412	47.9	9736	1798	4204
F413	51.5	9736	1798	4204
F413	60.2-1411	9736	1798	4204

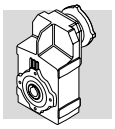


F51			1800 rpm	
Gearbox	Ratio	Mn2	A2 - Thrust Capacity - Compression	A2 - Thrust Capacity - Tension
		lb.in	lbs	lbs
F512	7.2	14604	1517	3316
F512	9.1	14604	1630	3653
F512	11.1	14604	1686	3934
F512	14	14604	1967	4271
F512	18.8	14604	2304	4777
F512	23.8	14604	2529	5171
F512	30	14604	2529	5171
F512	37.1	14604	2529	5171
F513	48.9	14604	2529	5171
F513	65.8	14604	2529	5171
F513	83.2	14604	2529	5171
F513	105.1	14604	2529	5171
F513	129.9-1439	14604	2529	5171

F60			1800 rpm	
Gearbox	Ratio	Mn2	A2 - Thrust Capacity - Compression	A2 - Thrust Capacity - Tension
		lb.in	lbs	lbs
F603	9.0	25667	8374	8430
F603	9.7	25667	8543	8599
F603	11.8	25667	9049	9105
F603	12.7	25667	9217	9273
F603	14.5	25667	9611	9667
F603	15.7	25667	9779	9835
F603	19.1-1141	25667	10510	10566



F70			1800 rpm	
Gearbox	Ratio	Mn2	A2 - Thrust Capacity - Compression	A2 - Thrust Capacity - Tension
		lb.in	lbs	lbs
F703	10	44254	9498	9611
F703	10.9	44254	9554	9667
F703	12.8	44254	10060	10173
F703	13.9	44254	10116	10229
F703	16.3	44254	10678	10847
F703	17.7	44254	10735	10847
F703	20.9	44254	10791	11971
F703	22.6	44254	10791	12027
F703	24.6	44254	10791	12758
F703	27.7	44254	10791	12702
F703	30.0-2188	44254	10791	12814

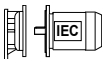


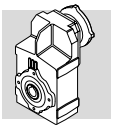
53 GEARMOTOR RATING CHARTS

The selection of motors without brake takes into account the requirements of Regulation EC 640/2009 (see section M of this catalogue). When the motor rated power is below 0.75kW (1HP), BN/M motors can be provided.

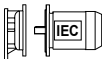
Considering that the Regulation EC 640/2009 shall not apply to the motors equipped with brake, the brakemotor selection takes into account BN/M motors only, without taking into account the rated power. BX, BE, MX and ME brakemotors are available on request.

0.16 hp

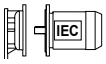
n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IE1		
1.2	7797	2.0	1439.5	2468	**F514_1439**		**P63+BN63A4**	**N56C**	550...553
1.2	7641	1.3	1410.5	1752	**F414_1411**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
1.3	7018	2.3	1295.5	2468	**F514_1296**		**P63+BN63A4**	**N56C**	550...553
1.4	6573	1.5	1213.4	1752	**F414_1213**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
1.4	6325	2.5	1167.6	2468	**F514_1168**		**P63+BN63A4**	**N56C**	550...553
1.5	5915	1.6	1092.0	1752	**F414_1092**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
1.6	5798	2.7	1070.3	2468	**F514_1070**		**P63+BN63A4**	**N56C**	550...553
1.6	5647	0.9	1042.5	1287	**F314_1042**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
1.7	5322	1.8	982.4	1752	**F414_982.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
1.8	5082	1.0	938.2	1339	**F314_938.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
1.9	4878	2.0	900.5	1752	**F414_900.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
2.0	4505	1.2	831.6	1339	**F314_831.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
2.1	4408	2.2	813.8	1752	**F414_813.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
2.2	4129	1.3	762.3	1339	**F314_762.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
2.3	4005	2.4	739.4	1752	**F414_739.4**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
2.4	3893	0.9	718.7	1275	**F254_718.7**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
2.4	3738	2.6	690.1	1752	**F414_690.1**	**S05+M05A4**	**P63+BN63A4**	**N56C**	540...543
2.5	3714	1.4	685.6	1339	**F314_685.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
2.6	3485	1.0	643.3	1337	**F254_643.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
2.7	3358	1.6	619.9	1339	**F314_619.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
2.9	3194	1.1	589.7	1337	**F254_589.7**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
2.9	3134	1.7	578.6	1339	**F314_578.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
3.2	2859	1.9	527.8	1339	**F314_527.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
3.2	2856	1.2	527.3	1337	**F254_527.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
3.6	2524	1.4	466.0	1337	**F254_466.0**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
3.7	2506	2.1	462.6	1339	**F314_462.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
3.9	2356	1.5	434.9	1337	**F254_434.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
4.0	2347	0.9	419.3	825	**F203_419.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
4.0	2269	2.3	418.9	1339	**F314_418.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
4.3	2134	1.7	393.9	1337	**F254_393.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
4.5	2096	2.5	374.4	1339	**F313_374.4**		**P63+BN63A4**	**N56C**	530...533
4.5	2087	1.1	372.9	825	**F203_372.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
5.1	1865	1.9	333.1	1337	**F253_333.1**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
5.1	1863	2.9	332.8	1339	**F313_332.8**		**P63+BN63A4**	**N56C**	530...533
5.3	1774	1.2	316.9	825	**F203_316.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
5.9	1613	2.2	288.1	1337	**F253_288.1**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
5.9	1596	1.4	285.2	825	**F203_285.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
6.6	1434	2.5	256.1	1337	**F253_256.1**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
6.6	1429	1.5	255.3	825	**F203_255.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513

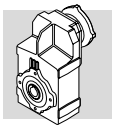


0.16 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IE1		
7.2	1310	1.7	234.0	825	**F203_234.0**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
7.4	1275	2.8	227.8	1337	**F253_227.8**	**S05+M05A4**	**P63+BN63A4**	**N56C**	530...533
8.1	1171	1.9	209.3	825	**F203_209.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
9.1	1035	2.1	184.9	825	**F203_184.9**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
9.8	966	2.3	172.6	825	**F203_172.6**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
10.8	875	2.5	156.3	825	**F203_156.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
12.8	756	2.9	132.2	825	**F202_132.2**	**S05+M05A4**	**P63+BN63A4**	**N56C**	510...513
13.3	727	1.7	127.1	580	**F102_127.1**	**S05+M05A4**	**P63+BN63A4**	**N56C**	500...503
15.9	606	2.0	106.0	580	**F102_106.0**	**S05+M05A4**	**P63+BN63A4**	**N56C**	500...503
18.5	523	2.4	91.5	580	**F102_91.5**	**S05+M05A4**	**P63+BN63A4**	**N56C**	500...503
20.8	465	2.7	81.3	580	**F102_81.3**	**S05+M05A4**	**P63+BN63A4**	**N56C**	500...503

0.25 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IE1		
0.76	18471	2.4	2187.5	7278	**F704_2188**		**P63+BN63B4**	**N56C**	570...573
0.83	17050	2.6	2019.2	7278	**F704_2019**		**P63+BN63B4**	**N56C**	570...573
1.2	12155	1.3	1439.5	2468	**F514_1439**		**P63+BN63B4**	**N56C**	550...553
1.3	10939	1.5	1295.5	2468	**F514_1296**		**P63+BN63B4**	**N56C**	550...553
1.4	10246	1.0	1213.4	1752	**F414_1213**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
1.4	9859	1.6	1167.6	2468	**F514_1168**		**P63+BN63B4**	**N56C**	550...553
1.5	9638	2.7	1141.4	4159	**F604_1141**		**P63+BN63B4**	**N56C**	560...563
1.5	9221	1.1	1092.0	1752	**F414_1092**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
1.6	9037	1.8	1070.3	2468	**F514_1070**		**P63+BN63B4**	**N56C**	550...553
1.6	8897	2.9	1053.6	4159	**F604_1054**		**P63+BN63B4**	**N56C**	560...563
1.7	8295	1.2	982.4	1752	**F414_982.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
1.7	8270	1.9	979.4	2468	**F514_979.4**		**P63+BN63B4**	**N56C**	550...553
1.9	7604	1.3	900.5	1752	**F414_900.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
1.9	7477	2.1	885.5	2468	**F514_885.5**		**P63+BN63B4**	**N56C**	550...553
2.0	6978	2.3	826.4	2468	**F514_826.4**		**P63+BN63B4**	**N56C**	550...553
2.1	6871	1.4	813.8	1752	**F414_813.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
2.3	6243	1.6	739.4	1752	**F414_739.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
2.4	5827	1.7	690.1	1752	**F414_690.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
2.4	5790	0.9	685.6	1287	**F314_685.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
2.5	5711	2.8	676.3	2468	**F514_676.3**		**P63+BN63B4**	**N56C**	550...553
2.7	5235	1.0	619.9	1339	**F314_619.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
2.9	4886	1.1	578.6	1339	**F314_578.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
3.0	4643	2.1	549.8	1752	**F414_549.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
3.2	4456	1.2	527.8	1339	**F314_527.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
3.6	3906	1.4	462.6	1339	**F314_462.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
3.8	3672	1.0	434.9	1337	**F254_434.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
3.9	3662	2.7	433.7	1752	**F414_433.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	540...543
4.0	3537	1.5	418.9	1339	**F314_418.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
4.2	3326	1.1	393.9	1337	**F254_393.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
4.5	3267	1.6	374.4	1339	**F313_374.4**		**P63+BN63B4**	**N56C**	530...533
5.0	2907	1.2	333.1	1337	**F253_333.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
5.0	2904	1.8	332.8	1339	**F313_332.8**		**P63+BN63B4**	**N56C**	530...533
5.7	2564	2.1	293.8	1339	**F313_293.8**		**P63+BN63B4**	**N56C**	530...533
5.8	2514	1.4	288.1	1337	**F253_288.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
6.5	2235	1.6	256.1	1337	**F253_256.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
6.5	2227	1.0	255.3	825	**F203_255.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
6.6	2213	2.4	253.6	1339	**F313_253.6**		**P63+BN63B4**	**N56C**	530...533
7.1	2042	1.1	234.0	825	**F203_234.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
7.3	1991	2.7	228.2	1339	**F313_228.2**		**P63+BN63B4**	**N56C**	530...533

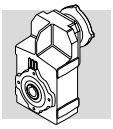


0.25 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
7.3	1988	1.8	227.8	1337	**F253_227.8**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
8.0	1826	1.2	209.3	825	**F203_209.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
8.6	1689	2.1	193.6	1337	**F253_193.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
9.0	1613	1.4	184.9	825	**F203_184.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
9.6	1520	2.3	174.2	1337	**F253_174.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
9.7	1506	1.5	172.6	825	**F203_172.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
10.7	1364	1.6	156.3	825	**F203_156.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
10.7	1361	2.6	155.9	1337	**F253_155.9**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
11.7	1247	2.8	143.0	1337	**F253_143.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	530...533
12.6	1178	1.9	132.2	825	**F202_132.2**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
13.1	1133	1.1	127.1	580	**F102_127.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503
14.6	1019	2.2	114.3	825	**F202_114.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
15.8	945	1.3	106.0	580	**F102_106.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503
16.4	906	2.4	101.6	825	**F202_101.6**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
18.3	815	1.5	91.5	580	**F102_91.5**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503
18.5	806	2.7	90.4	825	**F202_90.4**	**S05+M05B4**	**P63+BN63B4**	**N56C**	510...513
20.5	725	1.7	81.3	580	**F102_81.3**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503
23.5	634	2.0	71.1	580	**F102_71.1**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503
26.5	561	2.2	63.0	580	**F102_63.0**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503
29.5	505	2.5	56.7	580	**F102_56.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503
34	434	2.9	48.7	580	**F102_48.7**	**S05+M05B4**	**P63+BN63B4**	**N56C**	500...503

0.33 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
0.76	24396	1.8	2187.5	7278	**F704_2188**		**P71+BN71A4**	**N56C**	570...573
0.83	22519	2.0	2019.2	7278	**F704_2019**		**P71+BN71A4**	**N56C**	570...573
0.97	19145	2.3	1716.7	7278	**F704_1717**		**P71+BN71A4**	**N56C**	570...573
1.1	17672	2.5	1584.6	7278	**F704_1585**		**P71+BN71A4**	**N56C**	570...573
1.1	16522	2.7	1481.5	7278	**F704_1481**		**P71+BN71A4**	**N56C**	570...573
1.2	16053	1.0	1439.5	2468	**F514_1439**		**P71+BN71A4**	**N56C**	550...553
1.2	15251	2.9	1367.5	7278	**F704_1368**		**P71+BN71A4**	**N56C**	570...573
1.3	14448	1.1	1295.5	2468	**F514_1296**		**P71+BN71A4**	**N56C**	550...553
1.4	13021	1.2	1167.6	2468	**F514_1168**		**P71+BN71A4**	**N56C**	550...553
1.5	12729	2.0	1141.4	4159	**F604_1141**		**P71+BN71A4**	**N56C**	560...563
1.6	11936	1.3	1070.3	2468	**F514_1070**		**P71+BN71A4**	**N56C**	550...553
1.6	11750	2.2	1053.6	4159	**F604_1054**		**P71+BN71A4**	**N56C**	560...563
1.7	10922	1.5	979.4	2468	**F514_979.4**		**P71+BN71A4**	**N56C**	550...553
1.7	10694	2.4	958.9	4159	**F604_958.9**		**P71+BN71A4**	**N56C**	560...563
1.9	10043	1.0	900.5	1752	**F414_900.5**		**P71+BN71A4**	**N56C**	540...543
1.9	9875	1.6	885.5	2468	**F514_885.5**		**P71+BN71A4**	**N56C**	550...553
1.9	9871	2.6	885.1	4159	**F604_885.1**		**P71+BN71A4**	**N56C**	560...563
2.0	9217	1.7	826.4	2468	**F514_826.4**		**P71+BN71A4**	**N56C**	550...553
2.0	9133	2.8	819.0	4159	**F604_819.0**		**P71+BN71A4**	**N56C**	560...563
2.1	9075	1.1	813.8	1752	**F414_813.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	540...543
2.3	8246	1.2	739.4	1752	**F414_739.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	540...543
2.4	7696	1.3	690.1	1752	**F414_690.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	540...543
2.5	7542	2.1	676.3	2468	**F514_676.3**		**P71+BN71A4**	**N56C**	550...553
3.0	6132	1.6	549.8	1752	**F414_549.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	540...543
3.1	5916	2.7	530.5	2468	**F514_530.5**		**P71+BN71A4**	**N56C**	550...553
3.2	5886	0.9	527.8	1287	**F314_527.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
3.6	5159	1.0	462.6	1339	**F314_462.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533

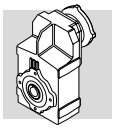


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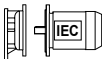
n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
3.9	4837	2.0	433.7	1752	**F414_433.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	540...543
4.0	4671	1.1	418.9	1339	**F314_418.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
4.5	4315	1.2	374.4	1339	**F313_374.4**		**P71+BN71A4**	**N56C**	530...533
4.8	3973	2.5	344.8	1752	**F413_344.8**		**P71+BN71A4**	**N56C**	540...543
5.0	3839	0.9	333.1	1337	**F253_333.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
5.0	3836	1.4	332.8	1339	**F313_332.8**		**P71+BN71A4**	**N56C**	530...533
5.6	3418	2.8	296.6	1752	**F413_296.6**		**P71+BN71A4**	**N56C**	540...543
5.7	3386	1.6	293.8	1339	**F313_293.8**		**P71+BN71A4**	**N56C**	530...533
5.8	3321	1.1	288.1	1337	**F253_288.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
6.5	2952	1.2	256.1	1337	**F253_256.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
6.6	2922	1.8	253.6	1339	**F313_253.6**		**P71+BN71A4**	**N56C**	530...533
7.3	2630	2.0	228.2	1339	**F313_228.2**		**P71+BN71A4**	**N56C**	530...533
7.3	2626	1.3	227.8	1337	**F253_227.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
8.0	2411	0.9	209.3	825	**F203_209.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
8.3	2331	2.3	202.3	1339	**F313_202.3**		**P71+BN71A4**	**N56C**	530...533
8.6	2231	1.6	193.6	1337	**F253_193.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
9.0	2137	2.5	185.4	1339	**F313_185.4**		**P71+BN71A4**	**N56C**	530...533
9.0	2131	1.0	184.9	825	**F203_184.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
9.6	2008	1.8	174.2	1337	**F253_174.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
9.7	1989	1.1	172.6	825	**F203_172.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
10.0	1922	2.8	166.8	1339	**F313_166.8**		**P71+BN71A4**	**N56C**	530...533
10.7	1801	1.2	156.3	825	**F203_156.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
10.7	1797	2.0	155.9	1337	**F253_155.9**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
11.7	1647	2.1	143.0	1337	**F253_143.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
12.6	1556	1.4	132.2	825	**F202_132.2**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
13.1	1473	2.4	127.8	1337	**F253_127.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
14.6	1346	1.6	114.3	825	**F202_114.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
14.8	1302	2.7	113.0	1337	**F253_113.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
15.8	1248	1.0	106.0	580	**F102_106.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
15.8	1215	2.9	105.4	1337	**F253_105.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	530...533
16.4	1196	1.8	101.6	825	**F202_101.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
18.3	1077	1.2	91.5	580	**F102_91.5**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
18.5	1064	2.1	90.4	825	**F202_90.4**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
20.5	957	1.3	81.3	580	**F102_81.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
21.7	904	2.4	76.8	825	**F202_76.8**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
23.5	837	1.5	71.1	580	**F102_71.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
24.2	814	2.7	69.1	825	**F202_69.1**	**S05+M05C4**	**P71+BN71A4**	**N56C**	510...513
26.5	742	1.7	63.0	580	**F102_63.0**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
29.5	667	1.9	56.7	580	**F102_56.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
34	574	2.2	48.7	580	**F102_48.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
37	526	2.4	44.7	580	**F102_44.7**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
42	467	2.7	39.6	580	**F102_39.6**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503
47	416	3.0	35.3	580	**F102_35.3**	**S05+M05C4**	**P71+BN71A4**	**N56C**	500...503

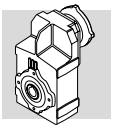
0.50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
0.78	36420	1.2	2187.5	7278	**F704_2188**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
0.84	33618	1.3	2019.2	7278	**F704_2019**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
0.86	33078	2.1	1986.8	9378	**F804_1987**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	578...581
0.93	30534	2.3	1834.0	9378	**F804_1834**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	578...581
0.99	28581	1.5	1716.7	7278	**F704_1717**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
0.99	28455	2.5	1709.1	9378	**F804_1709**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	578...581
1.1	26382	1.7	1584.6	7278	**F704_1585**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573



0.50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IEC IE1	 NEMA	
1.1	26266	2.7	1577.6	9378	**F804_1578**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	578...581
1.1	24665	1.8	1481.5	7278	**F704_1481**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
1.2	22768	1.9	1367.5	7278	**F704_1368**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
1.4	19676	2.2	1181.8	7278	**F704_1182**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
1.5	19003	1.4	1141.4	4159	**F604_1141**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
1.6	18163	2.4	1090.9	7278	**F704_1091**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
1.6	17541	1.5	1053.6	4159	**F604_1054**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
1.7	16305	1.0	979.4	2468	**F514_979.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
1.7	16222	2.7	974.4	7278	**F704_974.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
1.8	15964	1.6	958.9	4159	**F604_958.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
1.9	14974	3.0	899.4	7278	**F704_899.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	570...573
1.9	14742	1.1	885.5	2468	**F514_885.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
1.9	14736	1.7	885.1	4159	**F604_885.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
2.1	13759	1.2	826.4	2468	**F514_826.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
2.1	13635	1.9	819.0	4159	**F604_819.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
2.2	12586	2.0	756.0	4159	**F604_756.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
2.5	11260	1.4	676.3	2468	**F514_676.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
2.6	11028	2.3	662.4	4159	**F604_662.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
2.8	10180	2.5	611.4	4159	**F604_611.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
3.1	9154	1.1	549.8	1752	**F414_549.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
3.2	8835	2.9	530.7	4159	**F604_530.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	560...563
3.2	8832	1.8	530.5	2468	**F514_530.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
3.9	7220	1.3	433.7	1752	**F414_433.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
4.0	7144	2.2	429.1	2468	**F514_429.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
4.8	6065	2.6	352.5	2468	**F513_352.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
4.9	5932	1.6	344.8	1752	**F413_344.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
5.1	5726	0.9	332.8	1287	**F313_332.8**		**P71+BN71B4**	**N56C**	530...533
5.4	5458	2.9	317.3	2468	**F513_317.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	550...553
5.7	5103	1.9	296.6	1752	**F413_296.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
5.8	5055	1.1	293.8	1339	**F313_293.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
6.4	4592	2.1	266.9	1752	**F413_266.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
6.7	4363	1.2	253.6	1339	**F313_253.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
7.1	4131	2.4	240.1	1752	**F413_240.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
7.4	3926	1.4	228.2	1339	**F313_228.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
7.5	3920	0.9	227.8	1275	**F253_227.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
7.7	3787	2.6	220.1	1752	**F413_220.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
8.4	3480	1.5	202.3	1339	**F313_202.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
8.5	3422	2.8	198.9	1752	**F413_198.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	540...543
8.8	3330	1.1	193.6	1337	**F253_193.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
9.2	3190	1.7	185.4	1339	**F313_185.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
9.8	2997	1.2	174.2	1337	**F253_174.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
10.2	2869	1.9	166.8	1339	**F313_166.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
10.9	2683	1.3	155.9	1337	**F253_155.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
11.3	2594	2.0	150.8	1339	**F313_150.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
11.9	2459	1.4	143.0	1337	**F253_143.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
12.1	2421	2.2	140.7	1339	**F313_140.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
12.9	2323	1.0	132.2	825	**F202_132.2**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
13.2	2209	2.4	128.4	1339	**F313_128.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
13.3	2199	1.6	127.8	1337	**F253_127.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
14.9	2009	1.1	114.3	825	**F202_114.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
15.0	1943	1.8	113.0	1337	**F253_113.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
15.1	1936	2.7	112.5	1339	**F313_112.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
16.1	1814	2.0	105.4	1337	**F253_105.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
16.7	1753	2.9	101.9	1339	**F313_101.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
16.7	1786	1.2	101.6	825	**F202_101.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
17.8	1643	2.2	95.5	1335	**F253_95.5**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533

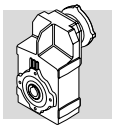


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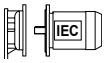
n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
18.8	1589	1.4	90.4	825	**F202_90.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
20.4	1435	2.5	83.4	1292	**F253_83.4**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
22.1	1350	1.6	76.8	825	**F202_76.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
22.2	1318	2.7	76.6	1267	**F253_76.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
23.9	1250	1.0	71.1	580	**F102_71.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
24.6	1215	1.8	69.1	825	**F202_69.1**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
26.0	1124	3.0	65.3	1218	**F253_65.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	530...533
27.0	1107	1.1	63.0	580	**F102_63.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
27.5	1088	2.0	61.9	825	**F202_61.9**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
30.0	997	2.2	56.7	825	**F202_56.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
30.0	996	1.2	56.7	580	**F102_56.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
34	891	2.4	50.7	804	**F202_50.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
35	856	1.4	48.7	580	**F102_48.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
38	788	2.6	44.8	777	**F202_44.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
38	785	1.6	44.7	580	**F102_44.7**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
41	735	2.8	41.8	763	**F202_41.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	510...513
43	697	1.8	39.6	580	**F102_39.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
48	621	2.0	35.3	580	**F102_35.3**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
52	580	2.1	33.0	580	**F102_33.0**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
57	521	2.2	29.6	580	**F102_29.6**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
66	453	2.5	25.8	557	**F102_25.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503
74	401	2.8	22.8	538	**F102_22.8**	**S1+M1SD4**	**P71+BN71B4**	**N56C**	500...503

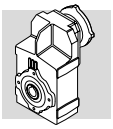
0.75 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
0.81	52161	2.4	2098.7	11450	**F904_2099**		**P80+BN80A4**	**N56C**	586...589
0.86	49380	1.4	1986.8	9378	**F804_1987**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
0.88	48149	2.6	1937.3	11450	**F904_1937**		**P80+BN80A4**	**N56C**	586...589
0.93	45582	1.6	1834.0	9378	**F804_1834**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.0	42666	1.0	1716.7	7278	**F704_1717**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.0	42478	1.7	1709.1	9378	**F804_1709**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.0	42309	2.9	1702.3	11450	**F904_1702**		**P80+BN80A4**	**N56C**	586...589
1.1	39384	1.1	1584.6	7278	**F704_1585**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.1	39210	1.8	1577.6	9378	**F804_1578**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.2	36821	1.2	1481.5	7278	**F704_1481**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.2	34392	2.1	1383.8	9378	**F804_1384**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.3	33988	1.3	1367.5	7278	**F704_1368**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.3	31747	2.2	1277.3	9378	**F804_1277**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.4	29373	1.5	1181.8	7278	**F704_1182**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.5	28489	2.5	1146.2	9378	**F804_1146**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.5	28368	0.9	1141.4	4159	**F604_1141**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
1.6	27113	1.6	1090.9	7278	**F704_1091**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.6	26297	2.7	1058.1	9378	**F804_1058**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.6	26186	1.0	1053.6	4159	**F604_1054**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
1.8	24217	1.8	974.4	7278	**F704_974.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.8	24159	2.9	972.0	9378	**F804_972.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	578...581
1.8	23831	1.1	958.9	4159	**F604_958.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
1.9	22354	2.0	899.4	7278	**F704_899.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
1.9	21998	1.2	885.1	4159	**F604_885.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
2.1	20435	2.2	822.2	7278	**F704_822.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
2.1	20354	1.3	819.0	4159	**F604_819.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
2.3	18864	2.3	759.0	7278	**F704_759.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573



0.75 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		 IE1	 IEC IE1	 NEMA	
2.3	18789	1.4	756.0	4159	**F604_756.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
2.5	16809	0.9	676.3	2263	**F514_676.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
2.6	16463	1.6	662.4	4159	**F604_662.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
2.6	16339	2.7	657.4	7278	**F704_657.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
2.8	15197	1.7	611.4	4159	**F604_611.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
2.8	15082	2.9	606.8	7278	**F704_606.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	570...573
3.2	13189	1.9	530.7	4159	**F604_530.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
3.2	13185	1.2	530.5	2468	**F514_530.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
3.5	12175	2.1	489.8	4159	**F604_489.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
3.9	10779	0.9	433.7	1598	**F414_433.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
4.0	10752	2.4	432.6	4159	**F604_432.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
4.0	10665	1.5	429.1	2468	**F514_429.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
4.3	9925	2.6	399.3	4159	**F604_399.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	560...563
4.9	9054	1.8	352.5	2468	**F513_352.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
5.0	8855	1.1	344.8	1752	**F413_344.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
5.4	8148	2.0	317.3	2468	**F513_317.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
5.8	7617	1.3	296.6	1752	**F413_296.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
6.0	7344	2.2	285.9	2468	**F513_285.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
6.4	6856	1.4	266.9	1752	**F413_266.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
6.5	6732	2.4	262.1	2468	**F513_262.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
7.1	6167	1.6	240.1	1752	**F413_240.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
7.1	6160	2.6	239.8	2468	**F513_239.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
7.5	5861	0.9	228.2	1215	**F313_228.2**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
7.8	5654	1.7	220.1	1752	**F413_220.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
7.9	5569	2.9	216.9	2468	**F513_216.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	550...553
8.5	5195	1.0	202.3	1339	**F313_202.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
8.6	5109	1.9	198.9	1752	**F413_198.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
9.2	4762	1.1	185.4	1339	**F313_185.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
9.5	4642	2.1	180.7	1752	**F413_180.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
10.1	4332	2.2	168.7	1752	**F413_168.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
10.3	4283	1.2	166.8	1339	**F313_166.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
11.3	3873	1.4	150.8	1339	**F313_150.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
12.0	3671	1.0	143.0	1275	**F253_143.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
12.2	3614	1.5	140.7	1339	**F313_140.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
12.7	3452	2.8	134.4	1752	**F413_134.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	540...543
13.3	3297	1.6	128.4	1339	**F313_128.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
13.4	3283	1.1	127.8	1323	**F253_127.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
15.1	2901	1.2	113.0	1261	**F253_113.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
15.2	2890	1.8	112.5	1339	**F313_112.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
16.2	2708	1.3	105.4	1249	**F253_105.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
16.8	2617	1.9	101.9	1339	**F313_101.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
17.9	2452	1.4	95.5	1230	**F253_95.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
18.9	2372	0.9	90.4	752	**F202_90.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
19.6	2244	2.2	87.4	1339	**F313_87.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
20.5	2142	1.7	83.4	1201	**F253_83.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
21.7	2026	2.4	78.9	1339	**F313_78.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
22.3	2015	1.1	76.8	825	**F202_76.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
22.3	1967	1.8	76.6	1183	**F253_76.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
24.7	1814	1.2	69.1	820	**F202_69.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
24.8	1774	2.8	69.1	1339	**F313_69.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
26.2	1678	2.0	65.3	1146	**F253_65.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
27.6	1624	1.4	61.9	802	**F202_61.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
29.3	1498	2.2	58.3	1117	**F253_58.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
30	1488	1.5	56.7	785	**F202_56.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
34	1304	2.5	50.8	1084	**F253_50.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
34	1331	1.6	50.7	767	**F202_50.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513

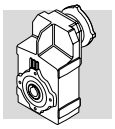


0.75 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE1	IEC IE1	NEMA	
35	1278	1.0	48.7	549	**F102_48.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
38	1170	2.8	45.6	1055	**F253_45.6**		**P80+BN80A4**	**N56C**	530...533
38	1176	1.8	44.8	744	**F202_44.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
38	1172	1.1	44.7	580	**F102_44.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
38	1166	2.7	44.4	1057	**F252_44.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
41	1098	1.9	41.8	732	**F202_41.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
42	1068	2.9	40.7	1035	**F252_40.7**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	530...533
43	1040	1.2	39.6	580	**F102_39.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
45	994	2.0	37.9	713	**F202_37.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
48	927	1.3	35.3	580	**F102_35.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
52	868	2.3	33.1	689	**F202_33.1**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
52	865	1.4	33.0	569	**F102_33.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
56	797	2.6	30.4	672	**F202_30.4**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
58	777	1.5	29.6	555	**F102_29.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
66	680	2.9	25.9	645	**F202_25.9**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	510...513
66	676	1.7	25.8	536	**F102_25.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
75	599	1.9	22.8	520	**F102_22.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
88	507	2.2	19.3	497	**F102_19.3**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
101	445	2.3	17.0	478	**F102_17.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
117	384	2.5	14.6	460	**F102_14.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
131	342	2.5	13.0	443	**F102_13.0**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
148	303	2.6	11.5	429	**F102_11.5**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
175	256	2.8	9.8	408	**F102_9.8**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503
199	225	3.0	8.6	391	**F102_8.6**	**S1+M1LA4**	**P80+BN80A4**	**N56C**	500...503

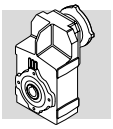
1 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
0.83	68545	1.8	2098.7	11450	**F904_2099**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	586...589
0.88	64891	1.1	1986.8	9378	**F804_1987**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
0.90	63272	2.0	1937.3	11450	**F904_1937**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	586...589
0.95	59899	1.2	1834.0	9378	**F804_1834**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.0	55820	1.3	1709.1	9378	**F804_1709**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.0	55599	2.2	1702.3	11450	**F904_1702**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	586...589
1.1	51526	1.4	1577.6	9378	**F804_1578**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.1	51322	2.4	1571.4	11450	**F904_1571**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	586...589
1.2	48386	0.9	1481.5	7278	**F704_1481**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
1.2	46636	2.7	1427.9	11450	**F904_1428**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	586...589
1.3	45195	1.6	1383.8	9378	**F804_1384**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.3	44664	1.0	1367.5	7278	**F704_1368**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
1.3	43049	2.9	1318.1	11450	**F904_1318**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	586...589
1.4	41719	1.7	1277.3	9378	**F804_1277**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.5	38599	1.1	1181.8	7278	**F704_1182**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
1.5	37437	1.9	1146.2	9378	**F804_1146**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.6	35630	1.2	1090.9	7278	**F704_1091**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
1.6	34557	2.0	1058.1	9378	**F804_1058**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.8	31823	1.4	974.4	7278	**F704_974.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
1.8	31748	2.2	972.0	9378	**F804_972.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
1.9	29375	1.5	899.4	7278	**F704_899.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
1.9	29306	2.4	897.3	9378	**F804_897.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581
2.1	26854	1.6	822.2	7278	**F704_822.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
2.1	26748	1.0	819.0	4159	**F604_819.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
2.3	25293	2.8	774.4	9378	**F804_774.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	578...581



1 hp

n_2	T_2	S	i	R_{n2}		IEC		IEC		NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
2.3	24789	1.8	759.0	7278	**F704_759.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
2.3	24690	1.0	756.0	4159	**F604_756.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
2.6	21634	1.2	662.4	4159	**F604_662.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
2.7	21471	2.1	657.4	7278	**F704_657.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
2.9	19970	1.3	611.4	4159	**F604_611.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
2.9	19820	2.2	606.8	7278	**F704_606.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
3.3	17332	1.5	530.7	4159	**F604_530.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
3.3	17326	0.9	530.5	2263	**F514_530.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
3.4	16671	2.7	510.4	7278	**F704_510.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
3.6	15999	1.6	489.8	4159	**F604_489.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
3.7	15388	2.9	471.2	7278	**F704_471.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	570...573
4.0	14130	1.8	432.6	4159	**F604_432.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
4.1	14014	1.1	429.1	2468	**F514_429.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
4.4	13043	2.0	399.3	4159	**F604_399.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
5.0	11897	1.3	352.5	2468	**F513_352.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
5.1	11159	2.3	341.7	4159	**F604_341.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
5.5	10708	1.5	317.3	2468	**F513_317.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
5.5	10301	2.5	315.4	4159	**F604_315.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
5.9	10010	1.0	296.6	1752	**F413_296.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
6.1	9650	1.7	285.9	2468	**F513_285.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
6.2	9473	2.7	280.7	4159	**F603_280.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
6.5	9009	1.1	266.9	1752	**F413_266.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
6.7	8846	1.8	262.1	2468	**F513_262.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
6.7	8744	2.9	259.1	4159	**F603_259.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	560...563
7.3	8105	1.2	240.1	1752	**F413_240.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
7.3	8095	2.0	239.8	2468	**F513_239.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
7.9	7429	1.3	220.1	1752	**F413_220.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
8.0	7319	2.2	216.9	2468	**F513_216.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
8.6	6831	2.3	202.4	2468	**F513_202.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
8.8	6713	1.5	198.9	1752	**F413_198.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
9.7	6100	1.6	180.7	1752	**F413_180.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
10.3	5693	1.7	168.7	1752	**F413_168.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
10.5	5629	0.9	166.8	1215	**F313_166.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
10.5	5590	2.9	165.6	2468	**F513_165.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	550...553
11.6	5089	1.0	150.8	1339	**F313_150.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
12.4	4750	1.1	140.7	1339	**F313_140.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
13.0	4536	2.1	134.4	1752	**F413_134.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
13.6	4333	1.2	128.4	1339	**F313_128.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
15.4	3812	0.9	113.0	1142	**F253_113.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
15.5	3798	1.4	112.5	1339	**F313_112.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
16.5	3578	2.7	106.0	1752	**F413_106.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	540...543
16.6	3558	1.0	105.4	1152	**F253_105.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
17.1	3439	1.5	101.9	1339	**F313_101.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
18.3	3223	1.1	95.5	1121	**F253_95.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
20.0	2949	1.7	87.4	1339	**F313_87.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
20.9	2814	1.3	83.4	1101	**F253_83.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
22.1	2662	1.8	78.9	1339	**F313_78.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
22.8	2585	1.4	76.6	1090	**F253_76.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
25.2	2383	0.9	69.1	742	**F202_69.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
25.3	2331	2.1	69.1	1339	**F313_69.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
26.7	2205	1.5	65.3	1066	**F253_65.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
27.8	2118	2.3	62.8	1339	**F313_62.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
28.2	2133	1.0	61.9	763	**F202_61.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
29.9	1969	1.7	58.3	1045	**F253_58.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
31	1956	1.1	56.7	740	**F202_56.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
33	1758	2.7	52.1	1339	**F313_52.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533

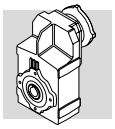


1 hp

n_2	T_2	S	i	R_{n2}				IEC		NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
34	1714	1.9	50.8	1020	**F253_50.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
34	1749	1.2	50.7	724	**F202_50.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
38	1538	2.1	45.6	1000	**F253_45.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
39	1545	1.3	44.8	705	**F202_44.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
39	1532	2.1	44.4	1006	**F252_44.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
42	1442	1.4	41.8	695	**F202_41.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
43	1404	2.2	40.7	985	**F252_40.7**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
44	1367	0.9	39.6	528	**F102_39.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
46	1306	1.6	37.9	680	**F202_37.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
48	1256	2.6	36.4	963	**F252_36.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
49	1218	1.0	35.3	538	**F102_35.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
53	1141	1.8	33.1	660	**F202_33.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
53	1137	1.1	33.0	549	**F102_33.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
54	1109	3.0	32.2	934	**F252_32.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	530...533
57	1048	1.9	30.4	647	**F202_30.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
59	1022	1.1	29.6	528	**F102_29.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
67	894	2.2	25.9	623	**F202_25.9**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
68	888	1.3	25.8	511	**F102_25.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
75	798	2.4	23.1	604	**F202_23.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
76	787	1.4	22.8	497	**F102_22.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
87	695	2.6	20.2	583	**F202_20.2**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
90	666	1.7	19.3	478	**F102_19.3**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
97	623	2.8	18.1	565	**F202_18.1**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	510...513
103	585	1.8	17.0	462	**F102_17.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
119	505	1.9	14.6	445	**F102_14.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
134	449	1.9	13.0	429	**F102_13.0**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
151	398	2.0	11.5	416	**F102_11.5**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
179	337	2.1	9.8	398	**F102_9.8**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
203	296	2.2	8.6	383	**F102_8.6**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503
236	255	2.4	7.4	366	**F102_7.4**	**S2+ME2SB4**	**S2+MX2SB4**	**P80+BE80B4**	**P80+BX90SR4**	**N56C**	500...503

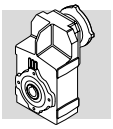
1.5 hp

n_2	T_2	S	i	R_{n2}				IEC		NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
0.83	100310	1.2	2098.7	11450	**F904_2099**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
0.90	92594	1.3	1937.3	11450	**F904_1937**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.0	81364	1.5	1702.3	11450	**F904_1702**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.1	75404	0.9	1577.6	9378	**F804_1578**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
1.1	75105	1.6	1571.4	11450	**F904_1571**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.2	68248	1.8	1427.9	11450	**F904_1428**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.3	66139	1.1	1383.8	9378	**F804_1384**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
1.3	62998	2.0	1318.1	11450	**F904_1318**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.4	61052	1.2	1277.3	9378	**F804_1277**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
1.4	57592	2.2	1204.9	11450	**F904_1205**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.5	54786	1.3	1146.2	9378	**F804_1146**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
1.6	53162	2.3	1112.3	11450	**F904_1112**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.6	50572	1.4	1058.1	9378	**F804_1058**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
1.8	47128	2.6	986.0	11450	**F904_986.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.8	46571	1.0	974.4	7278	**F704_974.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
1.8	46460	1.5	972.0	9378	**F804_972.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
1.9	43503	2.8	910.2	11450	**F904_910.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	586...589
1.9	42988	1.0	899.4	7278	**F704_899.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
1.9	42886	1.7	897.3	9378	**F804_897.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581



1.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
2.1	39299	1.1	822.2	7278	**F704_822.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
2.2	37015	1.9	774.4	9378	**F804_774.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
2.3	36276	1.2	759.0	7278	**F704_759.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
2.4	34168	2.1	714.9	9378	**F804_714.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
2.6	31421	1.4	657.4	7278	**F704_657.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
2.8	29197	2.4	610.9	9378	**F804_610.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
2.9	29004	1.5	606.8	7278	**F704_606.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
3.1	26951	2.6	563.9	9378	**F804_563.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	578...581
3.3	25364	1.0	530.7	4159	**F604_530.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
3.4	24396	1.8	510.4	7278	**F704_510.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
3.6	23413	1.1	489.8	4159	**F604_489.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
3.7	22519	2.0	471.2	7278	**F704_471.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
4.0	20677	1.2	432.6	4159	**F604_432.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
4.3	19286	2.3	403.5	7278	**F704_403.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
4.4	19087	1.3	399.3	4159	**F604_399.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
4.7	17803	2.5	372.5	7278	**F704_372.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	570...573
4.9	17411	0.9	352.5	2263	**F513_352.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
5.1	16331	1.6	341.7	4159	**F604_341.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
5.5	15670	1.0	317.3	2468	**F513_317.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
5.5	15074	1.7	315.4	4159	**F604_315.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
6.1	14122	1.1	285.9	2468	**F513_285.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
6.2	13862	1.9	280.7	4159	**F603_280.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
6.6	12945	1.2	262.1	2468	**F513_262.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
6.7	12796	2.0	259.1	4159	**F603_259.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
7.3	11846	1.3	239.8	2468	**F513_239.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
7.4	11645	2.2	235.8	4159	**F603_235.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
8.0	10749	2.4	217.6	4159	**F603_217.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
8.0	10710	1.5	216.9	2468	**F513_216.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
8.6	9996	1.6	202.4	2468	**F513_202.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
8.6	9946	2.6	201.4	4159	**F603_201.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
8.7	9825	1.0	198.9	1752	**F413_198.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	540...543
9.4	9181	2.8	185.9	4159	**F603_185.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	560...563
9.6	8927	1.1	180.7	1752	**F413_180.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	540...543
10.3	8331	1.2	168.7	1752	**F413_168.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	540...543
10.5	8180	1.9	165.6	2468	**F513_165.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
12.9	6638	1.5	134.4	1752	**F413_134.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	540...543
13.4	6416	2.5	129.9	2468	**F513_129.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	550...553
15.5	5558	0.9	112.5	1215	**F313_112.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
16.4	5236	1.9	106.0	1752	**F413_106.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	540...543
17.1	5032	1.0	101.9	1339	**F313_101.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
19.9	4315	1.1	87.4	1339	**F313_87.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
20.5	4192	2.2	84.9	1752	**F413_84.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	540...543
22.1	3895	1.3	78.9	1339	**F313_78.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
22.7	3782	0.9	76.6	963	**F253_76.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
25.2	3411	1.4	69.1	1339	**F313_69.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
26.2	3284	2.7	66.5	1752	**F413_66.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	540...543
26.6	3227	1.0	65.3	948	**F253_65.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
27.7	3100	1.6	62.8	1339	**F313_62.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
29.8	2881	1.1	58.3	926	**F253_58.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
33	2573	1.8	52.1	1339	**F313_52.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
34	2508	1.3	50.8	915	**F253_50.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
37	2348	2.2	47.5	1339	**F313_47.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
38	2250	1.5	45.6	905	**F253_45.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
39	2261	0.9	44.8	625	**F202_44.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
39	2252	2.2	44.6	1339	**F312_44.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
39	2242	1.4	44.4	919	**F252_44.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533

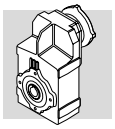


1.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
42	2111	1.0	41.8	639	**F202_41.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
43	2055	1.5	40.7	907	**F252_40.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
43	2036	2.4	40.4	1339	**F312_40.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
46	1912	1.1	37.9	629	**F202_37.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
46	1901	2.6	37.7	1339	**F312_37.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
48	1837	1.8	36.4	891	**F252_36.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
51	1734	2.8	34.4	1339	**F312_34.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
53	1669	1.2	33.1	614	**F202_33.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
54	1624	2.0	32.2	872	**F252_32.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
57	1533	1.3	30.4	604	**F202_30.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
58	1515	2.2	30.0	862	**F252_30.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
64	1373	2.4	27.2	843	**F252_27.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
67	1308	1.5	25.9	585	**F202_25.9**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
73	1199	2.8	23.8	821	**F252_23.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
75	1168	1.6	23.1	573	**F202_23.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
76	1152	1.0	22.8	435	**F102_22.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
80	1101	3.0	21.8	806	**F252_21.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	530...533
86	1017	1.8	20.2	555	**F202_20.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
90	975	1.1	19.3	449	**F102_19.3**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
96	912	1.9	18.1	540	**F202_18.1**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
102	857	1.2	17.0	437	**F102_17.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
118	747	2.2	14.8	515	**F202_14.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
119	739	1.3	14.6	424	**F102_14.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
134	657	1.3	13.0	410	**F102_13.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
151	582	1.3	11.5	398	**F102_11.5**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
155	567	2.5	11.2	476	**F202_11.2**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
173	506	2.7	10.0	454	**F202_10.0**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
178	493	1.5	9.8	381	**F102_9.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
199	441	2.9	8.7	445	**F202_8.7**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
203	433	1.5	8.6	369	**F102_8.6**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503
222	395	3.0	7.8	433	**F202_7.8**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	510...513
235	374	1.7	7.4	356	**F102_7.4**	**S3+ME3SA4**	**S3+MX3SA4**	**P90+BE90S4**	**P90+BX90S4**	**N140TC**	500...503

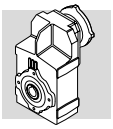
2 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
0.83	137090	0.9	2098.7	11450	**F904_2099**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
0.90	126545	1.0	1937.3	11450	**F904_1937**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.0	111198	1.1	1702.3	11450	**F904_1702**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.1	102644	1.2	1571.4	11450	**F904_1571**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.2	93272	1.3	1427.9	11450	**F904_1428**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.3	86098	1.4	1318.1	11450	**F904_1318**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.4	78709	1.6	1204.9	11450	**F904_1205**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.5	74874	0.9	1146.2	9378	**F804_1146**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
1.6	72654	1.7	1112.3	11450	**F904_1112**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.6	69114	1.0	1058.1	9378	**F804_1058**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
1.8	64409	1.9	986.0	11450	**F904_986.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.8	63495	1.1	972.0	9378	**F804_972.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
1.9	59454	2.1	910.2	11450	**F904_910.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
1.9	58611	1.2	897.3	9378	**F804_897.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
2.2	50587	1.4	774.4	9378	**F804_774.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
2.2	50523	2.5	773.4	11450	**F904_773.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
2.4	46696	1.5	714.9	9378	**F804_714.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581



2 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
2.4	46636	2.7	714.0	11450	**F904_714.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	586...589
2.6	42943	1.0	657.4	7278	**F704_657.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
2.8	39903	1.8	610.9	9378	**F804_610.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
2.9	39639	1.1	606.8	7278	**F704_606.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
3.1	36833	1.9	563.9	9378	**F804_563.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
3.4	33341	1.3	510.4	7278	**F704_510.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
3.6	31950	2.2	489.1	9378	**F804_489.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
3.7	30776	1.4	471.2	7278	**F704_471.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
3.9	29492	2.4	451.5	9378	**F804_451.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
4.0	28259	0.9	432.6	4159	**F604_432.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
4.3	26358	1.7	403.5	7278	**F704_403.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
4.4	26085	1.0	399.3	4159	**F604_399.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
4.5	25028	2.8	383.2	9378	**F804_383.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	578...581
4.7	24330	1.8	372.5	7278	**F704_372.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
5.1	22318	1.2	341.7	4159	**F604_341.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
5.5	20602	1.2	315.4	4159	**F604_315.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
5.7	19880	2.2	304.3	7278	**F704_304.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
6.2	18351	2.4	280.9	7278	**F704_280.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
6.2	18945	1.4	280.7	4159	**F603_280.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
6.6	17692	0.9	262.1	2263	**F513_262.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
6.7	17488	1.5	259.1	4159	**F603_259.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
7.3	16189	1.0	239.8	2468	**F513_239.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
7.4	15915	1.6	235.8	4159	**F603_235.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
7.4	15322	2.9	234.6	7278	**F704_234.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	570...573
8.0	14691	1.7	217.6	4159	**F603_217.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
8.0	14637	1.1	216.9	2468	**F513_216.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
8.6	13661	1.2	202.4	2468	**F513_202.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
8.6	13593	1.9	201.4	4159	**F603_201.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
9.4	12548	2.0	185.9	4159	**F603_185.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
10.5	11179	1.4	165.6	2468	**F513_165.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
10.7	10994	2.3	162.9	4159	**F603_162.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
11.6	10149	2.5	150.4	4159	**F603_150.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
12.9	9072	1.1	134.4	1752	**F413_134.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	540...543
13.3	8808	2.9	130.5	4159	**F603_130.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	560...563
13.4	8769	1.8	129.9	2468	**F513_129.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
16.4	7156	1.4	106.0	1752	**F413_106.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	540...543
16.6	7093	2.2	105.1	2468	**F513_105.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
20.5	5729	1.6	84.9	1752	**F413_84.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	540...543
20.9	5619	2.8	83.2	2468	**F513_83.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	550...553
22.1	5324	0.9	78.9	1215	**F313_78.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
25.2	4662	1.1	69.1	1339	**F313_69.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
26.2	4488	2.0	66.5	1752	**F413_66.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	540...543
27.7	4236	1.2	62.8	1339	**F313_62.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
28.9	4067	2.2	60.2	1752	**F413_60.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	540...543
33	3516	1.4	52.1	1339	**F313_52.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
34	3476	2.6	51.5	1752	**F413_51.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	540...543
34	3428	1.0	50.8	833	**F253_50.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
36	3305	2.7	47.9	1752	**F412_47.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	540...543
37	3209	1.6	47.5	1339	**F313_47.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
38	3076	1.1	45.6	798	**F253_45.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
39	3078	1.6	44.6	1339	**F312_44.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
39	3063	1.0	44.4	860	**F252_44.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
43	2808	1.1	40.7	817	**F252_40.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
43	2783	1.8	40.4	1339	**F312_40.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
46	2598	1.9	37.7	1339	**F312_37.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
48	2511	1.3	36.4	810	**F252_36.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533

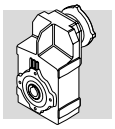


2 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
51	2369	2.1	34.4	1339	**F312_34.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
54	2219	1.5	32.2	800	**F252_32.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
57	2095	1.0	30.4	557	**F202_30.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
58	2077	2.4	30.1	1339	**F312_30.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
58	2071	1.6	30.0	794	**F252_30.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
64	1880	2.6	27.3	1339	**F312_27.3**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
64	1876	1.8	27.2	784	**F252_27.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
67	1788	1.1	25.9	544	**F202_25.9**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
73	1638	2.0	23.8	767	**F252_23.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
75	1596	1.2	23.1	536	**F202_23.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
80	1504	2.2	21.8	757	**F252_21.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
86	1390	1.3	20.2	522	**F202_20.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
93	1283	2.6	18.6	734	**F252_18.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
96	1247	1.4	18.1	511	**F202_18.1**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
105	1146	2.9	16.6	718	**F252_16.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	530...533
118	1020	1.6	14.8	491	**F202_14.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
119	1010	1.0	14.6	393	**F102_14.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	500...503
134	898	0.9	13.0	362	**F102_13.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	500...503
151	796	1.0	11.5	240	**F102_11.5**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	500...503
155	775	1.9	11.2	458	**F202_11.2**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
173	692	1.9	10.0	445	**F202_10.0**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
178	674	1.1	9.8	364	**F102_9.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	500...503
199	602	2.1	8.7	431	**F202_8.7**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
203	592	1.1	8.6	354	**F102_8.6**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	500...503
222	540	2.2	7.8	418	**F202_7.8**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513
235	511	1.2	7.4	342	**F102_7.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	500...503
271	442	2.4	6.4	398	**F202_6.4**	**S3+ME3SB4**	**S3+MX3SB4**	**P90+BE90LA4**	**P90+BX90LA4**	**N140TC**	510...513

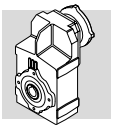
3 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
1.2	136496	0.9	1427.9	11450	**F904_1428**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
1.3	125996	1.0	1318.1	11450	**F904_1318**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
1.4	115184	1.1	1204.9	11450	**F904_1205**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
1.6	106323	1.2	1112.3	11450	**F904_1112**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
1.8	94257	1.3	986.0	11450	**F904_986.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
1.9	87006	1.4	910.2	11450	**F904_910.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
2.3	74030	1.0	774.4	9378	**F804_774.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
2.3	73935	1.7	773.4	11450	**F904_773.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
2.4	68335	1.0	714.9	9378	**F804_714.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
2.4	68248	1.8	714.0	11450	**F904_714.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
2.8	59804	2.1	625.6	11450	**F904_625.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
2.9	58394	1.2	610.9	9378	**F804_610.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
3.0	55203	2.2	577.5	11450	**F904_577.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
3.1	53902	1.3	563.9	9378	**F804_563.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
3.4	48792	0.9	510.4	7278	**F704_510.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
3.5	47373	2.6	495.6	11450	**F904_495.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
3.6	46756	1.5	489.1	9378	**F804_489.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
3.7	45039	1.0	471.2	7278	**F704_471.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
3.8	43729	2.8	457.5	11450	**F904_457.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	586...589
3.9	43159	1.6	451.5	9378	**F804_451.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
4.3	38572	1.1	403.5	7278	**F704_403.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573



3 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
4.6	36626	1.9	383.2	9378	**F804_383.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
4.7	35605	1.2	372.5	7278	**F704_372.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
4.9	33809	2.1	353.7	9378	**F804_353.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
5.7	29093	1.5	304.3	7278	**F704_304.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
5.9	28364	2.5	296.7	9378	**F804_296.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
6.2	26855	1.6	280.9	7278	**F704_280.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
6.2	27724	0.9	280.7	4159	**F603_280.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
6.4	26182	2.7	273.9	9378	**F804_273.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	578...581
6.7	25592	1.0	259.1	4159	**F603_259.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
7.4	23290	1.1	235.8	4159	**F603_235.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
7.4	22423	2.0	234.6	7278	**F704_234.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
8.0	21499	1.2	217.6	4159	**F603_217.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
8.1	20698	2.1	216.5	7278	**F704_216.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
8.7	19892	1.3	201.4	4159	**F603_201.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
8.9	19363	2.3	196.0	7278	**F703_196.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
9.4	18362	1.4	185.9	4159	**F603_185.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
9.6	17873	2.5	180.9	7278	**F703_180.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
10.5	16463	2.7	166.7	7278	**F703_166.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
10.5	16360	1.0	165.6	2468	**F513_165.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	550...553
10.7	16090	1.6	162.9	4159	**F603_162.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
11.3	15197	2.9	153.8	7278	**F703_153.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	570...573
11.6	14852	1.7	150.4	4159	**F603_150.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
13.4	12890	2.0	130.5	4159	**F603_130.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
13.4	12833	1.2	129.9	2468	**F513_129.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	550...553
14.5	11898	2.2	120.5	4159	**F603_120.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
16.4	10508	2.4	106.4	4159	**F603_106.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
16.5	10472	0.9	106.0	1598	**F413_106.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
16.6	10380	1.5	105.1	2468	**F513_105.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	550...553
17.8	9700	2.6	98.2	4159	**F603_98.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	560...563
20.6	8384	1.1	84.9	1752	**F413_84.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
21.0	8222	1.9	83.2	2468	**F513_83.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	550...553
26.2	6568	1.4	66.5	1752	**F413_66.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
26.5	6504	2.2	65.8	2468	**F513_65.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	550...553
29.0	5951	1.5	60.2	1752	**F413_60.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
33	5146	0.9	52.1	1215	**F313_52.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
34	5086	1.7	51.5	1752	**F413_51.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
36	4830	2.8	48.9	2468	**F513_48.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	550...553
36	4836	1.8	47.9	1752	**F412_47.9**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
37	4697	1.1	47.5	1339	**F313_47.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
39	4505	1.1	44.6	1339	**F312_44.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
43	4073	1.2	40.4	1339	**F312_40.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
46	3853	2.3	38.2	1752	**F412_38.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
46	3801	1.3	37.7	1339	**F312_37.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
51	3467	1.4	34.4	1336	**F312_34.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
54	3247	1.0	32.2	745	**F252_32.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
58	3039	1.6	30.1	1310	**F312_30.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
58	3039	3.0	30.1	1752	**F412_30.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	540...543
58	3031	1.1	30.0	679	**F252_30.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
64	2752	1.8	27.3	1287	**F312_27.3**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
64	2745	1.2	27.2	679	**F252_27.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
73	2397	1.4	23.8	677	**F252_23.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
75	2360	2.1	23.4	1252	**F312_23.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
80	2202	1.5	21.8	673	**F252_21.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
83	2130	2.3	21.1	1227	**F312_21.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
94	1878	1.8	18.6	662	**F252_18.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
94	1865	2.6	18.5	1192	**F312_18.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533

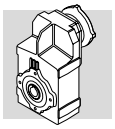


3 hp

n_2	T_2	S	i	R_{n2}						NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
97	1825	1.0	18.1	464	**F202_18.1**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	510...513
104	1695	2.9	16.8	1168	**F312_16.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
105	1677	2.0	16.6	654	**F252_16.6**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
118	1493	1.1	14.8	451	**F202_14.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	510...513
121	1460	2.3	14.5	642	**F252_14.5**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
134	1310	2.5	13.0	632	**F252_13.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
155	1134	1.3	11.2	425	**F202_11.2**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	510...513
174	1012	1.3	10.0	412	**F202_10.0**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	510...513
187	944	2.3	9.4	597	**F252_9.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
200	881	1.4	8.7	404	**F202_8.7**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	510...513
208	847	2.5	8.4	582	**F252_8.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	530...533
223	791	1.5	7.8	396	**F202_7.8**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	510...513
272	647	1.6	6.4	379	**F202_6.4**	**S3+ME3LA4**	**S3+MX3LA4**	**P100+BE100LA4**	**P100+BX100LA4**	**N180TC**	510...513

4 hp

n_2	T_2	S	i	R_{n2}						NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
1.8	129603	1.0	986.0	11450	**F904_986.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
1.9	119634	1.0	910.2	11450	**F904_910.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
2.2	101661	1.2	773.4	11450	**F904_773.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
2.4	93841	1.3	714.0	11450	**F904_714.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
2.8	82230	1.5	625.6	11450	**F904_625.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
3.0	75905	1.6	577.5	11450	**F904_577.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
3.1	74116	1.0	563.9	9378	**F804_563.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
3.5	65138	1.9	495.6	11450	**F904_495.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
3.5	64289	1.1	489.1	9378	**F804_489.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
3.8	60127	2.1	457.5	11450	**F904_457.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
3.8	59344	1.2	451.5	9378	**F804_451.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
4.4	51524	2.4	392.0	11450	**F904_392.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
4.5	50361	1.4	383.2	9378	**F804_383.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
4.7	48957	0.9	372.5	7278	**F704_372.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
4.8	47561	2.6	361.8	11450	**F904_361.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	586...589
4.9	46487	1.5	353.7	9378	**F804_353.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
5.7	40003	1.1	304.3	7278	**F704_304.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
5.8	39000	1.8	296.7	9378	**F804_296.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
6.2	36926	1.2	280.9	7278	**F704_280.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
6.3	36000	2.0	273.9	9378	**F804_273.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
7.4	30831	1.4	234.6	7278	**F704_234.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
7.9	28718	2.5	218.5	9378	**F804_218.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
8.0	28460	1.6	216.5	7278	**F704_216.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
8.6	27352	0.9	201.4	4159	**F603_201.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
8.7	27164	2.6	200.0	9378	**F803_200.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
8.9	26624	1.7	196.0	7278	**F703_196.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
9.3	25248	1.0	185.9	4159	**F603_185.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
9.4	25075	2.8	184.6	9378	**F803_184.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	578...581
9.6	24576	1.8	180.9	7278	**F703_180.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
10.4	22637	2.0	166.7	7278	**F703_166.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
10.7	22123	1.2	162.9	4159	**F603_162.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
11.3	20895	2.1	153.8	7278	**F703_153.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
11.5	20421	1.3	150.4	4159	**F603_150.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
13.0	18058	2.5	133.0	7278	**F703_133.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
13.3	17724	1.4	130.5	4159	**F603_130.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
13.4	17645	0.9	129.9	2468	**F513_129.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	550...553
14.1	16669	2.7	122.7	7278	**F703_122.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
14.4	16360	1.6	120.5	4159	**F603_120.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563

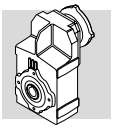


4 hp

n_2	T_2	S	i	R_{n2}						NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
15.8	14888	3.0	109.6	7278	**F703_109.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	570...573
16.3	14449	1.8	106.4	4159	**F603_106.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
16.5	14273	1.1	105.1	2468	**F513_105.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	550...553
17.7	13337	1.9	98.2	4159	**F603_98.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
20.7	11411	2.2	84.0	4159	**F603_84.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
20.8	11306	1.4	83.2	2468	**F513_83.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	550...553
22.4	10534	2.4	77.6	4159	**F603_77.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
25.4	9274	2.8	68.3	4159	**F603_68.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
26.1	9031	1.0	66.5	1660	**F413_66.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	540...543
26.4	8943	1.6	65.8	2468	**F513_65.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	550...553
27.5	8560	3.0	63.0	4159	**F603_63.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	560...563
28.8	8183	1.1	60.2	1752	**F413_60.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	540...543
34	6994	1.3	51.5	1752	**F413_51.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	540...543
35	6642	2.0	48.9	2468	**F513_48.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	550...553
36	6649	1.3	47.9	1752	**F412_47.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	540...543
45	5298	1.7	38.2	1752	**F412_38.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	540...543
46	5227	0.9	37.7	1184	**F312_37.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
47	5152	2.7	37.1	2427	**F512_37.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	550...553
50	4768	1.0	34.4	1196	**F312_34.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
58	4179	1.2	30.1	1188	**F312_30.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
58	4179	2.2	30.1	1709	**F412_30.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	540...543
64	3784	1.3	27.3	1178	**F312_27.3**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
72	3346	2.7	24.1	1641	**F412_24.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	540...543
73	3296	1.0	23.8	638	**F252_23.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
74	3245	1.5	23.4	1157	**F312_23.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
80	3027	1.1	21.8	576	**F252_21.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
82	2929	1.7	21.1	1141	**F312_21.1**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
93	2582	1.3	18.6	582	**F252_18.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
94	2565	1.9	18.5	1118	**F312_18.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
103	2331	2.1	16.8	1100	**F312_16.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
104	2306	1.4	16.6	582	**F252_16.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
120	2007	1.6	14.5	578	**F252_14.5**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
124	1935	2.5	13.9	1061	**F312_13.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
134	1801	1.8	13.0	574	**F252_13.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
136	1766	2.8	12.7	1042	**F312_12.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
154	1559	0.9	11.2	377	**F202_11.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	510...513
163	1474	2.2	10.6	562	**F252_10.6**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
173	1392	1.0	10.0	381	**F202_10.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	510...513
185	1298	1.7	9.4	557	**F252_9.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
192	1251	2.6	9.0	958	**F312_9.0**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
199	1212	1.0	8.7	375	**F202_8.7**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	510...513
207	1165	1.8	8.4	547	**F252_8.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
211	1142	2.8	8.2	937	**F312_8.2**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
221	1087	1.1	7.8	369	**F202_7.8**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	510...513
253	953	2.2	6.9	527	**F252_6.9**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	530...533
271	890	1.2	6.4	357	**F202_6.4**	**S3+ME3LB4**	**S3+MX3LB4**	**P100+BE100LB4**	**P100+BX100LB4**	**N180TC**	510...513

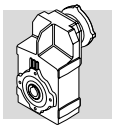
5 hp

n_2	T_2	S	i	R_{n2}						NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
2.2	123226	1.0	773.4	11450	**F904_773.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
2.4	113747	1.1	714.0	11450	**F904_714.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
2.8	99673	1.2	625.6	11450	**F904_625.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
3.0	92006	1.3	577.5	11450	**F904_577.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
3.5	78955	1.6	495.6	11450	**F904_495.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589



5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
3.6	77926	0.9	489.1	9378	**F804_489.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
3.8	72881	1.7	457.5	11450	**F904_457.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
3.9	71932	1.0	451.5	9378	**F804_451.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
4.4	62454	2.0	392.0	11450	**F904_392.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
4.5	61044	1.2	383.2	9378	**F804_383.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
4.8	57649	2.1	361.8	11450	**F904_361.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
4.9	56348	1.3	353.7	9378	**F804_353.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
5.7	48489	0.9	304.3	7278	**F704_304.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
5.9	47273	1.5	296.7	9378	**F804_296.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
6.0	46382	2.7	291.1	11450	**F904_291.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
6.2	44759	1.0	280.9	7278	**F704_280.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
6.4	43637	1.6	273.9	9378	**F804_273.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
6.5	42814	2.9	268.7	11450	**F904_268.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	586...589
7.4	37371	1.2	234.6	7278	**F704_234.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
8.0	34810	2.0	218.5	9378	**F804_218.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
8.0	34497	1.3	216.5	7278	**F704_216.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
8.7	32926	2.2	200.0	9378	**F803_200.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
8.9	32271	1.4	196.0	7278	**F703_196.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
9.4	30393	2.3	184.6	9378	**F803_184.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
9.6	29789	1.5	180.9	7278	**F703_180.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
10.4	27438	1.6	166.7	7278	**F703_166.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
10.7	26816	1.0	162.9	4159	**F603_162.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
10.9	26378	2.7	160.2	9378	**F803_160.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
11.3	25328	1.7	153.8	7278	**F703_153.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
11.6	24753	1.0	150.4	4159	**F603_150.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
11.8	24349	2.9	147.9	9378	**F803_147.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	578...581
13.1	21888	2.0	133.0	7278	**F703_133.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
13.3	21483	1.2	130.5	4159	**F603_130.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
14.2	20205	2.2	122.7	7278	**F703_122.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
14.4	19831	1.3	120.5	4159	**F603_120.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
15.9	18046	2.5	109.6	7278	**F703_109.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
16.4	17514	1.5	106.4	4159	**F603_106.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
16.6	17300	0.9	105.1	2263	**F513_105.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	550...553
17.2	16658	2.7	101.2	7278	**F703_101.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
17.7	16166	1.6	98.2	4159	**F603_98.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
18.8	15228	2.9	92.5	7278	**F703_92.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	570...573
20.7	13832	1.9	84.0	4159	**F603_84.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
20.9	13704	1.1	83.2	2468	**F513_83.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	550...553
22.4	12768	2.0	77.6	4159	**F603_77.6**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
25.5	11241	2.3	68.3	4159	**F603_68.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
26.4	10840	1.3	65.8	2468	**F513_65.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	550...553
27.6	10376	2.5	63.0	4159	**F603_63.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	560...563
28.9	9918	0.9	60.2	1598	**F413_60.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	540...543
34	8477	1.0	51.5	1680	**F413_51.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	540...543
36	8050	1.7	48.9	2386	**F513_48.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	550...553
36	8060	1.1	47.9	1680	**F412_47.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	540...543
46	6421	1.4	38.2	1591	**F412_38.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	540...543
47	6245	2.2	37.1	2304	**F512_37.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	550...553
58	5066	1.0	30.1	1112	**F312_30.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
58	5065	1.8	30.1	1569	**F412_30.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	540...543
58	5052	2.7	30.0	2201	**F512_30.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	550...553
64	4586	1.1	27.3	1091	**F312_27.3**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
72	4056	2.2	24.1	1530	**F412_24.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	540...543
74	3933	1.3	23.4	1038	**F312_23.4**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
82	3550	1.4	21.1	1034	**F312_21.1**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
92	3177	2.8	18.9	1474	**F412_18.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	540...543

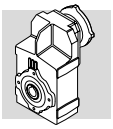


5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
93	3130	1.1	18.6	514	**F252_18.6**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
94	3109	1.6	18.5	1026	**F312_18.5**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
104	2825	1.7	16.8	1015	**F312_16.8**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
105	2795	1.2	16.6	490	**F252_16.6**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
120	2433	1.4	14.5	498	**F252_14.5**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
125	2345	2.1	13.9	993	**F312_13.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
134	2183	1.5	13.0	502	**F252_13.0**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
137	2140	2.3	12.7	978	**F312_12.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
162	1807	2.7	10.7	951	**F312_10.7**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
164	1787	1.8	10.6	504	**F252_10.6**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
186	1573	1.4	9.4	508	**F252_9.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
193	1516	2.1	9.0	910	**F312_9.0**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
207	1412	1.5	8.4	504	**F252_8.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
211	1384	2.3	8.2	896	**F312_8.2**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
250	1169	2.7	6.9	865	**F312_6.9**	**S4+ME4SA4**	**S4+MX4SA4**	**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
253	1155	1.8	6.9	492	**F252_6.9**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	530...533
271	1078	1.0	6.4	330	**F202_6.4**			**P112+BE112M4**	**P112+BX112M4**	**N180TC**	510...513

7.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
3.6	118432	1.0	495.6	11450	**F904_495.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
3.8	109322	1.1	457.5	11450	**F904_457.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
4.5	93680	1.3	392.0	11450	**F904_392.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
4.9	86474	1.4	361.8	11450	**F904_361.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
5.9	70910	1.0	296.7	9378	**F804_296.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
6.0	69572	1.8	291.1	11450	**F904_291.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
6.4	65455	1.1	273.9	9378	**F804_273.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
6.5	64221	1.9	268.7	11450	**F904_268.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
7.6	55298	2.2	231.4	11450	**F904_231.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
8.1	52215	1.4	218.5	9378	**F804_218.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
8.2	51044	2.4	213.6	11450	**F904_213.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
8.8	49389	1.4	200.0	9378	**F803_200.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
9.0	48407	0.9	196.0	6862	**F703_196.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
9.1	47946	2.6	194.2	11450	**F903_194.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
9.5	45590	1.6	184.6	9378	**F803_184.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
9.7	44683	1.0	180.9	7278	**F703_180.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
9.8	44258	2.8	179.2	11450	**F903_179.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	586...589
10.6	41158	1.1	166.7	7278	**F703_166.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
11.0	39568	1.8	160.2	9378	**F803_160.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
11.4	37992	1.2	153.8	7278	**F703_153.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
11.9	36524	1.9	147.9	9378	**F803_147.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
13.2	32833	1.3	133.0	7278	**F703_133.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
13.3	32768	2.2	132.7	9378	**F803_132.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
14.3	30307	1.5	122.7	7278	**F703_122.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
14.4	30247	2.3	122.5	9378	**F803_122.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
15.5	28090	2.5	113.8	9378	**F803_113.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
16.1	27069	1.6	109.6	7278	**F703_109.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
16.5	26271	1.0	106.4	4159	**F603_106.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
16.8	25929	2.7	105.0	9378	**F803_105.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	578...581
17.4	24987	1.8	101.2	7278	**F703_101.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
17.9	24250	1.1	98.2	4159	**F603_98.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563

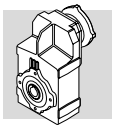


7.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
19.0	22843	1.9	92.5	7278	**F703_92.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
20.6	21085	2.1	85.4	7278	**F703_85.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
20.9	20748	1.2	84.0	4159	**F603_84.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
22.7	19152	1.3	77.6	4159	**F603_77.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
23.9	18165	2.4	73.6	7278	**F703_73.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
25.8	16861	1.5	68.3	4159	**F603_68.3**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
25.9	16768	2.6	67.9	7278	**F703_67.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
27.9	15564	1.6	63.0	4159	**F603_63.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
28.2	15434	2.9	62.5	7278	**F703_62.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	570...573
34	12798	2.0	51.8	4159	**F603_51.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
36	12076	1.1	48.9	2119	**F513_48.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	550...553
37	11814	2.2	47.8	4159	**F603_47.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
42	10393	2.5	42.1	4159	**F603_42.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
45	9593	2.7	38.8	4159	**F603_38.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
46	9632	0.9	38.2	1371	**F412_38.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
47	9368	1.5	37.1	2119	**F512_37.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	550...553
58	7598	1.2	30.1	1356	**F412_30.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
59	7577	1.8	30.0	2047	**F512_30.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	550...553
69	6277	2.5	25.4	4159	**F603_25.4**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
73	6083	1.5	24.1	1356	**F412_24.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
74	6002	2.2	23.8	1967	**F512_23.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	550...553
75	5794	2.7	23.5	4159	**F603_23.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	560...563
83	5326	0.9	21.1	900	**F312_21.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
93	4765	1.9	18.9	1336	**F412_18.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
94	4748	2.6	18.8	1874	**F512_18.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	550...553
95	4664	1.1	18.5	923	**F312_18.5**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
103	4318	2.0	17.1	1321	**F412_17.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
105	4238	1.2	16.8	885	**F312_16.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
120	3690	2.3	14.6	1295	**F412_14.6**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
126	3518	1.4	13.9	861	**F312_13.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
138	3211	1.5	12.7	820	**F312_12.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
163	2717	2.7	10.8	1231	**F412_10.8**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
164	2711	1.8	10.7	799	**F312_10.7**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
193	2305	2.5	9.1	1198	**F412_9.1**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	540...543
195	2274	1.4	9.0	793	**F312_9.0**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
214	2076	1.5	8.2	772	**F312_8.2**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533
253	1753	1.8	6.9	743	**F312_6.9**	**S4+ME4SB4**	**S4+MX4SB4**	**P132+BE132S4**	**P132+BX132SB4**	**N210TC**	530...533

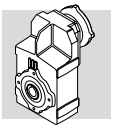
10 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
4.5	128030	1.0	392.0	11450	**F904_392.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
4.9	118181	1.0	361.8	11450	**F904_361.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
6.0	95082	1.3	291.1	11450	**F904_291.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
6.5	87768	1.4	268.7	11450	**F904_268.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
7.6	75574	1.6	231.4	11450	**F904_231.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
8.1	71361	1.0	218.5	9378	**F804_218.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
8.2	69760	1.8	213.6	11450	**F904_213.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
8.8	67499	1.0	200.0	9378	**F803_200.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
9.1	65526	1.9	194.2	11450	**F903_194.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
9.5	62306	1.1	184.6	9378	**F803_184.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
9.8	60485	2.0	179.2	11450	**F903_179.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
10.8	54954	2.3	162.8	11450	**F903_162.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589



10 hp

n_2	T_2	S	i	R_{n2}		IEC		IEC		NEMA	
rpm	lb·in			lbs		IE2	IE3	IE2	IE3		
11.0	54076	1.3	160.2	9378	**F803_160.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
11.7	50727	2.4	150.3	11450	**F903_150.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
11.9	49916	1.4	147.9	9378	**F803_147.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
12.8	46351	2.7	137.3	11450	**F903_137.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
13.2	44871	1.0	133.0	7278	**F703_133.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
13.3	44783	1.6	132.7	9378	**F803_132.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
13.9	42786	2.9	126.8	11450	**F903_126.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	586...589
14.3	41420	1.1	122.7	7278	**F703_122.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
14.4	41338	1.7	122.5	9378	**F803_122.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
15.5	38390	1.8	113.8	9378	**F803_113.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
16.1	36994	1.2	109.6	7278	**F703_109.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
16.8	35437	2.0	105.0	9378	**F803_105.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
17.4	34149	1.3	101.2	7278	**F703_101.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
19.0	31218	1.4	92.5	7278	**F703_92.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
19.1	31153	2.3	92.3	9378	**F803_92.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
20.6	28817	1.5	85.4	7278	**F703_85.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
20.7	28757	2.5	85.2	9378	**F803_85.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
20.9	28355	0.9	84.0	3951	**F603_84.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
22.7	26174	1.0	77.6	4159	**F603_77.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
23.1	25734	2.8	76.3	9378	**F803_76.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
23.9	24825	1.8	73.6	7278	**F703_73.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
25.0	23754	3.0	70.4	9315	**F803_70.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	578...581
25.8	23044	1.1	68.3	4159	**F603_68.3**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
25.9	22916	1.9	67.9	7278	**F703_67.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
27.9	21271	1.2	63.0	4159	**F603_63.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
28.2	21093	2.1	62.5	7278	**F703_62.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
31	19471	2.3	57.7	7257	**F703_57.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
34	17491	1.5	51.8	4159	**F603_51.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
36	16523	2.5	49.0	7029	**F703_49.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
37	16146	1.6	47.8	4159	**F603_47.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
39	15252	2.7	45.2	6904	**F703_45.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	570...573
42	14203	1.8	42.1	4159	**F603_42.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
45	13111	2.0	38.8	4159	**F603_38.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
47	12803	1.1	37.1	1870	**F512_37.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	550...553
55	10828	2.3	32.1	4159	**F603_32.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
59	10356	1.3	30.0	1853	**F512_30.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	550...553
59	9995	2.4	29.6	4159	**F603_29.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
69	8579	1.8	25.4	4159	**F603_25.4**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
73	8314	1.1	24.1	1134	**F412_24.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	540...543
74	8203	1.6	23.8	1812	**F512_23.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	550...553
75	7919	2.0	23.5	4159	**F603_23.5**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
85	6972	2.3	20.7	4159	**F603_20.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
92	6436	2.4	19.1	4159	**F603_19.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
93	6513	1.4	18.9	1161	**F412_18.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	540...543
94	6489	1.9	18.8	1753	**F512_18.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	550...553
103	5901	1.5	17.1	1165	**F412_17.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	540...543
112	5292	3.0	15.7	4159	**F603_15.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	560...563
120	5044	1.6	14.6	1161	**F412_14.6**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	540...543
126	4819	2.4	14.0	1662	**F512_14.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	550...553
126	4807	1.0	13.9	820	**F312_13.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	530...533
138	4388	1.1	12.7	799	**F312_12.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	530...533
158	3830	2.8	11.1	1584	**F512_11.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	550...553
163	3714	2.0	10.8	1132	**F412_10.8**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	540...543
164	3705	1.3	10.7	768	**F312_10.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	530...533
193	3150	1.8	9.1	1115	**F412_9.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	540...543
194	3120	2.8	9.1	1500	**F512_9.1**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	550...553

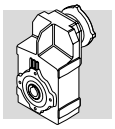


10 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
195	3108	1.0	9.0	776	**F312_9.0**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	530...533
214	2837	1.1	8.2	758	**F312_8.2**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	530...533
253	2396	1.3	6.9	725	**F312_6.9**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	530...533
262	2319	2.3	6.7	1060	**F412_6.7**	**S4+ME4LA4**	**S4+MX4LA4**	**P132+BE132MA4**	**P132+BX132MA4**	**N210TC**	540...543

12.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
6.0	115954	1.1	291.1	11450	**F904_291.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
6.5	107034	1.2	268.7	11450	**F904_268.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
7.6	92163	1.3	231.4	11450	**F904_231.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
8.2	85074	1.5	213.6	11450	**F904_213.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
9.1	79910	1.6	194.2	11450	**F903_194.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
9.5	75983	0.9	184.6	8753	**F803_184.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
9.8	73763	1.7	179.2	11450	**F903_179.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
10.8	67017	1.8	162.8	11450	**F903_162.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
11.0	65946	1.1	160.2	9378	**F803_160.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
11.7	61862	2.0	150.3	11450	**F903_150.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
11.9	60873	1.2	147.9	9378	**F803_147.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
12.8	56526	2.2	137.3	11450	**F903_137.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
13.3	54613	1.3	132.7	9378	**F803_132.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
13.9	52178	2.4	126.8	11450	**F903_126.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
14.4	50412	1.4	122.5	9378	**F803_122.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
15.5	46817	1.5	113.8	9378	**F803_113.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
15.7	46074	2.7	111.9	11450	**F903_111.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
16.1	45115	1.0	109.6	7278	**F703_109.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
16.8	43216	1.6	105.0	9378	**F803_105.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
17.0	42530	2.9	103.3	11450	**F903_103.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	586...589
17.4	41645	1.1	101.2	7278	**F703_101.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
19.0	38071	1.2	92.5	7278	**F703_92.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
19.1	37992	1.9	92.3	9378	**F803_92.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
20.6	35142	1.3	85.4	7278	**F703_85.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
20.7	35069	2.0	85.2	9378	**F803_85.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
23.1	31383	2.3	76.3	9190	**F803_76.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
23.9	30275	1.5	73.6	7278	**F703_73.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
25.0	28969	2.4	70.4	9107	**F803_70.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
25.8	28102	0.9	68.3	3951	**F603_68.3**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
25.9	27946	1.6	67.9	7195	**F703_67.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
27.9	25941	1.0	63.0	4159	**F603_63.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
28.2	25724	1.7	62.5	7112	**F703_62.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
28.6	25295	2.8	61.5	8794	**F803_61.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	578...581
31	23745	1.9	57.7	7008	**F703_57.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
34	21331	1.2	51.8	4159	**F603_51.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
36	20150	2.0	49.0	6821	**F703_49.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
37	19690	1.3	47.8	4159	**F603_47.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
39	18600	2.2	45.2	6717	**F703_45.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	570...573
42	17321	1.5	42.1	4159	**F603_42.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
45	15989	1.6	38.8	4159	**F603_38.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
55	13205	1.9	32.1	4159	**F603_32.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
59	12629	1.1	30.0	1689	**F512_30.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	550...553
59	12189	2.0	29.6	4159	**F603_29.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
69	10462	1.5	25.4	4159	**F603_25.4**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
74	10004	1.3	23.8	1681	**F512_23.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	550...553

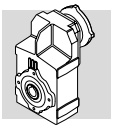


12.5 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
75	9657	1.6	23.5	4159	**F603_23.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
85	8502	1.9	20.7	4159	**F603_20.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
92	7848	2.0	19.1	4159	**F603_19.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
93	7942	1.1	18.9	1014	**F412_18.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	540...543
94	7913	1.6	18.8	1650	**F512_18.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	550...553
103	7196	1.2	17.1	1031	**F412_17.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	540...543
112	6454	2.4	15.7	4159	**F603_15.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
120	6151	1.4	14.6	1045	**F412_14.6**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	540...543
122	5957	2.6	14.5	4159	**F603_14.5**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	560...563
126	5877	2.0	14.0	1584	**F512_14.0**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	550...553
138	5351	0.9	12.7	721	**F312_12.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	530...533
158	4671	2.3	11.1	1522	**F512_11.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	550...553
163	4529	1.6	10.8	1047	**F412_10.8**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	540...543
164	4519	1.1	10.7	754	**F312_10.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	530...533
193	3841	1.5	9.1	1047	**F412_9.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	540...543
194	3805	2.3	9.1	1448	**F512_9.1**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	550...553
214	3460	0.9	8.2	690	**F312_8.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	530...533
245	3025	2.6	7.2	1378	**F512_7.2**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	550...553
253	2922	1.1	6.9	710	**F312_6.9**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	530...533
262	2828	1.9	6.7	1008	**F412_6.7**	**S4+ME4LB4**	**S4+MX5SA4**	**P132+BE132MB4**	**P132+BX160MA4**	**N210TC**	540...543

15 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IE2	IE3	NEMA	
rpm	lb·in			lbs							
6.6	128441	1.0	268.7	11450	**F904_268.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
7.6	110596	1.1	231.4	11450	**F904_231.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
8.3	102088	1.2	213.6	11450	**F904_213.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
9.1	95892	1.3	194.2	11450	**F903_194.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
9.8	88515	1.4	179.2	11450	**F903_179.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
10.8	80421	1.5	162.8	11450	**F903_162.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
11.7	74235	1.7	150.3	11450	**F903_150.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
11.9	73048	1.0	147.9	8961	**F803_147.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
12.9	67831	1.8	137.3	11450	**F903_137.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
13.3	65536	1.1	132.7	9378	**F803_132.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
13.9	62613	2.0	126.8	11450	**F903_126.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
14.4	60495	1.2	122.5	9378	**F803_122.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
15.5	56180	1.3	113.8	9378	**F803_113.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
15.8	55289	2.2	111.9	11450	**F903_111.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
16.8	51859	1.4	105.0	9253	**F803_105.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
17.1	51036	2.4	103.3	11450	**F903_103.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
18.4	47295	2.6	95.8	11450	**F903_95.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
19.1	45685	1.0	92.5	6654	**F703_92.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
19.1	45590	1.6	92.3	9190	**F803_92.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
20.0	43657	2.8	88.4	11450	**F903_88.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	586...589
20.7	42171	1.0	85.4	6904	**F703_85.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
20.7	42083	1.7	85.2	9170	**F803_85.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
23.1	37659	1.9	76.3	8919	**F803_76.3**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
24.0	36330	1.2	73.6	6966	**F703_73.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
25.1	34762	2.0	70.4	8857	**F803_70.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
26.0	33535	1.3	67.9	6883	**F703_67.9**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
28.2	30868	1.4	62.5	6842	**F703_62.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
28.7	30354	2.3	61.5	8565	**F803_61.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
31	28494	1.6	57.7	6758	**F703_57.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573

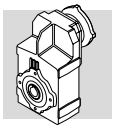


15 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
31	28019	2.5	56.7	8503	**F803_56.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
34	25597	1.0	51.8	4159	**F603_51.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
36	24254	2.9	49.1	8148	**F803_49.1**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	578...581
36	24180	1.7	49.0	6613	**F703_49.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
37	23628	1.1	47.8	4159	**F603_47.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
39	22320	1.8	45.2	6509	**F703_45.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
42	20785	1.2	42.1	4159	**F603_42.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
45	19187	1.3	38.8	4159	**F603_38.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
46	18962	2.2	38.4	6280	**F703_38.4**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
50	17503	2.3	35.4	6155	**F703_35.4**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
55	15846	1.6	32.1	4159	**F603_32.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
59	15155	0.9	30.0	1561	**F512_30.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	550...553
59	14817	2.8	30.0	6031	**F703_30.0**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
60	14627	1.7	29.6	4159	**F603_29.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
64	13677	2.8	27.7	5885	**F703_27.7**			**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
69	12554	1.3	25.4	4159	**F603_25.4**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
72	12129	2.7	24.6	5781	**F703_24.6**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	570...573
74	12005	1.1	23.8	1543	**F512_23.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	550...553
75	11589	1.4	23.5	4159	**F603_23.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
85	10203	1.5	20.7	4159	**F603_20.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
93	9418	1.7	19.1	4159	**F603_19.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
94	9496	1.3	18.8	1541	**F512_18.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	550...553
113	7744	2.0	15.7	4159	**F603_15.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
122	7149	2.2	14.5	4159	**F603_14.5**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
126	7052	1.6	14.0	1504	**F512_14.0**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	550...553
139	6289	2.5	12.7	4034	**F603_12.7**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
150	5805	2.7	11.8	3951	**F603_11.8**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	560...563
159	5605	1.9	11.1	1458	**F512_11.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	550...553
195	4566	1.9	9.1	1393	**F512_9.1**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	550...553
245	3630	2.2	7.2	1335	**F512_7.2**	**S5+ME5SA4**	**S5+MX5SB4**	**P160+BE160M4**	**P160+BX160MB4**	**N250TC**	550...553

20 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
9.1	129454	1.0	194.2	11450	**F903_194.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
9.9	119496	1.0	179.2	11450	**F903_179.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
10.9	108568	1.1	162.8	11450	**F903_162.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
11.8	100217	1.2	150.3	11450	**F903_150.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
12.9	91572	1.4	137.3	11450	**F903_137.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
14.0	84528	1.5	126.8	11450	**F903_126.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
15.6	75843	0.9	113.8	8544	**F803_113.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
15.8	74641	1.7	111.9	11450	**F903_111.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
16.9	70009	1.0	105.0	8711	**F803_105.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
17.1	68899	1.8	103.3	11450	**F903_103.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
18.5	63848	1.9	95.8	11450	**F903_95.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
19.2	61547	1.2	92.3	8607	**F803_92.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
20.0	58937	2.1	88.4	11450	**F903_88.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
20.8	56812	1.2	85.2	8503	**F803_85.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
23.1	51107	2.4	76.7	11450	**F903_76.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
23.2	50840	1.4	76.3	8440	**F803_76.3**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
24.1	49045	0.9	73.6	6509	**F703_73.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
25.0	47175	2.6	70.8	11450	**F903_70.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
25.1	46929	1.5	70.4	8315	**F803_70.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581

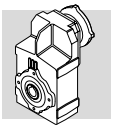


20 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
26.1	45272	1.0	67.9	6634	**F703_67.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
28.3	41672	1.1	62.5	6509	**F703_62.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
28.5	41405	3.0	62.1	11450	**F903_62.1**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	586...589
28.8	40978	1.7	61.5	8065	**F803_61.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
31	38467	1.2	57.7	6176	**F703_57.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
31	37826	1.9	56.7	8044	**F803_56.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
36	32742	2.2	49.1	7877	**F803_49.1**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
36	32643	1.3	49.0	6114	**F703_49.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
39	30224	2.3	45.3	7752	**F803_45.3**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
39	30132	1.4	45.2	6051	**F703_45.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
42	28060	0.9	42.1	3951	**F603_42.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
45	26003	2.5	39.0	7461	**F803_39.0**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
46	25902	1.0	38.8	4159	**F603_38.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
46	25599	1.6	38.4	5947	**F703_38.4**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
49	24003	2.7	36.0	7336	**F803_36.0**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	578...581
50	23630	1.7	35.4	5864	**F703_35.4**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
55	21392	1.2	32.1	4159	**F603_32.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
59	20003	2.1	30.0	5760	**F703_30.0**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
60	19746	1.2	29.6	4159	**F603_29.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
64	18464	2.1	27.7	5635	**F703_27.7**			**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
70	16948	0.9	25.4	3951	**F603_25.4**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
72	16373	2.0	24.6	5511	**F703_24.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
75	15645	1.0	23.5	4159	**F603_23.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
78	15071	2.4	22.6	5448	**F703_22.6**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
85	13912	2.4	20.9	5344	**F703_20.9**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	570...573
86	13774	1.1	20.7	4159	**F603_20.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
93	12714	1.2	19.1	4159	**F603_19.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
94	12819	1.0	18.8	1399	**F512_18.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	550...553
113	10455	1.5	15.7	4076	**F603_15.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
122	9651	1.6	14.5	3993	**F603_14.5**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
127	9520	1.2	14.0	1327	**F512_14.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	550...553
139	8490	1.9	12.7	3909	**F603_12.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
151	7837	2.0	11.8	3826	**F603_11.8**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
159	7567	1.4	11.1	1234	**F512_11.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	550...553
182	6472	2.4	9.7	3681	**F603_9.7**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
196	6165	1.4	9.1	1193	**F512_9.1**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	550...553
198	5974	2.6	9.0	3598	**F603_9.0**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	560...563
246	4900	1.6	7.2	1160	**F512_7.2**	**S5+ME5LA4**	**S5+MX5LA4**	**P160+BE160L4**	**P160+BX160L4**	**N250TC**	550...553

25 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
10.8	134035	0.9	162.8	10929	**F903_162.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
11.7	123725	1.0	150.3	11450	**F903_150.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
12.9	113052	1.1	137.3	11450	**F903_137.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
13.9	104356	1.2	126.8	11450	**F903_126.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
15.8	92149	1.3	111.9	11450	**F903_111.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
17.1	85061	1.5	103.3	11450	**F903_103.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
18.4	78825	1.6	95.8	11450	**F903_95.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
19.1	75983	0.9	92.3	7877	**F803_92.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
20.0	72762	1.7	88.4	11450	**F903_88.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
20.7	70139	1.0	85.2	8023	**F803_85.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
23.0	63095	2.0	76.7	11450	**F903_76.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
23.1	62766	1.1	76.3	7940	**F803_76.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581

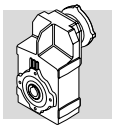


25 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
24.9	58241	2.1	70.8	11450	**F903_70.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
25.1	57937	1.2	70.4	7836	**F803_70.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
28.4	51118	2.4	62.1	11450	**F903_62.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
28.7	50590	1.4	61.5	7794	**F803_61.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
31	47490	0.9	57.7	5968	**F703_57.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
31	47186	2.4	57.3	11450	**F903_57.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
31	46698	1.5	56.7	7669	**F803_56.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
35	41072	2.8	49.9	11450	**F903_49.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	586...589
36	40423	1.8	49.1	7461	**F803_49.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
36	40300	1.0	49.0	5698	**F703_49.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
39	37313	1.9	45.3	7440	**F803_45.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
39	37200	1.1	45.2	5656	**F703_45.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
45	32103	2.0	39.0	7294	**F803_39.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
46	31603	1.3	38.4	5615	**F703_38.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
49	29634	2.2	36.0	7169	**F803_36.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
50	29172	1.4	35.4	5552	**F703_35.4**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
55	26410	0.9	32.1	3847	**F603_32.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
56	25724	2.6	31.3	6961	**F803_31.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
59	24695	1.7	30.0	5511	**F703_30.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
60	24378	1.0	29.6	3993	**F603_29.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
61	23745	2.8	28.8	6877	**F803_28.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
64	22795	1.7	27.7	5407	**F703_27.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
70	20765	2.5	25.2	6690	**F803_25.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	578...581
72	20214	1.6	24.6	5303	**F703_24.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
78	18607	1.9	22.6	5240	**F703_22.6**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
85	17175	1.9	20.9	5178	**F703_20.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
85	17005	0.9	20.7	3847	**F603_20.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
93	15697	1.0	19.1	3993	**F603_19.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
100	14575	2.4	17.7	5032	**F703_17.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
108	13454	2.4	16.3	4949	**F703_16.3**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
113	12907	1.2	15.7	3889	**F603_15.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
122	11914	1.3	14.5	3868	**F603_14.5**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
126	11753	1.0	14.0	1214	**F512_14.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	550...553
127	11430	2.8	13.9	4783	**F703_13.9**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
138	10551	2.8	12.8	4700	**F703_12.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	570...573
139	10481	1.5	12.7	3805	**F603_12.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
150	9675	1.6	11.8	3722	**F603_11.8**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
159	9342	1.1	11.1	1193	**F512_11.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	550...553
182	7990	2.0	9.7	3598	**F603_9.7**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
195	7611	1.2	9.1	1158	**F512_9.1**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	550...553
197	7375	2.1	9.0	3514	**F603_9.0**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	560...563
245	6049	1.3	7.2	1111	**F512_7.2**			**P180+BE180M4**	**P180+BX180M4**	**N280TC**	550...553

30 hp

n_2	T_2	S	i	R_{n2}		IE2	IE3	IEC IE2	IEC IE3	NEMA	
rpm	lb·in			lbs							
12.9	134532	0.9	137.3	10929	**F903_137.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
14.0	124183	1.0	126.8	11408	**F903_126.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
15.8	109657	1.1	111.9	11450	**F903_111.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
17.1	101222	1.2	103.3	11450	**F903_103.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
18.5	93802	1.3	95.8	11450	**F903_95.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
20.0	86587	1.4	88.4	11450	**F903_88.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
23.1	75083	1.7	76.7	11450	**F903_76.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
23.2	74691	0.9	76.3	7273	**F803_76.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
25.0	69307	1.8	70.8	11450	**F903_70.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
25.1	68946	1.0	70.4	7273	**F803_70.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
28.5	60830	2.0	62.1	11450	**F903_62.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
28.8	60202	1.2	61.5	7377	**F803_61.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
31	56151	2.1	57.3	11450	**F903_57.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589



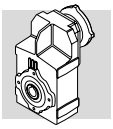
30 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs		IE2	IE3	IEC IE2	IEC IE3	NEMA	
31	55571	1.3	56.7	7294	**F803_56.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
35	48876	2.4	49.9	11325	**F903_49.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
36	48103	1.5	49.1	7106	**F803_49.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
38	45116	2.5	46.1	11137	**F903_46.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
39	44403	1.6	45.3	7148	**F803_45.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
39	44268	0.9	45.2	5427	**F703_45.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
44	39672	2.9	40.5	10888	**F903_40.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	586...589
45	38203	1.7	39.0	6940	**F803_39.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
46	37608	1.1	38.4	5282	**F703_38.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
49	35264	1.9	36.0	6919	**F803_36.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
50	34715	1.2	35.4	5261	**F703_35.4**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
57	30611	2.1	31.3	6794	**F803_31.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
59	29387	1.4	30.0	5220	**F703_30.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
61	28256	2.3	28.8	6669	**F803_28.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
64	27126	1.4	27.7	5157	**F703_27.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
70	24710	2.1	25.2	6523	**F803_25.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
72	24055	1.4	24.6	5095	**F703_24.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
78	22142	1.6	22.6	5053	**F703_22.6**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
80	21576	2.6	22.0	6294	**F803_22.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
85	20439	1.6	20.9	4991	**F703_20.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
87	19917	2.6	20.3	6231	**F803_20.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	578...581
100	17345	2.1	17.7	4866	**F703_17.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
108	16010	2.0	16.3	4804	**F703_16.3**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
113	15359	1.0	15.7	3785	**F603_15.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	560...563
122	14178	1.1	14.5	3743	**F603_14.5**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	560...563
127	13602	2.4	13.9	4658	**F703_13.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
138	12555	2.4	12.8	4596	**F703_12.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
139	12472	1.3	12.7	3681	**F603_12.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	560...563
151	11513	1.4	11.8	3618	**F603_11.8**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	560...563
159	11117	1.0	11.1	1066	**F512_11.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	550...553
163	10628	2.7	10.9	4450	**F703_10.9**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
177	9811	2.7	10.0	4367	**F703_10.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	570...573
182	9508	1.7	9.7	3514	**F603_9.7**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	560...563
196	9057	1.0	9.1	1080	**F512_9.1**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	550...553
198	8777	1.8	9.0	3431	**F603_9.0**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	560...563
246	7199	1.1	7.2	1080	**F512_7.2**			**P180+BE180L4**	**P180+BX180L4**	**N280TC**	550...553

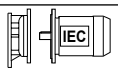
40 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
18.4	127697	1.0	95.8	10763	**F903_95.8**		**P200+IEC200L4**	**N320TC**	586...589
19.9	117874	1.1	88.4	10867	**F903_88.4**		**P200+IEC200L4**	**N320TC**	586...589
23.0	102214	1.2	76.7	10908	**F903_76.7**		**P200+IEC200L4**	**N320TC**	586...589
24.9	94351	1.3	70.8	10846	**F903_70.8**		**P200+IEC200L4**	**N320TC**	586...589
28.3	82811	1.5	62.1	10783	**F903_62.1**		**P200+IEC200L4**	**N320TC**	586...589
31	76441	1.5	57.3	10700	**F903_57.3**		**P200+IEC200L4**	**N320TC**	586...589
31	75651	0.9	56.7	6502	**F803_56.7**		**P200+IEC200L4**	**N320TC**	578...581
35	66537	1.7	49.9	10575	**F903_49.9**		**P200+IEC200L4**	**N320TC**	586...589
36	65485	1.1	49.1	6377	**F803_49.1**		**P200+IEC200L4**	**N320TC**	578...581
38	61419	1.9	46.1	10450	**F903_46.1**		**P200+IEC200L4**	**N320TC**	586...589
39	60448	1.2	45.3	6440	**F803_45.3**		**P200+IEC200L4**	**N320TC**	578...581
43	54007	2.1	40.5	10284	**F903_40.5**		**P200+IEC200L4**	**N320TC**	586...589
45	52007	1.3	39.0	6460	**F803_39.0**		**P200+IEC200L4**	**N320TC**	578...581

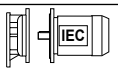
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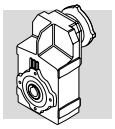
40 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			 IEC	 NEMA	
47	49853	2.2	37.4	10138	**F903_37.4**		**P200+IEC200L4**	**N320TC**	586...589
49	48006	1.4	36.0	6377	**F803_36.0**		**P200+IEC200L4**	**N320TC**	578...581
56	41672	1.6	31.3	6231	**F803_31.3**		**P200+IEC200L4**	**N320TC**	578...581
57	41333	2.6	31.0	9847	**F903_31.0**		**P200+IEC200L4**	**N320TC**	586...589
59	40005	1.0	30.0	4637	**F703_30.0**		**P200+IEC200L4**	**N320TC**	570...573
61	38467	1.7	28.8	6148	**F803_28.8**		**P200+IEC200L4**	**N320TC**	578...581
62	38154	2.6	28.6	9701	**F903_28.6**		**P200+IEC200L4**	**N320TC**	586...589
64	36928	1.0	27.7	4616	**F703_27.7**		**P200+IEC200L4**	**N320TC**	570...573
69	33853	2.9	25.4	9472	**F903_25.4**		**P200+IEC200L4**	**N320TC**	586...589
70	33639	1.5	25.2	6148	**F803_25.2**		**P200+IEC200L4**	**N320TC**	578...581
80	29373	1.9	22.0	6044	**F803_22.0**		**P200+IEC200L4**	**N320TC**	578...581
87	27113	1.9	20.3	5939	**F803_20.3**		**P200+IEC200L4**	**N320TC**	578...581
99	23612	1.5	17.7	4533	**F703_17.7**		**P200+IEC200L4**	**N320TC**	570...573
100	23470	2.4	17.6	5814	**F803_17.6**		**P200+IEC200L4**	**N320TC**	578...581
108	21796	1.5	16.3	4471	**F703_16.3**		**P200+IEC200L4**	**N320TC**	570...573
108	21664	2.4	16.2	5710	**F803_16.2**		**P200+IEC200L4**	**N320TC**	578...581
126	18639	3.0	14.0	5564	**F803_14.0**		**P200+IEC200L4**	**N320TC**	578...581
127	18516	1.7	13.9	4388	**F703_13.9**		**P200+IEC200L4**	**N320TC**	570...573
136	17205	3.0	12.9	5460	**F803_12.9**		**P200+IEC200L4**	**N320TC**	578...581
137	17092	1.7	12.8	4346	**F703_12.8**		**P200+IEC200L4**	**N320TC**	570...573
162	14469	2.0	10.9	4221	**F703_10.9**		**P200+IEC200L4**	**N320TC**	570...573
176	13356	2.0	10.0	4159	**F703_10.0**		**P200+IEC200L4**	**N320TC**	570...573

50 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			 IEC	 NEMA	
23.0	125874	1.0	76.7	10305	**F903_76.7**		**P225+IEC225S4**	**N320TC**	586...589
24.9	116191	1.1	70.8	9909	**F903_70.8**		**P225+IEC225S4**	**N320TC**	586...589
28.4	101980	1.2	62.1	10055	**F903_62.1**		**P225+IEC225S4**	**N320TC**	586...589
31	94136	1.2	57.3	9930	**F903_57.3**		**P225+IEC225S4**	**N320TC**	586...589
35	81939	1.4	49.9	9909	**F903_49.9**		**P225+IEC225S4**	**N320TC**	586...589
38	75636	1.5	46.1	9826	**F903_46.1**		**P225+IEC225S4**	**N320TC**	586...589
39	74440	0.9	45.3	5898	**F803_45.3**		**P225+IEC225S4**	**N320TC**	578...581
44	66509	1.7	40.5	9743	**F903_40.5**		**P225+IEC225S4**	**N320TC**	586...589
45	64046	1.0	39.0	5939	**F803_39.0**		**P225+IEC225S4**	**N320TC**	578...581
47	61393	1.8	37.4	9638	**F903_37.4**		**P225+IEC225S4**	**N320TC**	586...589
49	59119	1.1	36.0	5898	**F803_36.0**		**P225+IEC225S4**	**N320TC**	578...581
56	51319	1.3	31.3	5919	**F803_31.3**		**P225+IEC225S4**	**N320TC**	578...581
57	50901	2.1	31.0	9430	**F903_31.0**		**P225+IEC225S4**	**N320TC**	586...589
61	47371	1.4	28.8	5856	**F803_28.8**		**P225+IEC225S4**	**N320TC**	578...581
62	46986	2.1	28.6	9305	**F903_28.6**		**P225+IEC225S4**	**N320TC**	586...589
70	41689	2.4	25.4	9139	**F903_25.4**		**P225+IEC225S4**	**N320TC**	586...589
70	41426	1.2	25.2	5793	**F803_25.2**		**P225+IEC225S4**	**N320TC**	578...581
79	36590	2.7	22.3	8951	**F903_22.3**		**P225+IEC225S4**	**N320TC**	586...589
80	36172	1.5	22.0	5752	**F803_22.0**		**P225+IEC225S4**	**N320TC**	578...581
86	33775	2.7	20.6	8806	**F903_20.6**		**P225+IEC225S4**	**N320TC**	586...589
87	33390	1.5	20.3	5668	**F803_20.3**		**P225+IEC225S4**	**N320TC**	578...581
100	28903	1.9	17.6	5585	**F803_17.6**		**P225+IEC225S4**	**N320TC**	578...581
109	26679	1.9	16.2	5481	**F803_16.2**		**P225+IEC225S4**	**N320TC**	578...581
126	22954	2.4	14.0	5377	**F803_14.0**		**P225+IEC225S4**	**N320TC**	578...581
137	21188	2.4	12.9	5272	**F803_12.9**		**P225+IEC225S4**	**N320TC**	578...581
158	18393	2.7	11.2	5106	**F803_11.2**		**P225+IEC225S4**	**N320TC**	578...581
171	16978	2.7	10.3	5064	**F803_10.3**		**P225+IEC225S4**	**N320TC**	578...581

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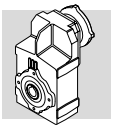
60 hp

n_2 rpm	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
28.5	123705	1.0	62.1	9430	**F903_62.1**		**P225+IEC225M4**		586...589
31	114190	1.0	57.3	9201	**F903_57.3**		**P225+IEC225M4**		586...589
35	99395	1.2	49.9	9305	**F903_49.9**		**P225+IEC225M4**		586...589
38	91749	1.3	46.1	9139	**F903_46.1**		**P225+IEC225M4**		586...589
44	80677	1.4	40.5	9139	**F903_40.5**		**P225+IEC225M4**		586...589
47	74471	1.5	37.4	9076	**F903_37.4**		**P225+IEC225M4**		586...589
49	71713	0.9	36.0	5314	**F803_36.0**		**P225+IEC225M4**		578...581
57	62251	1.1	31.3	5439	**F803_31.3**		**P225+IEC225M4**		578...581
57	61745	1.7	31.0	8972	**F903_31.0**		**P225+IEC225M4**		586...589
61	57463	1.1	28.8	5418	**F803_28.8**		**P225+IEC225M4**		578...581
62	56995	1.7	28.6	8868	**F903_28.6**		**P225+IEC225M4**		586...589
70	50570	1.9	25.4	8743	**F903_25.4**		**P225+IEC225M4**		586...589
70	50251	1.0	25.2	5418	**F803_25.2**		**P225+IEC225M4**		578...581
79	44385	2.2	22.3	8618	**F903_22.3**		**P225+IEC225M4**		586...589
80	43878	1.3	22.0	5418	**F803_22.0**		**P225+IEC225M4**		578...581
86	40971	2.3	20.6	8494	**F903_20.6**		**P225+IEC225M4**		586...589
87	40503	1.3	20.3	5356	**F803_20.3**		**P225+IEC225M4**		578...581
99	35662	2.5	17.9	8306	**F903_17.9**		**P225+IEC225M4**		586...589
101	35060	1.6	17.6	5314	**F803_17.6**		**P225+IEC225M4**		578...581
107	32919	2.6	16.5	8181	**F903_16.5**		**P225+IEC225M4**		586...589
109	32363	1.6	16.2	5252	**F803_16.2**		**P225+IEC225M4**		578...581
122	28947	2.8	14.5	7994	**F903_14.5**		**P225+IEC225M4**		586...589
127	27844	2.0	14.0	5168	**F803_14.0**		**P225+IEC225M4**		578...581
132	26720	2.9	13.4	7869	**F903_13.4**		**P225+IEC225M4**		586...589
137	25702	2.0	12.9	5022	**F803_12.9**		**P225+IEC225M4**		578...581
158	22311	2.2	11.2	5002	**F803_11.2**		**P225+IEC225M4**		578...581
171	20595	2.2	10.3	4897	**F803_10.3**		**P225+IEC225M4**		578...581

75 hp

n_2 min^{-1}	T_2 lb·in	S	i	R_{n2} lbs			IEC	NEMA	
35	121163	1.0	49.9	8473	**F903_49.9**		**P250+IEC250M4**		586...589
38	111843	1.0	46.1	8265	**F903_46.1**		**P250+IEC250M4**		586...589
44	98346	1.2	40.5	8389	**F903_40.5**		**P250+IEC250M4**		586...589
47	90781	1.2	37.4	8369	**F903_37.4**		**P250+IEC250M4**		586...589
57	75268	1.4	31.0	8389	**F903_31.0**		**P250+IEC250M4**		586...589
62	69478	1.4	28.6	8348	**F903_28.6**		**P250+IEC250M4**		586...589
70	61646	1.6	25.4	8265	**F903_25.4**		**P250+IEC250M4**		586...589
79	54106	1.8	22.3	8202	**F903_22.3**		**P250+IEC250M4**		586...589
86	49944	1.9	20.6	8098	**F903_20.6**		**P250+IEC250M4**		586...589
99	43473	2.1	17.9	7973	**F903_17.9**		**P250+IEC250M4**		586...589
107	40129	2.1	16.5	7869	**F903_16.5**		**P250+IEC250M4**		586...589
122	35286	2.3	14.5	7723	**F903_14.5**		**P250+IEC250M4**		586...589
132	32572	2.3	13.4	7619	**F903_13.4**		**P250+IEC250M4**		586...589
159	27006	2.7	11.1	7369	**F903_11.1**		**P250+IEC250M4**		586...589
172	24928	2.6	10.3	7244	**F903_10.3**		**P250+IEC250M4**		586...589

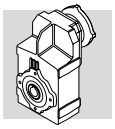
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54 GEARBOX RATING CHARTS

F 10 — 1240 lb·in

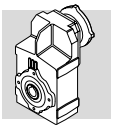
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 10 2_7.4	7.4	243	617	2.5	266	340	162	708	1.9	295	387	506 507
F 10 2_8.6	8.6	209	666	2.3	260	354	140	764	1.8	295	404	
F 10 2_9.8	9.8	184	722	2.2	258	369	122	829	1.7	295	421	
F 10 2_11.5	11.5	157	779	2.0	252	387	104	894	1.6	295	442	
F 10 2_13.0	13.0	138	844	2.0	249	402	92	968	1.5	295	458	
F 10 2_14.6	14.6	123	966	2.0	268	414	82	1108	1.5	295	473	
F 10 2_17.0	17.0	106	1039	1.8	268	433	71	1192	1.4	295	494	
F 10 2_19.3	19.3	93	1104	1.7	268	451	62	1240	1.3	295	515	
F 10 2_22.8	22.8	79	1136	1.5	268	478	53	1240	1.1	295	546	
F 10 2_25.8	25.8	70	1136	1.3	268	503	47	1240	0.96	295	574	
F 10 2_29.6	29.6	61	1168	1.2	268	530	41	1240	0.84	295	605	
F 10 2_33.0	33.0	55	1213	1.1	268	553	36	1240	0.75	295	630	
F 10 2_35.3	35.3	51	1240	1.1	268	567	34	1240	0.70	295	630	
F 10 2_39.6	39.6	45	1240	0.94	268	580	30	1240	0.63	295	630	
F 10 2_44.7	44.7	40	1240	0.83	268	580	26.8	1240	0.56	295	630	
F 10 2_48.7	48.7	37	1240	0.76	268	580	24.6	1240	0.51	295	630	
F 10 2_56.7	56.7	32	1240	0.66	268	580	21.2	1240	0.44	295	630	
F 10 2_63.0	63.0	28.6	1240	0.59	268	589	19.0	1240	0.39	295	630	
F 10 2_71.1	71.1	25.3	1240	0.52	268	618	16.9	1240	0.35	295	630	
F 10 2_81.3	81.3	22.1	1240	0.46	268	630	14.8	1240	0.31	295	630	
F 10 2_91.5	91.5	19.7	1240	0.41	268	630	13.1	1240	0.27	295	630	
F 10 2_106.0	106.0	17.0	1240	0.35	268	630	11.3	1240	0.23	295	630	
F 10 2_127.1	127.1	14.2	1240	0.29	268	630	9.4	1240	0.20	295	630	



F 20 — 2200 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 20 2_6.4	6.4	281	1059	5.0	—	355	188	1208	3.8	—	408	
F 20 2_7.8	7.8	231	1173	4.5	—	375	154	1338	3.4	—	432	
F 20 2_8.7	8.7	207	1262	4.4	—	386	138	1441	3.3	—	444	
F 20 2_10.0	10.0	180	1344	4.0	—	402	120	1533	3.1	—	463	
F 20 2_11.2	11.2	161	1441	3.9	—	414	107	1645	2.9	—	477	
F 20 2_14.8	14.8	122	1653	3.4	210	456	81	1887	2.6	241	525	
F 20 2_18.1	18.1	99	1734	2.9	212	491	66	1980	2.2	244	565	
F 20 2_20.2	20.2	89	1816	2.7	222	507	59	2072	2.1	256	584	
F 20 2_23.1	23.1	78	1914	2.5	208	530	52	2184	1.9	239	610	
F 20 2_25.9	25.9	69	1954	2.3	228	552	46	2200	1.7	263	636	
F 20 2_30.4	30.4	59	2036	2.0	218	585	39	2200	1.5	251	674	
F 20 2_33.1	33.1	54	2036	1.8	233	606	36	2200	1.3	268	698	
F 20 2_37.9	37.9	47	2036	1.6	235	641	32	2200	1.2	270	738	
F 20 2_41.8	41.8	43	2036	1.5	253	668	28.7	2200	1.1	292	769	
F 20 2_44.8	44.8	40	2080	1.4	249	686	26.8	2200	0.99	287	791	
F 20 2_50.7	50.7	36	2107	1.2	274	722	23.7	2200	0.87	315	831	
F 20 2_56.7	56.7	32	2200	1.2	283	755	21.2	2200	0.78	325	869	
F 20 2_61.9	61.9	29.1	2200	1.1	285	781	19.4	2200	0.72	327	899	
F 20 2_69.1	69.1	26.0	2200	0.96	285	814	17.4	2200	0.64	327	899	516 517
F 20 2_76.8	76.8	23.4	2200	0.87	287	825	15.6	2200	0.58	330	900	
F 20 2_90.4	90.4	19.9	2200	0.74	289	825	13.3	2200	0.49	332	900	
F 20 2_101.6	101.6	17.7	2200	0.65	289	825	11.8	2200	0.44	332	900	
F 20 2_114.3	114.3	15.7	2200	0.58	291	825	10.5	2200	0.39	335	900	
F 20 2_132.2	132.2	13.6	2200	0.50	291	875	9.1	2200	0.34	335	900	
F 20 3_156.3	156.3	11.5	2200	0.43	270	900	7.7	2200	0.29	295	900	
F 20 3_172.6	172.6	10.4	2200	0.39	270	900	7.0	2200	0.26	295	900	
F 20 3_184.9	184.9	9.7	2200	0.37	272	900	6.5	2200	0.24	295	900	
F 20 3_209.3	209.3	8.6	2200	0.32	279	900	5.7	2200	0.22	295	900	
F 20 3_234.0	234.0	7.7	2200	0.29	286	900	5.1	2200	0.19	295	900	
F 20 3_255.3	255.3	7.1	2200	0.27	288	900	4.7	2200	0.18	295	900	
F 20 3_285.2	285.2	6.3	2200	0.24	295	900	4.2	2200	0.16	295	900	
F 20 3_316.9	316.9	5.7	2200	0.21	295	900	3.8	2200	0.14	295	900	
F 20 3_372.9	372.9	4.8	2200	0.18	295	900	3.2	2200	0.12	295	900	
F 20 3_419.3	419.3	4.3	2200	0.16	295	900	2.9	2200	0.11	295	900	
F 20 3_471.7	471.7	3.8	2200	0.14	295	900	2.5	2200	0.10	295	900	
F 20 3_545.3	545.3	3.3	2200	0.12	295	900	2.2	2200	0.08	295	900	

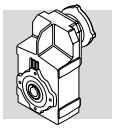
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 25 — 3540 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 25 2_6.9	6.9	261	1609	7.0	—	477	174	1821	5.3	—	548	
F 25 2_8.4	8.4	214	1774	6.3	—	504	143	2008	4.8	—	579	
F 25 2_9.4	9.4	191	1856	5.9	—	522	128	2101	4.5	—	600	
F 25 2_10.6	10.6	170	2516	7.1	—	477	113	2848	5.4	—	548	
F 25 2_13.0	13.0	138	2640	6.1	—	516	92	2988	4.6	—	593	
F 25 2_14.5	14.5	124	2722	5.6	—	537	83	3082	4.3	—	617	
F 25 2_16.6	16.6	108	2805	5.1	—	568	72	3175	3.8	—	652	
F 25 2_18.6	18.6	97	2887	4.7	—	590	65	3268	3.5	—	678	
F 25 2_21.8	21.8	83	2928	4.0	—	636	55	3315	3.0	60	730	
F 25 2_23.8	23.8	76	2970	3.7	62	658	50	3362	2.8	72	756	
F 25 2_27.2	27.2	66	3011	3.3	66	699	44	3408	2.5	76	803	
F 25 2_30.0	30.0	60	3052	3.1	85	728	40	3455	2.3	98	836	
F 25 2_32.2	32.2	56	3052	2.8	85	753	37	3455	2.1	98	865	
F 25 2_36.4	36.4	49	3052	2.5	125	798	33	3455	1.9	143	917	
F 25 2_40.7	40.7	44	3052	2.3	150	839	29.5	3319	1.6	172	964	
F 25 2_44.4	44.4	41	3052	2.1	162	874	27.0	3408	1.5	172	1004	
F 25 3_45.6	45.6	39	3300	2.2	380	829	26.3	3540	1.6	437	952	
F 25 3_50.8	50.8	35	3300	2.0	384	874	23.6	3540	1.4	442	1004	
F 25 3_58.3	58.3	31	3300	1.7	386	932	20.6	3540	1.2	444	1070	
F 25 3_65.3	65.3	27.6	3319	1.6	388	983	18.4	3540	1.1	447	1129	
F 25 3_76.6	76.6	23.5	3496	1.4	391	1057	15.7	3540	0.95	449	1214	
F 25 3_83.4	83.4	21.6	3540	1.3	391	1096	14.4	3540	0.87	449	1259	
F 25 3_95.5	95.5	18.8	3540	1.1	393	1164	12.6	3540	0.76	452	1337	526
F 25 3_105.4	105.4	17.1	3540	1.0	393	1216	11.4	3540	0.69	452	1396	527
F 25 3_113.0	113.0	15.9	3540	0.96	393	1253	10.6	3540	0.64	452	1439	
F 25 3_127.8	127.8	14.1	3540	0.85	395	1323	9.4	3540	0.57	454	1465	
F 25 3_143.0	143.0	12.6	3540	0.76	397	1337	8.4	3540	0.51	456	1465	
F 25 3_155.9	155.9	11.5	3540	0.70	397	1337	7.7	3540	0.46	456	1465	
F 25 3_174.2	174.2	10.3	3540	0.62	397	1337	6.9	3540	0.42	456	1465	
F 25 3_193.6	193.6	9.3	3540	0.56	397	1337	6.2	3540	0.37	456	1465	
F 25 3_227.8	227.8	7.9	3540	0.48	399	1376	5.3	3540	0.32	459	1465	
F 25 3_256.1	256.1	7.0	3540	0.42	399	1446	4.7	3540	0.28	459	1465	
F 25 3_288.1	288.1	6.2	3540	0.38	399	1465	4.2	3540	0.25	459	1465	
F 25 3_333.1	333.1	5.4	3540	0.33	401	1465	3.6	3540	0.22	461	1465	
F 25 4_393.9	393.9	4.6	3540	0.29	286	1465	3.0	3540	0.19	295	1465	
F 25 4_434.9	434.9	4.1	3540	0.26	290	1465	2.8	3540	0.17	295	1465	
F 25 4_466.0	466.0	3.9	3540	0.24	295	1465	2.6	3540	0.16	295	1465	
F 25 4_527.3	527.3	3.4	3540	0.21	295	1465	2.3	3540	0.14	295	1465	
F 25 4_589.7	589.7	3.1	3540	0.19	295	1465	2.0	3540	0.13	295	1465	
F 25 4_643.3	643.3	2.8	3540	0.17	295	1465	1.9	3540	0.12	295	1465	
F 25 4_718.7	718.7	2.5	3540	0.16	295	1465	1.7	3540	0.10	295	1465	
F 25 4_798.5	798.5	2.3	3540	0.14	295	1465	1.5	3540	0.09	295	1465	
F 25 4_939.8	939.8	1.9	3540	0.12	295	1465	1.3	3540	0.08	295	1465	
F 25 4_1057	1057	1.7	3540	0.11	295	1465	1.1	3540	0.07	295	1465	
F 25 4_1189	1189	1.5	3540	0.09	295	1465	1.0	3540	0.06	295	1465	
F 25 4_1374	1374	1.3	3540	0.08	295	1465	0.9	3540	0.05	295	1465	

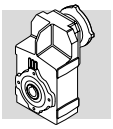
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 31 — 5310 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 31 2_6.9	6.9	261	2951	12.9	—	713	174	3343	9.7	—	821	
F 31 2_8.2	8.2	220	3074	11.3	—	760	146	3452	8.4	—	875	
F 31 2_9.0	9.0	200	3156	10.5	—	785	133	3452	7.7	94	904	
F 31 2_10.7	10.7	168	4303	12.1	102	756	112	4875	9.1	120	870	
F 31 2_12.7	12.7	142	4549	10.8	100	799	94	5153	8.1	118	920	
F 31 2_13.9	13.9	129	4672	10.1	133	826	86	5292	7.6	157	951	
F 31 2_16.8	16.8	107	4877	8.7	139	888	71	5310	6.3	164	1022	
F 31 2_18.5	18.5	97	4918	8.0	186	929	65	5310	5.8	219	1070	
F 31 2_21.1	21.1	85	4918	7.0	211	993	57	5310	5.0	248	1143	
F 31 2_23.4	23.4	77	4918	6.3	260	1042	51	5310	4.5	306	1200	
F 31 2_27.3	27.3	66	4918	5.4	283	1122	44	5310	3.9	333	1293	
F 31 2_30.1	30.1	60	4918	4.9	326	1176	40	5310	3.5	383	1354	
F 31 2_34.4	34.4	52	4918	4.3	340	1250	35	5310	3.1	400	1440	
F 31 2_37.7	37.7	48	4918	3.9	369	1304	32	5310	2.8	434	1465	
F 31 2_40.4	40.4	45	4918	3.7	369	1339	29.7	5310	2.6	434	1465	
F 31 2_44.6	44.6	40	4918	3.3	395	1339	26.9	5310	2.4	465	1465	
F 31 3_47.5	47.5	38	4754	3.1	474	1339	25.3	5310	2.3	495	1465	
F 31 3_52.1	52.1	35	4918	2.9	477	1339	23.0	5310	2.1	495	1465	
F 31 3_62.8	62.8	28.7	4918	2.4	477	1358	19.1	5310	1.7	495	1465	
F 31 3_69.1	69.1	26.0	4918	2.2	479	1405	17.4	5310	1.6	495	1465	
F 31 3_78.9	78.9	22.8	4918	1.9	477	1465	15.2	5310	1.4	495	1465	
F 31 3_87.4	87.4	20.6	5045	1.8	479	1465	13.7	5310	1.2	495	1465	
F 31 3_101.9	101.9	17.7	5266	1.6	479	1465	11.8	5310	1.1	495	1465	
F 31 3_112.5	112.5	16.0	5310	1.4	479	1465	10.7	5310	0.97	495	1465	536
F 31 3_128.4	128.4	14.0	5310	1.3	481	1465	9.3	5310	0.85	495	1465	537
F 31 3_140.7	140.7	12.8	5310	1.2	481	1465	8.5	5310	0.77	495	1465	
F 31 3_150.8	150.8	11.9	5310	1.1	481	1465	8.0	5310	0.72	495	1465	
F 31 3_166.8	166.8	10.8	5310	0.98	483	1465	7.2	5310	0.65	495	1465	
F 31 3_185.4	185.4	9.7	5310	0.88	486	1465	6.5	5310	0.59	495	1465	
F 31 3_202.3	202.3	8.9	5310	0.81	486	1465	5.9	5310	0.54	495	1465	
F 31 3_228.2	228.2	7.9	5310	0.71	486	1465	5.3	5310	0.48	495	1465	
F 31 3_253.6	253.6	7.1	5310	0.64	486	1465	4.7	5310	0.43	495	1465	
F 31 3_293.8	293.8	6.1	5310	0.55	488	1465	4.1	5310	0.37	495	1465	
F 31 3_332.8	332.8	5.4	5310	0.49	488	1465	3.6	5310	0.33	495	1465	
F 31 3_374.4	374.4	4.8	5310	0.44	488	1465	3.2	5310	0.29	495	1465	
F 31 4_418.9	418.9	4.3	5310	0.40	277	1465	2.9	5310	0.27	295	1465	
F 31 4_462.6	462.6	3.9	5310	0.36	281	1465	2.6	5310	0.24	295	1465	
F 31 4_527.8	527.8	3.4	5310	0.32	286	1465	2.3	5310	0.21	295	1465	
F 31 4_578.6	578.6	3.1	5310	0.29	290	1465	2.1	5310	0.19	295	1465	
F 31 4_619.9	619.9	2.9	5310	0.27	295	1465	1.9	5310	0.18	295	1465	
F 31 4_685.6	685.6	2.6	5310	0.25	295	1465	1.8	5310	0.16	295	1465	
F 31 4_762.3	762.3	2.4	5310	0.22	295	1465	1.6	5310	0.15	295	1465	
F 31 4_831.6	831.6	2.2	5310	0.20	295	1465	1.4	5310	0.14	295	1465	
F 31 4_938.2	938.2	1.9	5310	0.18	295	1465	1.3	5310	0.12	295	1465	
F 31 4_1042	1042	1.7	5310	0.16	295	1465	1.2	5310	0.11	295	1465	
F 31 4_1208	1208	1.5	5310	0.14	295	1465	0.99	5310	0.09	295	1465	
F 31 4_1368	1368	1.3	5310	0.12	295	1465	0.88	5310	0.08	295	1465	
F 31 4_1539	1539	1.2	5310	0.11	295	1465	0.78	5310	0.07	295	1465	

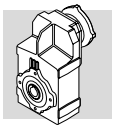
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 41 — 9735 lb·in

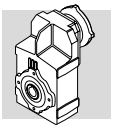
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 41 2_6.7	6.7	269	4754	21.3	—	884	179	5375	16.1	—	1018	
F 41 2_9.1	9.1	198	5327	17.6	—	975	132	6024	13.3	—	1123	
F 41 2_10.8	10.8	167	7377	20.5	—	860	111	8340	15.5	—	990	
F 41 2_14.6	14.6	123	8319	17.1	—	940	82	9406	12.9	—	1083	
F 41 2_17.1	17.1	105	8647	15.2	—	1000	70	9777	11.5	—	1151	
F 41 2_18.9	18.9	95	8893	14.1	104	1037	63	9735	10.3	119	1194	
F 41 2_24.1	24.1	75	9016	11.2	174	1181	50	9735	8.1	201	1360	
F 41 2_30.1	30.1	60	9016	9.0	262	1334	40	9735	6.5	301	1536	
F 41 2_38.2	38.2	47	9016	7.1	332	1511	31	9735	5.1	382	1740	
F 41 2_47.9	47.9	38	8770	5.5	440	1715	25.1	9471	4.0	507	1915	
F 41 3_51.5	51.5	35	8893	5.3	727	1752	23.3	9735	3.9	790	1915	
F 41 3_60.2	60.2	29.9	9016	4.6	727	1752	19.9	9735	3.3	790	1915	
F 41 3_66.5	66.5	27.1	9016	4.2	727	1752	18.0	9735	3.0	790	1915	
F 41 3_84.9	84.9	21.2	9426	3.4	727	1774	14.1	9735	2.3	790	1915	
F 41 3_106.0	106.0	17.0	9735	2.8	727	1915	11.3	9735	1.9	790	1915	
F 41 3_134.4	134.4	13.4	9735	2.2	727	1915	8.9	9735	1.5	790	1915	
F 41 3_168.7	168.7	10.7	9735	1.8	727	1915	7.1	9735	1.2	790	1915	546
F 41 3_180.7	180.7	10.0	9735	1.7	727	1915	6.6	9735	1.1	790	1915	557
F 41 3_198.9	198.9	9.0	9735	1.5	727	1915	6.0	9735	1.0	790	1915	
F 41 3_220.1	220.1	8.2	9735	1.4	727	1915	5.5	9735	0.91	790	1915	
F 41 3_240.1	240.1	7.5	9735	1.2	727	1915	5.0	9735	0.83	790	1915	
F 41 3_266.9	266.9	6.7	9735	1.1	727	1915	4.5	9735	0.75	790	1915	
F 41 3_296.6	296.6	6.1	9735	1.0	727	1915	4.0	9735	0.67	790	1915	
F 41 3_344.8	344.8	5.2	9735	0.87	727	1915	3.5	9735	0.58	790	1915	
F 41 4_433.7	433.7	4.2	9735	0.71	397	1915	2.8	9735	0.47	456	1915	
F 41 4_549.8	549.8	3.3	9735	0.56	403	1915	2.2	9735	0.37	464	1915	
F 41 4_690.1	690.1	2.6	9735	0.45	409	1915	1.7	9735	0.30	471	1915	
F 41 4_739.4	739.4	2.4	9735	0.42	411	1915	1.6	9735	0.28	473	1915	
F 41 4_813.8	813.8	2.2	9735	0.38	413	1915	1.5	9735	0.25	476	1915	
F 41 4_900.5	900.5	2.0	9735	0.34	415	1915	1.3	9735	0.23	478	1915	
F 41 4_982.4	982.4	1.8	9735	0.31	415	1915	1.2	9735	0.21	478	1915	
F 41 4_1092	1092	1.6	9735	0.28	418	1915	1.1	9735	0.19	480	1915	
F 41 4_1213	1213	1.5	9735	0.25	420	1915	0.99	9735	0.17	483	1915	
F 41 4_1411	1411	1.3	9735	0.22	420	1915	0.85	9735	0.15	483	1915	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 51 — 15930 lb·in

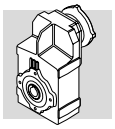
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 51 2_7.2	7.2	250	7870	33	294	1082	167	8975	25	342	1255	
F 51 2_9.1	9.1	198	8879	29	269	1142	132	9736	21	314	1324	
F 51 2_11.1	11.1	162	10736	29	410	1172	108	12243	22	478	1360	
F 51 2_14.0	14.0	129	11463	25	438	1275	86	13071	18.7	511	1479	
F 51 2_18.8	18.8	96	12472	20	457	1419	64	14222	15.2	532	1646	
F 51 2_23.8	23.8	76	13319	16.8	467	1547	50	15047	12.7	544	1794	
F 51 2_30.0	30.0	60	13723	13.7	475	1716	40	15047	10.0	554	1989	
F 51 2_37.1	37.1	49	13723	11.1	491	1905	32	15047	8.1	573	2209	
F 51 3_48.9	48.9	37	13321	8.4	675	2078	24.5	15930	6.7	790	2409	
F 51 3_65.8	65.8	27.4	14604	6.8	689	2386	18.2	15930	5.0	790	2700	
F 51 3_83.2	83.2	21.6	15666	5.8	701	2468	14.4	15930	3.9	790	2700	
F 51 3_105.1	105.1	17.1	15930	4.7	706	2468	11.4	15930	3.1	790	2700	
F 51 3_129.9	129.9	13.9	15930	3.8	712	2608	9.2	15930	2.5	790	2700	
F 51 3_165.6	165.6	10.9	15930	3.0	714	2700	7.2	15930	2.0	790	2700	
F 51 3_202.4	202.4	8.9	15930	2.4	714	2700	5.9	15930	1.6	790	2700	
F 51 3_216.9	216.9	8.3	15930	2.3	714	2700	5.5	15930	1.5	790	2700	566 567
F 51 3_239.8	239.8	7.5	15930	2.0	714	2700	5.0	15930	1.4	790	2700	
F 51 3_262.1	262.1	6.9	15930	1.9	714	2700	4.6	15930	1.2	790	2700	
F 51 3_285.9	285.9	6.3	15930	1.7	714	2700	4.2	15930	1.1	790	2700	
F 51 3_317.3	317.3	5.7	15930	1.5	714	2700	3.8	15930	1.0	790	2700	
F 51 3_352.5	352.5	5.1	15930	1.4	714	2700	3.4	15930	0.92	790	2700	
F 51 4_429.1	429.1	4.2	15930	1.2	449	2700	2.8	15930	0.79	495	2700	
F 51 4_530.5	530.5	3.4	15930	0.95	449	2700	2.3	15930	0.64	495	2700	
F 51 4_676.3	676.3	2.7	15930	0.75	454	2700	1.8	15930	0.50	495	2700	
F 51 4_826.4	826.4	2.2	15930	0.61	459	2700	1.5	15930	0.41	495	2700	
F 51 4_885.5	885.5	2.0	15930	0.57	461	2700	1.4	15930	0.38	495	2700	
F 51 4_979.4	979.4	1.8	15930	0.52	463	2700	1.2	15930	0.34	495	2700	
F 51 4_1070	1070	1.7	15930	0.47	465	2700	1.1	15930	0.31	495	2700	
F 51 4_1168	1168	1.5	15930	0.43	468	2700	1.0	15930	0.29	495	2700	
F 51 4_1296	1296	1.4	15930	0.39	470	2700	0.93	15930	0.26	495	2700	
F 51 4_1439	1439	1.3	15930	0.35	472	2700	0.83	15930	0.23	495	2700	



F 60 — 25670 lb·in

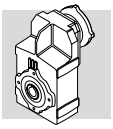
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 60 3_9.0	9.0	200	9610	32.8	—	3431	133	10842	24.7	—	3873	
F 60 3_9.7	9.7	186	10356	32.8	—	3473	124	11683	24.6	—	3920	
F 60 3_11.8	11.8	153	10770	28.0	—	3701	102	12151	21.1	—	4178	
F 60 3_12.7	12.7	142	11599	28.0	—	3743	94	13086	21.1	—	4225	
F 60 3_14.5	14.5	124	11599	24.6	—	3951	83	13086	18.5	—	4459	
F 60 3_15.7	15.7	115	12427	24.3	—	3993	76	14020	18.3	—	4500	
F 60 3_19.1	19.1	94	12427	20.0	—	4159	63	14020	15.0	—	4500	
F 60 3_20.7	20.7	87	13587	20.1	—	4159	58	15329	15.2	—	4500	
F 60 3_23.5	23.5	77	13173	17.2	—	4159	51	14861	12.9	—	4500	
F 60 3_25.4	25.4	71	14250	17.2	—	4159	47	16076	13.0	—	4500	
F 60 3_29.6	29.6	61	24341	25.2	546	4159	41	25670	17.7	628	4500	
F 60 3_32.1	32.1	56	24783	23.7	677	4159	37	25670	16.4	779	4500	
F 60 3_38.8	38.8	46	25670	20.3	723	4159	31	25670	13.5	832	4500	
F 60 3_42.1	42.1	43	25670	18.7	773	4159	28.5	25670	12.5	889	4500	
F 60 3_47.8	47.8	38	25670	16.5	775	4294	25.1	25670	11.0	891	4500	
F 60 3_51.8	51.8	35	25670	15.2	796	4384	23.2	25670	10.1	915	4500	
F 60 3_63.0	63.0	28.6	25670	12.5	800	4500	19.0	25670	8.3	920	4500	
F 60 3_68.3	68.3	26.4	25670	11.5	818	4500	17.6	25670	7.7	942	4500	
F 60 3_77.6	77.6	23.2	25670	10.2	814	4500	15.5	25670	6.8	937	4500	
F 60 3_84.0	84.0	21.4	25670	9.4	833	4500	14.3	25670	6.3	958	4500	
F 60 3_98.2	98.2	18.3	25670	8.0	827	4500	12.2	25670	5.3	951	4500	
F 60 3_106.4	106.4	16.9	25670	7.4	845	4500	11.3	25670	4.9	973	4500	
F 60 3_120.5	120.5	14.9	25670	6.5	837	4500	10.0	25670	4.4	963	4500	
F 60 3_130.5	130.5	13.8	25670	6.0	854	4500	9.2	25670	4.0	982	4500	566 567
F 60 3_150.4	150.4	12.0	25670	5.2	843	4500	8.0	25670	3.5	970	4500	
F 60 3_162.9	162.9	11.0	25670	4.8	860	4500	7.4	25670	3.2	989	4500	
F 60 3_185.9	185.9	9.7	25670	4.2	852	4500	6.5	25670	2.8	980	4500	
F 60 3_201.4	201.4	8.9	25670	3.9	868	4500	6.0	25670	2.6	999	4500	
F 60 3_217.6	217.6	8.3	25670	3.6	856	4500	5.5	25670	2.4	985	4500	
F 60 3_235.8	235.8	7.6	25670	3.3	870	4500	5.1	25670	2.2	1001	4500	
F 60 3_259.1	259.1	6.9	25670	3.0	858	4500	4.6	25670	2.0	987	4500	
F 60 3_280.7	280.7	6.4	25670	2.8	872	4500	4.3	25670	1.9	1004	4500	
F 60 4_315.4	315.4	5.7	25670	2.6	790	4500	3.8	25670	1.7	790	4500	
F 60 4_341.7	341.7	5.3	25670	2.4	790	4500	3.5	25670	1.6	790	4500	
F 60 4_399.3	399.3	4.5	25670	2.0	790	4500	3.0	25670	1.4	790	4500	
F 60 4_432.6	432.6	4.2	25670	1.9	790	4500	2.8	25670	1.3	790	4500	
F 60 4_489.8	489.8	3.7	25670	1.7	790	4500	2.4	25670	1.1	790	4500	
F 60 4_530.7	530.7	3.4	25670	1.5	790	4500	2.3	25670	1.0	790	4500	
F 60 4_611.4	611.4	2.9	25670	1.3	790	4500	2.0	25670	0.89	790	4500	
F 60 4_662.4	662.4	2.7	25670	1.2	790	4500	1.8	25670	0.82	790	4500	
F 60 4_756.0	756.0	2.4	25670	1.1	790	4500	1.6	25670	0.72	790	4500	
F 60 4_819.0	819.0	2.2	25670	0.99	790	4500	1.5	25670	0.66	790	4500	
F 60 4_885.1	885.1	2.0	25670	0.92	790	4500	1.4	25670	0.61	790	4500	
F 60 4_958.9	958.9	1.9	25670	0.85	790	4500	1.3	25670	0.57	790	4500	
F 60 4_1054	1054	1.7	25670	0.77	790	4500	1.1	25670	0.51	790	4500	
F 60 4_1141	1141	1.6	25670	0.71	790	4500	1.1	25670	0.48	790	4500	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 70 — 44250 lb·in

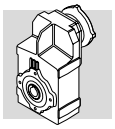
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 70 3_10.0	10.0	180	26256	81	361	3785	120	28324	58	412	4284	
F 70 3_10.9	10.9	165	28307	80	379	3764	110	30536	57	433	4260	
F 70 3_12.8	12.8	141	29538	71	193	4013	94	33394	53	207	4543	
F 70 3_13.9	13.9	129	31999	71	182	3972	86	36176	53	207	4496	
F 70 3_16.3	16.3	110	32820	62	146	4263	74	35404	44	167	4825	
F 70 3_17.7	17.7	102	35692	62	130	4201	68	38502	45	148	4755	
F 70 3_20.9	20.9	86	32820	48	431	4720	57	35404	35	492	5343	
F 70 3_22.6	22.6	80	35692	48	414	4679	53	38502	35	473	5296	
F 70 3_24.6	24.6	73	32820	41	517	5032	49	35404	29	591	5696	
F 70 3_27.7	27.7	65	38153	42	1321	5012	43	43133	32	1509	5673	
F 70 3_30.0	30.0	60	41025	42	1323	4970	40	44250	30	1511	5625	
F 70 3_35.4	35.4	51	41025	36	1328	5386	34	44250	26	1516	6096	
F 70 3_38.4	38.4	47	41025	33	1348	5511	31	44250	24	1539	6237	
F 70 3_45.2	45.2	40	41025	28	1359	5968	26.5	44250	20	1551	6755	
F 70 3_49.0	49.0	37	41025	26	1377	6093	24.5	44250	18.5	1572	6897	
F 70 3_57.7	57.7	31	44250	24	1377	6571	20.8	44250	15.7	1572	7438	
F 70 3_62.5	62.5	28.8	44250	22	1394	6717	19.2	44250	14.5	1574	7603	
F 70 3_67.9	67.9	26.5	44250	20	1383	6987	17.7	44250	13.3	1574	7870	
F 70 3_73.6	73.6	24.5	44250	18.5	1400	7153	16.3	44250	12.3	1574	7870	
F 70 3_85.4	85.4	21.1	44250	15.9	1398	7278	14.1	44250	10.6	1574	7870	
F 70 3_92.5	92.5	19.5	44250	14.7	1414	7278	13.0	44250	9.8	1574	7870	
F 70 3_101.2	101.2	17.8	44250	13.4	1406	7278	11.9	44250	8.9	1574	7870	
F 70 3_109.6	109.6	16.4	44250	12.4	1420	7278	10.9	44250	8.3	1574	7870	
F 70 3_122.7	122.7	14.7	44250	11.1	1412	7278	9.8	44250	7.4	1574	7870	
F 70 3_133.0	133.0	13.5	44250	10.2	1427	7441	9.0	44250	6.8	1574	7870	
F 70 3_153.8	153.8	11.7	44250	8.8	1418	7870	7.8	44250	5.9	1574	7870	574
F 70 3_166.7	166.7	10.8	44250	8.1	1433	7870	7.2	44250	5.4	1574	7870	575
F 70 3_180.9	180.9	10.0	44250	7.5	1425	7870	6.6	44250	5.0	1574	7870	
F 70 3_196.0	196.0	9.2	44250	6.9	1437	7870	6.1	44250	4.6	1574	7870	
F 70 4_216.5	216.5	8.3	44250	6.5	590	7870	5.5	44250	4.3	673	7870	
F 70 4_234.6	234.6	7.7	44250	6.0	590	7870	5.1	44250	4.0	673	7870	
F 70 4_280.9	280.9	6.4	44250	5.0	606	7870	4.3	44250	3.3	692	7870	
F 70 4_304.3	304.3	5.9	44250	4.6	606	7870	3.9	44250	3.1	692	7870	
F 70 4_372.5	372.5	4.8	44250	3.8	618	7870	3.2	44250	2.5	706	7870	
F 70 4_403.5	403.5	4.5	44250	3.5	618	7870	3.0	44250	2.3	706	7870	
F 70 4_471.2	471.2	3.8	44250	3.0	627	7870	2.5	44250	2.0	716	7870	
F 70 4_510.4	510.4	3.5	44250	2.8	627	7870	2.4	44250	1.8	716	7870	
F 70 4_606.8	606.8	3.0	44250	2.3	633	7870	2.0	44250	1.5	723	7870	
F 70 4_657.4	657.4	2.7	44250	2.1	633	7870	1.8	44250	1.4	723	7870	
F 70 4_759.0	759.0	2.4	44250	1.8	637	7870	1.6	44250	1.2	727	7870	
F 70 4_822.2	822.2	2.2	44250	1.7	637	7870	1.5	44250	1.1	727	7870	
F 70 4_899.4	899.4	2.0	44250	1.6	641	7870	1.3	44250	1.0	732	7870	
F 70 4_974.4	974.4	1.8	44250	1.4	641	7870	1.2	44250	0.96	732	7870	
F 70 4_1091	1091	1.6	44250	1.3	643	7870	1.1	44250	0.86	734	7870	
F 70 4_1182	1182	1.5	44250	1.2	643	7870	1.0	44250	0.79	734	7870	
F 70 4_1368	1368	1.3	44250	1.0	645	7870	0.88	44250	0.68	737	7870	
F 70 4_1481	1481	1.2	44250	0.95	645	7870	0.81	44250	0.63	737	7870	
F 70 4_1585	1585	1.1	44250	0.89	647	7870	0.76	44250	0.59	739	7870	
F 70 4_1717	1717	1.0	44250	0.82	647	7870	0.70	44250	0.55	739	7870	
F 70 4_2019	2019	0.89	44250	0.70	649	7870	0.59	44250	0.46	741	7870	
F 70 4_2188	2188	0.82	44250	0.64	649	7870	0.55	44250	0.43	741	7870	



F 80 — 70800 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 80 3_10.3	10.3	175	33640	100	137	4543	117	37959	75	—	5131	
F 80 3_11.2	11.2	161	36430	100	139	4522	107	41107	75	—	5108	
F 80 3_12.9	12.9	140	36758	87	151	4814	93	41477	66	—	5437	
F 80 3_14.0	14.0	129	39876	87	157	4793	86	44995	66	—	5414	
F 80 3_16.2	16.2	111	38892	74	171	5168	74	43884	55	—	5837	
F 80 3_17.6	17.6	102	42174	74	164	5147	68	47588	55	—	5814	
F 80 3_20.3	20.3	89	42010	64	175	5523	59	47402	48	—	6237	
F 80 3_22.0	22.0	82	45456	63	175	5502	55	51291	48	—	6214	
F 80 3_25.2	25.2	71	43733	53	157	5939	48	49347	40	—	6708	
F 80 3_28.8	28.8	63	65640	70	1175	5293	42	70800	50	1421	5979	
F 80 3_31.3	31.3	58	65640	64	1204	5418	38	70800	46	1457	6120	
F 80 3_36.0	36.0	50	65640	56	1218	5856	33	70800	40	1474	6614	
F 80 3_39.0	39.0	46	65640	52	1244	6002	31	70800	37	1505	6779	
F 80 3_45.3	45.3	40	69924	47	1244	6481	26	70800	32	1505	7320	
F 80 3_49.1	49.1	37	70800	44	1268	6648	24	70800	30	1534	7508	
F 80 3_56.7	56.7	32	70800	38	1274	7148	21	70800	26	1541	8073	
F 80 3_61.5	61.5	29	70800	35	1296	7315	19.5	70800	24	1568	8262	
F 80 3_70.4	70.4	26	70800	31	1288	7815	17.0	70800	21	1558	8827	
F 80 3_76.3	76.3	24	70800	28	1308	8003	15.7	70800	19.0	1574	9038	
F 80 3_85.2	85.2	21	70800	26	1306	8440	14.1	70800	17.0	1574	9533	
F 80 3_92.3	92.3	19.5	70800	24	1324	8649	13.0	70800	15.7	1574	9768	
F 80 3_105.0	105.0	17.1	70800	21	1318	9170	11.4	70800	13.8	1574	10120	
F 80 3_113.8	113.8	15.8	70800	19.1	1336	9378	10.5	70800	12.7	1574	10120	
F 80 3_122.5	122.5	14.7	70800	17.7	1322	9378	9.8	70800	11.8	1574	10120	
F 80 3_132.7	132.7	13.6	70800	16.4	1340	9378	9.0	70800	10.9	1574	10120	582
F 80 3_147.9	147.9	12.2	70800	14.7	1328	9378	8.1	70800	9.8	1574	10120	583
F 80 3_160.2	160.2	11.2	70800	13.6	1346	9378	7.5	70800	9.0	1574	10120	
F 80 3_184.6	184.6	9.8	70800	11.8	1336	9397	6.5	70800	7.8	1574	10120	
F 80 3_200.0	200.0	9.0	70800	10.9	1352	9622	6.0	70800	7.2	1574	10120	
F 80 4_218.5	218.5	8.2	70800	10.3	479	10120	5.5	70800	6.9	579	10120	
F 80 4_273.9	273.9	6.6	70800	8.2	534	10120	4.4	70800	5.5	646	10120	
F 80 4_296.7	296.7	6.1	70800	7.6	534	10120	4.0	70800	5.0	646	10120	
F 80 4_353.7	353.7	5.1	70800	6.4	552	10120	3.4	70800	4.2	668	10120	
F 80 4_383.2	383.2	4.7	70800	5.9	552	10120	3.1	70800	3.9	668	10120	
F 80 4_451.5	451.5	4.0	70800	5.0	562	10120	2.7	70800	3.3	680	10120	
F 80 4_489.1	489.1	3.7	70800	4.6	562	10120	2.5	70800	3.1	680	10120	
F 80 4_563.9	563.9	3.2	70800	4.0	570	10120	2.1	70800	2.7	690	10120	
F 80 4_610.9	610.9	2.9	70800	3.7	570	10120	2.0	70800	2.5	690	10120	
F 80 4_714.9	714.9	2.5	70800	3.1	576	10120	1.7	70800	2.1	697	10120	
F 80 4_774.4	774.4	2.3	70800	2.9	576	10120	1.5	70800	1.9	697	10120	
F 80 4_897.3	897.3	2.0	70800	2.5	584	10120	1.3	70800	1.7	707	10120	
F 80 4_972.0	972.0	1.85	70800	2.3	584	10120	1.2	70800	1.5	707	10120	
F 80 4_1058	1058	1.70	70800	2.1	588	10120	1.1	70800	1.4	712	10120	
F 80 4_1146	1146	1.57	70800	2.0	588	10120	1.0	70800	1.3	712	10120	
F 80 4_1277	1277	1.41	70800	1.8	590	10120	0.94	70800	1.2	714	10120	
F 80 4_1384	1384	1.30	70800	1.6	590	10120	0.87	70800	1.1	714	10120	
F 80 4_1578	1578	1.14	70800	1.4	592	10120	0.76	70800	0.95	716	10120	
F 80 4_1709	1709	1.05	70800	1.3	592	10120	0.70	70800	0.88	716	10120	
F 80 4_1834	1834	0.98	70800	1.2	594	10120	0.65	70800	0.82	719	10120	
F 80 4_1987	1987	0.91	70800	1.1	594	10120	0.60	70800	0.75	719	10120	

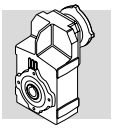
(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



F 90 — 123900 lb·in

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	n_2 rpm	T_{n2} lb·in	P_{n1} hp	R_{n1} lbs	R_{n2} lbs	
F 90 3_10.3	10.3	175	65711	196	1543	6100	117	74066	147	1977	6890	
F 90 3_11.1	11.1	162	72282	200	1499	5975	108	81473	150	1920	6749	
F 90 3_13.4	13.4	134	76389	175	1404	6391	90	86102	131	1799	7219	
F 90 3_14.5	14.5	124	82138	174	1427	6308	83	92583	131	1828	7125	
F 90 3_16.5	16.5	109	84603	157	1342	6662	73	95360	118	1720	7525	
F 90 3_17.9	17.9	101	90352	155	1385	6599	67	101841	116	1774	7454	
F 90 3_20.6	20.6	87	92816	138	1207	7015	58	104619	104	1547	7925	
F 90 3_22.3	22.3	81	98566	136	1271	6953	54	111099	102	1628	7854	
F 90 3_25.4	25.4	71	98566	119	1217	7494	47	106213	86	1559	8465	
F 90 3_28.6	28.6	63	98566	106	2392	7911	42	111099	79	3064	8936	
F 90 3_31.0	31.0	58	106780	106	2392	7765	39	120358	79	3064	8771	
F 90 3_37.4	37.4	48	110887	91	2392	8410	32	123900	68	3064	9500	
F 90 3_40.5	40.5	44	114994	87	2411	8452	30	123900	63	3088	9547	
F 90 3_46.1	46.1	39	114994	77	2430	9076	26.0	123900	55	3113	10253	
F 90 3_49.9	49.9	36	115507	71	2450	9305	24.0	123900	51	3138	10511	
F 90 3_57.3	57.3	31	115507	62	2450	10013	20.9	123900	44	3138	11311	
F 90 3_62.1	62.1	29.0	123900	61	2469	10263	19.3	123900	41	3162	11593	
F 90 3_70.8	70.8	25.4	123900	54	2469	10971	16.9	123900	36	3162	12365	
F 90 3_76.7	76.7	23.5	123900	50	2508	11241	15.6	123900	33	3212	12365	
F 90 3_88.4	88.4	20.4	123900	43	2488	11450	13.6	123900	29	3187	12365	
F 90 3_95.8	95.8	18.8	123900	40	2527	11450	12.5	123900	26	3237	12365	
F 90 3_103.3	103.3	17.4	123900	37	2508	11450	11.6	123900	25	3212	12365	
F 90 3_111.9	111.9	16.1	123900	34	2527	11450	10.7	123900	23	3237	12365	
F 90 3_126.8	126.8	14.2	123900	30	2508	11450	9.5	123900	20	3212	12365	
F 90 3_137.3	137.3	13.1	123900	28	2527	11578	8.7	123900	18.5	3237	12365	
F 90 3_150.3	150.3	12.0	123900	25	2527	12140	8.0	123900	16.9	3237	12365	590
F 90 3_162.8	162.8	11.1	123900	23	2546	12365	7.4	123900	15.6	3261	12365	591
F 90 3_179.2	179.2	10.0	123900	21	2527	12365	6.7	123900	14.2	3237	12365	
F 90 3_194.2	194.2	9.3	123900	19.6	2546	12365	6.2	123900	13.1	3261	12365	
F 90 4_213.6	213.6	8.4	123900	18.4	—	12365	5.6	123900	12.3	—	12365	
F 90 4_231.4	231.4	7.8	123900	17.0	—	12365	5.2	123900	11.3	—	12365	
F 90 4_268.7	268.7	6.7	123900	14.6	—	12365	4.5	123900	9.8	104	12365	
F 90 4_291.1	291.1	6.2	123900	13.5	—	12365	4.1	123900	9.0	104	12365	
F 90 4_361.8	361.8	5.0	123900	10.9	—	12365	3.3	123900	7.2	245	12365	
F 90 4_392.0	392.0	4.6	123900	10.0	—	12365	3.1	123900	6.7	245	12365	
F 90 4_457.5	457.5	3.9	123900	8.6	—	12365	2.6	123900	5.7	343	12365	
F 90 4_495.6	495.6	3.6	123900	7.9	—	12365	2.4	123900	5.3	343	12365	
F 90 4_577.5	577.5	3.1	123900	6.8	309	12365	2.1	123900	4.5	395	12365	
F 90 4_625.6	625.6	2.9	123900	6.3	309	12365	1.9	123900	4.2	395	12365	
F 90 4_714.0	714.0	2.5	123900	5.5	347	12365	1.7	123900	3.7	445	12365	
F 90 4_773.4	773.4	2.3	123900	5.1	347	12365	1.6	123900	3.4	445	12365	
F 90 4_910.2	910.2	2.0	123900	4.3	390	12365	1.3	123900	2.9	499	12365	
F 90 4_986.0	986.0	1.8	123900	4.0	390	12365	1.2	123900	2.7	499	12365	
F 90 4_1112	1112	1.6	123900	3.5	407	12365	1.1	123900	2.4	521	12365	
F 90 4_1205	1205	1.5	123900	3.3	407	12365	1.0	123900	2.2	521	12365	
F 90 4_1318	1318	1.4	123900	3.0	428	12365	0.91	123900	2.0	548	12365	
F 90 4_1428	1428	1.3	123900	2.8	428	12365	0.84	123900	1.8	548	12365	
F 90 4_1571	1571	1.1	123900	2.5	436	12365	0.76	123900	1.7	558	12365	
F 90 4_1702	1702	1.1	123900	2.3	436	12365	0.71	123900	1.5	558	12365	
F 90 4_1937	1937	0.93	123900	2.0	444	12365	0.62	123900	1.4	568	12365	
F 90 4_2099	2099	0.86	123900	1.9	444	12365	0.57	123900	1.2	568	12365	

(—) Contact our technical service department advising radial load data (rotation direction, orientation, position)



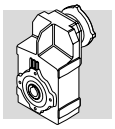
55 MOTOR AVAILABILITY

Please be aware that motor-gearbox combinations resulting from following charts are purely based on geometrical compatibility.

When selecting a gearmotor, refer to procedure specified at paragraph 12 and observe particularly the condition $S \geq f_s$.

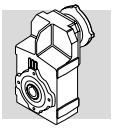
(D 57)

		IEC_ BN BE BX (IM B5)								
		P63 P71	P80 P90	P100 P112	P132	P160	P180	P200	P225	P250
F 10 2		7.4_127.1	7.4_91.5	7.4_91.5						
F 20 2		8.7_132.2 ⛀ (14.8_18.1)	6.4_114.3	6.4_114.3						
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3						
F 25 2		9.4_44.4 ⛀ (10.6_13.0)	6.9_44.4	6.9_44.4						
F 25 3		50.8_333.1	45.6_288.1	45.6_288.1						
F 25 4		393.9_1374	393.9_1374	393.9_1374						
F 31 2		18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7					
F 31 3		69.1_374.4	47.5_374.4	47.5_374.4	47.5_140.7					
F 31 4		418.9_1539	418.9_1539	418.9_1539						
F 41 2		24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9					
F 41 3		84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7					
F 41 4	i =	433.7_1411	433.7_1411	433.7_1411						
F 51 2		30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1			
F 51 3		105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4			
F 51 4		429.1_1439	429.1_1439	429.1_1439						
F 60 3		98.2_280.7	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4			
F 60 4		315.4_1141	315.4_1141	315.4_1141						
F 70 3			85.4_196.0	85.4_196.0	16.3_196.0 ⛀ (27.7_38.4)	10.0_196.0	10.0_196.0	10.0_49.0 ⛀ (20.9_24.6)		
F 70 4		372.5_2188	216.5_2188	216.5_2188	216.5_822.2					
F 80 3			105.0_200.0	105.0_200.0	20.3_200.0 ⛀ (28.8_49.1)	12.9_200.0 ⛀ (28.8_31.3)	10.3_200.0	10.3_132.7	10.3_132.7	
F 80 4		451.5_1987	218.5_1987	218.5_1987	218.5_972.0					
F 90 3			126.8_194.2	126.8_194.2	25.4_194.2 ⛀ (28.6_62.1)	20.6_194.2 ⛀ (28.6_49.9)	10.3_194.2	10.3_162.8	10.3_162.8	10.3_162.8
F 90 4		577.5_2099	213.6_2099	213.6_2099	213.6_1205	213.6_1205	213.6_1205			



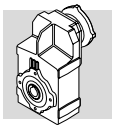
(D 58)

		NEMA Motor frame						
		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
	HP	0.16 ... 1	1.5 ... 2	3 ... 5	7.5 ... 10	15 ... 20	25 ... 30	40 ... 50
F 10 2		7.4_127.1	7.4_91.5	7.4_91.5				
F 20 2		8.7_132.2 ⛀ (14.8_18.1)	6.4_114.3	6.4_114.3				
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3				
F 25 2		9.4_44.4 ⛀ (10.6_13.0)	6.9_44.4	6.9_44.4				
F 25 3		50.8_333.1	45.6_288.1	45.6_288.1				
F 25 4		393.9_1374	393.9_1374	393.9_1374				
F 31 2		18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7			
F 31 3		69.1_374.4	47.5_374.4	47.5_374.4	47.5_140.7			
F 31 4		418.9_1539	418.9_1539	418.9_1539				
F 41 2		24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9			
F 41 3		84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7			
F 41 4	i =	433.7_1411	433.7_1411	433.7_1411				
F 51 2		30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	
F 51 3		105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4	
F 51 4		429.1_1439	429.1_1439	429.1_1439				
F 60 3		98.2_280.7	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4	
F 60 4		315.4_1141	315.4_1141	315.4_1141				
F 70 3			85.4_196.0	85.4_196.0	16.3_196.0 ⛀ (27.7_38.4)	10.0_196.0	10.0_196.0	
F 70 4		372.5_2188	216.5_2188	216.5_2188	216.5_822.2			
F 80 3			105.0_200.0	105.0_200.0	20.3_200.0 ⛀ (28.8_49.1)	12.9_200.0 ⛀ (28.8_31.3)	10.3_200.0	10.3_132.7
F 80 4		451.5_1987	218.5_1987	218.5_1987	218.5_972.0			
F 90 3			126.8_194.2	126.8_194.2	25.4_194.2 ⛀ (28.6_62.1)	20.6_194.2 ⛀ (28.6_49.9)	10.3_194.2	10.3_162.8
F 90 4		577.5_2099	213.6_2099	213.6_2099	213.6_1205	213.6_1205	213.6_1205	



(D 59)

		M	ME	MX			
		M05	M1	M2 - ME2 - MX2	ME3 - MX3	ME4 - MX4	ME5 - MX5
F 10 2	i =	7.4_127.1	7.4_71.1	7.4_91.5	7.4_91.5		
F 20 2		8.7_132.2 ⛀ (14.8_18.1)	8.7_90.4 ⛀ (14.8_18.1)	6.4_114.3	6.4_114.3		
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3		
F 25 2		9.4_44.4 ⛀ (10.6_13.0)	9.4_44.4 ⛀ (10.6_13.0)	6.9_44.4	6.9_44.4		
F 25 3		50.8_333.1	50.8_227.8	45.6_288.1	45.6_288.1		
F 25 4		393.9_1374	393.9_1374	393.9_1374	393.9_1374		
F 31 2			18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7	
F 31 3			69.1_293.8	47.5_374.4	47.5_374.4	47.5_140.7	
F 31 4		418.9_1539	418.9_1539	418.9_1539	418.9_1539		
F 41 2			24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9	
F 41 3			84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7	
F 41 4		433.7_1411	433.7_1411	433.7_1411	433.7_1411		
F 51 2			30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3			105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4
F 51 4			429.1_1439	429.1_1439	429.1_1439		
F 60 3				11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	9_201.4	9_201.4
F 60 4			315.4_1141	315.4_1141	315.4_1141		
F 70 3				85.4_196.0	85.4_196.0	16.3_196.0 ⛀ (27.7_38.4)	16.3_196.0 ⛀ (27.7_38.4)
F 70 4			372.5_2188	216.5_2188	216.5_2188	216.5_822.2	
F 80 3					105.0_200.0	20.3_200.0 ⛀ (28.8_49.1)	20.3_200.0 ⛀ (28.8_49.1)
F 80 4			451.5_1987	218.5_1987	218.5_1987	218.5_972.0	
F 90 3					126.8_194.2	25.4_194.2 ⛀ (28.6_62.1)	25.4_194.2 ⛀ (28.6_62.1)
F 90 4				213.6_2099	213.6_2099	213.6_1205	



Motor adapters matching the most popular brands of servomotors are available for units size F 10 … F 60. Dimensions of servomotor inputs are provided within the drawing section for each frame size.
The code **SK** applies for inputs featuring a conventional keyway, while through the specification of the **SC** code the input shaft will feature a clamping device instead.

(D 60)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
F 10 2		7.4_127.1	7.4_71.1	7.4_71.1		7.4_91.5	7.4_71.1	7.4_91.5	7.4_91.5
F 20 2		8.7_132.2 ⛀ (14.8_18.1)	8.7_90.4 ⛀ (14.8_18.1)	8.7_90.4 ⛀ (14.8_18.1)		6.4_114.3	8.7_90.4 ⛀ (14.8_18.1)	6.4_114.3	6.4_114.3
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3
F 25 2		9.4_44.4 ⛀ (10.6_13.0)	9.4_44.4 ⛀ (10.6_13.0)	9.4_44.4 ⛀ (10.6_13.0)		6.9_44.4	9.4_44.4 ⛀ (10.6_13.0)	6.9_44.4	6.9_44.4
F 25 3		45.6_333.1	45.6_227.8	45.6_227.8		45.6_288.1	45.6_227.8	45.6_288.1	45.6_288.1
F 25 4		393.9_1374	393.9_1374	393.9_1374		393.9_1374	393.9_1374	393.9_1374	393.9_1374
F 31 2		18.5_44.6	18.5_44.6	18.5_44.6		6.9_44.6	18.5_44.6	6.9_44.6	6.9_44.6
F 31 3		69.1_374.4	69.1_293.8	69.1_293.8		47.5_374.4	69.1_293.8	47.5_374.4	47.5_374.4
F 31 4	i =	418.9_1539	418.9_1539	418.9_1539		418.9_1539	418.9_1539	418.9_1539	418.9_1539
F 41 2					24.1_47.9	6.7_47.9	24.1_47.9	6.7_47.9	6.7_47.9
F 41 3					84.9_344.8	51.5_344.8	84.9_344.8	51.5_344.8	51.5_344.8
F 41 4		433.7_1411	433.7_1411	433.7_1411		433.7_1411	433.7_1411	433.7_1411	433.7_1411
F 51 2					30.0_37.1	7.2_37.1	30.0_37.1	7.2_37.1	7.2_37.1
F 51 3					105.1_352.5	48.9_352.5	105.1_352.5	48.9_352.5	48.9_352.5
F 51 4						429.1_1439	429.1_1439	429.1_1439	429.1_1439
F 60 3						11.8_280.7 ⛀ (29.6_32.1)	106.4_280.7	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)
F 60 4					315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141

(D 61)

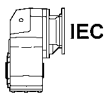
		SERVO INPUT					
		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
F 10 2		7.4_91.5	7.4_91.5				
F 20 2		6.4_114.3	6.4_114.3				
F 20 3		156.3_545.3	156.3_545.3				
F 25 2		6.9_44.4	6.9_44.4				
F 25 3		45.6_288.1	45.6_288.1				
F 25 4		393.9_1374	393.9_1374				
F 31 2		6.9_44.6	6.9_44.6	6.9_44.6			
F 31 3		47.5_374.4	47.5_374.4	47.5_374.4			
F 31 4	i =	418.9_1539	418.9_1539				
F 41 2		6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9
F 41 3		51.5_344.8	51.5_344.8	51.5_344.8	51.5_168.7	51.5_168.7	51.5_168.7
F 41 4		433.7_1411	433.7_1411				
F 51 2		7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3		48.9_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4
F 51 4		429.1_1439	429.1_1439	429.1_1439			
F 60 3		11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4
F 60 4		315.4_1141	315.4_1141	315.4_1141			

56 MOMENT OF INERTIA

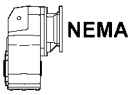
The following charts indicate moment of inertia values Jr [lb•ft²] referred to the gear unit high speed shaft. A key to the symbols used follows:



Values under this icon refer to compact gear units, without motor. To obtain the overall moment of inertia for the gearmotor just add the value of the inertia for the specific compact motor, given in the relevant rating chart.



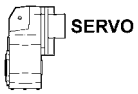
Values under this symbol refer to gearboxes with IEC motor adaptor (IEC size...).



Values under this symbol refer to gearboxes with NEMA motor adaptor (NEMA size...).



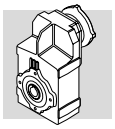
This symbol refers to gearbox values.



Values under this symbol refer to gear unit with servomotor input adapter.

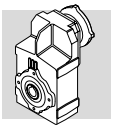
F 10

	i	**J** (•10-4) [lb•ft²]							
			IEC 63	IEC 71	IEC 80	IEC 90	IEC 100	IEC 112	
F 10 2_7.4	7.4	24	43	43	90	88	116	116	40
F 10 2_8.6	8.6	18	36	36	85	83	112	112	36
F 10 2_9.8	9.8	15	33	33	81	78	107	107	31
F 10 2_11.5	11.5	11	28	28	78	76	104	104	28
F 10 2_13.0	13.0	9.0	26	26	76	74	102	102	26
F 10 2_14.6	14.6	14	33	33	81	78	107	107	31
F 10 2_17.0	17.0	11	31	28	78	76	104	104	28
F 10 2_19.3	19.3	9.7	28	28	76	74	102	102	26
F 10 2_22.8	22.8	7.6	26	26	74	71	100	100	24
F 10 2_25.8	25.8	5.9	24	24	74	69	97	97	22
F 10 2_29.6	29.6	4.5	24	23	71	69	97	97	21
F 10 2_33.0	33.0	3.8	22	22	71	66	97	97	20
F 10 2_35.3	35.3	3.3	22	21	71	66	95	95	20
F 10 2_39.6	39.6	2.8	21	21	69	66	95	95	19
F 10 2_44.7	44.7	2.4	21	20	69	66	95	95	19
F 10 2_48.7	48.7	2.1	20	20	69	66	95	95	18
F 10 2_56.7	56.7	1.7	20	20	69	64	95	95	18
F 10 2_63.0	63.0	1.4	20	19	69	64	93	93	18
F 10 2_71.1	71.1	1.2	19	19	66	64	93	93	17
F 10 2_81.3	81.3	0.95	19	18	66	64	93	93	16
F 10 2_91.5	91.5	0.71	19	18	66	64	93	93	16
F 10 2_106.0	106.0	0.71	18	18	—	—	—	—	16
F 10 2_127.1	127.1	0.47	18	18	—	—	—	—	15



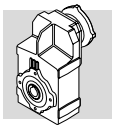
F 10

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
F 10 2_7.4	7.4	24	43	43	90	40
F 10 2_8.6	8.6	18	36	36	85	36
F 10 2_9.8	9.8	15	33	33	81	31
F 10 2_11.5	11.5	11	28	28	78	28
F 10 2_13.0	13.0	9.0	26	26	76	26
F 10 2_14.6	14.6	14	33	33	81	31
F 10 2_17.0	17.0	11	31	31	78	28
F 10 2_19.3	19.3	9,7	28	28	76	26
F 10 2_22.8	22.8	7,6	26	26	74	24
F 10 2_25.8	25.8	5,9	24	24	74	22
F 10 2_29.6	29.6	4,5	24	24	71	21
F 10 2_33.0	33.0	3,8	22	22	71	20
F 10 2_35.3	35.3	3,3	22	22	71	20
F 10 2_39.6	39.6	2,8	21	21	69	19
F 10 2_44.7	44.7	2,4	21	21	69	19
F 10 2_48.7	48.7	2,1	20	20	69	18
F 10 2_56.7	56.7	1,7	20	20	69	18
F 10 2_63.0	63.0	1,4	20	20	69	18
F 10 2_71.1	71.1	1,2	19	19	66	17
F 10 2_81.3	81.3	0,95	19	19	66	16
F 10 2_91.5	91.5	0,71	19	19	66	16
F 10 2_106.0	106.0	0,71	18	18	—	16
F 10 2_127.1	127.1	0,47	18	18	—	15



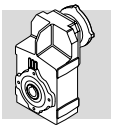
F 10

	i	J (•10-4) [lb•ft2]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 10 2_7.4	7.4	31	36	31	40	90	102	90	102	88	112
F 10 2_8.6	8.6	24	31	26	36	85	95	85	97	83	107
F 10 2_9.8	9.8	22	28	22	33	83	93	81	93	78	102
F 10 2_11.5	11.5	18	24	18	28	78	88	78	90	76	100
F 10 2_13.0	13.0	15	22	16	26	76	85	76	88	74	97
F 10 2_14.6	14.6	21	26	22	31	81	93	81	93	78	102
F 10 2_17.0	17.0	18	24	18	28	78	88	78	90	76	100
F 10 2_19.3	19.3	16	22	17	26	76	88	76	88	74	97
F 10 2_22.8	22.8	14	20	14	24	74	85	74	85	71	95
F 10 2_25.8	25.8	12	19	13	23	74	83	74	85	69	93
F 10 2_29.6	29.6	11	17	11	22	71	81	71	83	69	93
F 10 2_33.0	33.0	10	16	11	21	71	81	71	83	66	90
F 10 2_35.3	35.3	9,7	16	10	21	71	81	71	83	66	90
F 10 2_39.6	39.6	9,3	15	9,7	20	69	78	69	81	66	90
F 10 2_44.7	44.7	8,8	15	9,3	20	69	81	69	81	66	90
F 10 2_48.7	48.7	8,5	15	9,0	19	69	78	69	81	66	90
F 10 2_56.7	56.7	8,1	14	8,5	19	69	78	69	81	64	88
F 10 2_63.0	63.0	7,8	14	8,3	19	69	78	69	81	64	88
F 10 2_71.1	71.1	7,6	14	8,1	19	69	78	66	78	64	88
F 10 2_81.3	81.3	7,4	14	—	—	—	—	66	78	64	88
F 10 2_91.5	91.5	7,1	13	—	—	—	—	66	78	64	88
F 10 2_106.0	106.0	7,1	13	—	—	—	—	—	—	—	—
F 10 2_127.1	127.1	6,9	13	—	—	—	—	—	—	—	—

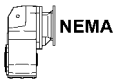


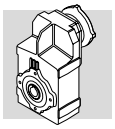
F 20

	i	J (•10-4) [lb•ft2]							
			IEC						
			63	71	80	90	100	112	
F 20 2_6.4	6.4	52	—	—	119	114	142	142	93
F 20 2_7.8	7.8	36	—	—	102	100	128	128	78
F 20 2_8.7	8.7	31	47	47	97	93	123	123	71
F 20 2_10.0	10.0	24	43	40	90	88	116	116	64
F 20 2_11.2	11.2	21	38	38	85	83	112	112	62
F 20 2_14.8	14.8	28	—	—	95	93	121	121	69
F 20 2_18.1	18.1	21	—	—	88	83	112	112	62
F 20 2_20.2	20.2	19	36	36	83	81	109	109	59
F 20 2_23.1	23.1	15	33	31	81	78	107	107	57
F 20 2_25.9	25.9	14	31	31	78	76	104	104	55
F 20 2_30.4	30.4	9.7	26	26	76	71	102	102	50
F 20 2_33.1	33.1	8.5	26	26	74	71	100	100	50
F 20 2_37.9	37.9	7.1	24	24	74	69	97	97	47
F 20 2_41.8	41.8	6.4	24	24	71	69	97	97	47
F 20 2_44.8	44.8	5.7	24	24	71	69	97	97	47
F 20 2_50.7	50.7	5.0	22	22	71	66	97	97	45
F 20 2_56.7	56.7	4.3	22	21	69	66	95	95	45
F 20 2_61.9	61.9	3.8	21	21	69	66	95	95	45
F 20 2_69.1	69.1	3.3	21	20	69	66	95	95	43
F 20 2_76.8	76.8	2.8	20	20	69	66	95	95	43
F 20 2_90.4	90.4	2.4	20	19	69	64	93	93	43
F 20 2_101.6	101.6	2.1	19	19	66	64	93	93	43
F 20 2_114.3	114.3	1.9	19	18	66	64	93	93	43
F 20 2_132.2	132.2	0.71	19	18	—	—	—	—	43
F 20 3_156.3	156.3	0.95	19	19	66	64	93	93	17
F 20 3_172.6	172.6	0.95	19	19	66	64	93	93	17
F 20 3_184.9	184.9	0.95	19	19	66	64	93	93	17
F 20 3_209.3	209.3	0.71	19	19	66	64	93	93	17
F 20 3_234.0	234.0	0.71	19	19	66	64	93	93	17
F 20 3_255.3	255.3	0.71	19	19	66	64	93	93	17
F 20 3_285.2	285.2	0.71	19	19	66	64	93	93	17
F 20 3_316.9	316.9	0.71	19	19	66	64	93	93	17
F 20 3_372.9	372.9	0.71	19	19	66	64	93	93	17
F 20 3_419.3	419.3	0.71	19	19	66	64	93	93	16
F 20 3_471.7	471.7	0.71	19	19	66	64	93	93	16
F 20 3_545.3	545.3	0.71	19	19	66	64	93	93	16



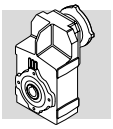
F 20

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
F 20 2_6.4	6.4	52	—	—	119	93
F 20 2_7.8	7.8	36	—	—	102	78
F 20 2_8.7	8.7	31	47	47	97	71
F 20 2_10.0	10.0	24	43	43	90	64
F 20 2_11.2	11.2	21	38	38	85	62
F 20 2_14.8	14.8	28	—	—	95	69
F 20 2_18.1	18.1	21	—	—	88	62
F 20 2_20.2	20.2	19	36	36	83	59
F 20 2_23.1	23.1	15	33	33	81	57
F 20 2_25.9	25.9	14	31	31	78	55
F 20 2_30.4	30.4	9,7	26	26	76	50
F 20 2_33.1	33.1	8,5	26	26	74	50
F 20 2_37.9	37.9	7,1	24	24	74	47
F 20 2_41.8	41.8	6,4	24	24	71	47
F 20 2_44.8	44.8	5,7	24	24	71	47
F 20 2_50.7	50.7	5,0	22	22	71	45
F 20 2_56.7	56.7	4,3	22	22	69	45
F 20 2_61.9	61.9	3,8	21	21	69	45
F 20 2_69.1	69.1	3,3	21	21	69	43
F 20 2_76.8	76.8	2,8	20	20	69	43
F 20 2_90.4	90.4	2,4	20	20	69	43
F 20 2_101.6	101.6	2,1	19	19	66	43
F 20 2_114.3	114.3	1,9	19	19	66	43
F 20 2_132.2	132.2	0,71	19	19	—	43
F 20 3_156.3	156.3	0,95	19	19	66	17
F 20 3_172.6	172.6	0,95	19	19	66	17
F 20 3_184.9	184.9	0,95	19	19	66	17
F 20 3_209.3	209.3	0,71	19	19	66	17
F 20 3_234.0	234.0	0,71	19	19	66	17
F 20 3_255.3	255.3	0,71	19	19	66	17
F 20 3_285.2	285.2	0,71	19	19	66	17
F 20 3_316.9	316.9	0,71	19	19	66	17
F 20 3_372.9	372.9	0,71	19	19	66	17
F 20 3_419.3	419.3	0,71	19	19	66	16
F 20 3_471.7	471.7	0,71	19	19	66	16
F 20 3_545.3	545.3	0,71	19	19	66	16



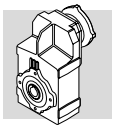
F 20

	i	J (•10-4) [lb•ft2]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 20 2_6.4	6.4	—	—	—	—	—	—	119	131	114	138
F 20 2_7.8	7.8	—	—	—	—	—	—	102	114	100	123
F 20 2_8.7	8.7	38	43	38	47	97	109	97	109	93	116
F 20 2_10.0	10.0	31	36	31	40	90	102	90	102	88	112
F 20 2_11.2	11.2	28	33	28	38	88	97	85	97	83	107
F 20 2_14.8	14.8	—	—	—	—	—	—	95	107	93	116
F 20 2_18.1	18.1	—	—	—	—	—	—	88	100	83	107
F 20 2_20.2	20.2	26	31	26	36	85	95	83	95	81	104
F 20 2_23.1	23.1	22	28	22	33	83	93	81	93	78	102
F 20 2_25.9	25.9	20	26	20	31	81	90	78	90	76	100
F 20 2_30.4	30.4	16	22	17	26	76	88	76	88	71	95
F 20 2_33.1	33.1	15	21	15	26	76	85	74	85	71	95
F 20 2_37.9	37.9	11	20	14	24	74	85	74	85	69	93
F 20 2_41.8	41.8	10	19	13	24	74	83	71	83	69	93
F 20 2_44.8	44.8	9,7	18	13	23	74	83	71	83	69	93
F 20 2_50.7	50.7	11	18	12	22	71	83	71	83	66	90
F 20 2_56.7	56.7	11	17	11	22	71	81	69	81	66	90
F 20 2_61.9	61.9	10	16	11	21	71	81	69	81	66	90
F 20 2_69.1	69.1	9,7	16	10	21	71	81	69	81	66	90
F 20 2_76.8	76.8	9,3	15	9,7	20	69	81	69	81	66	90
F 20 2_90.4	90.4	8,8	15	9,3	20	69	81	69	81	64	88
F 20 2_101.6	101.6	8,5	15	—	—	—	—	66	78	64	88
F 20 2_114.3	114.3	8,3	14	—	—	—	—	66	78	64	88
F 20 2_132.2	132.2	7,1	13	—	—	—	—	—	—	—	—
F 20 3_156.3	156.3	7,4	14	7,8	18	69	78	66	78	64	88
F 20 3_172.6	172.6	7,4	14	7,8	18	69	78	66	78	64	88
F 20 3_184.9	184.9	7,4	14	7,8	18	69	78	66	78	64	88
F 20 3_209.3	209.3	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_234.0	234.0	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_255.3	255.3	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_285.2	285.2	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_316.9	316.9	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_372.9	372.9	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_419.3	419.3	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_471.7	471.7	7,1	13	7,6	18	69	78	66	78	64	88
F 20 3_545.3	545.3	7,1	13	7,6	18	69	78	66	78	64	88



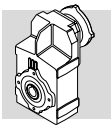
F 25

	i	J (•10-4) [lb•ft2]							
			IEC						
			63	71	80	90	100	112	
F 25 2_6.9	6.9	64	—	—	128	126	154	154	104
F 25 2_8.4	8.4	45	—	—	109	107	135	135	85
F 25 2_9.4	9.4	38	55	55	102	100	128	128	78
F 25 2_10.6	10.6	45	—	—	109	107	135	135	85
F 25 2_13.0	13.0	31	—	—	97	95	123	123	71
F 25 2_14.5	14.5	26	43	43	93	90	119	119	66
F 25 2_16.6	16.6	21	38	38	88	83	112	112	62
F 25 2_18.6	18.6	18	36	36	83	81	109	109	59
F 25 2_21.8	21.8	14	31	31	78	76	104	104	55
F 25 2_23.8	23.8	11	28	28	76	74	102	102	52
F 25 2_27.2	27.2	9.5	26	26	76	71	100	100	50
F 25 2_30.0	30.0	8.3	26	26	74	71	100	100	50
F 25 2_32.2	32.2	7.4	24	24	74	69	100	100	47
F 25 2_36.4	36.4	6.2	24	24	71	69	97	97	47
F 25 2_40.7	40.7	5.2	24	22	71	69	97	97	45
F 25 2_44.4	44.4	4.7	22	22	71	66	95	95	45
F 25 3_45.6	45.6	19	—	—	85	81	109	109	59
F 25 3_50.8	50.8	17	33	33	83	78	107	107	57
F 25 3_58.3	58.3	14	31	31	78	76	104	104	55
F 25 3_65.3	65.3	12	28	28	78	74	104	104	52
F 25 3_76.6	76.6	9.0	26	26	74	71	100	100	50
F 25 3_83.4	83.4	7.6	24	24	74	71	100	100	47
F 25 3_95.5	95.5	6.6	24	24	71	69	97	97	47
F 25 3_105.4	105.4	5.9	24	24	71	69	97	97	47
F 25 3_113.0	113.0	5.5	23	22	71	69	97	97	45
F 25 3_127.8	127.8	4.7	22	22	71	66	95	95	45
F 25 3_143.0	143.0	4.0	21	21	69	66	95	95	45
F 25 3_155.9	155.9	3.6	21	21	69	66	95	95	45
F 25 3_174.2	174.2	3.1	21	20	69	66	95	95	43
F 25 3_193.6	193.6	2.8	20	20	69	64	95	95	43
F 25 3_227.8	227.8	2.4	20	19	69	64	93	93	43
F 25 3_256.1	256.1	2.1	19	19	66	64	93	93	43
F 25 3_288.1	288.1	1.9	19	18	66	64	93	93	43
F 25 3_333.1	333.1	0.71	19	18	—	—	—	—	43
F 25 4_393.9	393.9	0.47	19	19	66	64	93	93	17
F 25 4_434.9	434.9	0.47	19	19	66	64	93	93	17
F 25 4_466.0	466.0	0.47	19	19	66	64	93	93	17
F 25 4_527.3	527.3	0.47	19	19	66	64	93	93	17
F 25 4_589.7	589.7	0.47	19	19	66	64	93	93	17
F 25 4_643.3	643.3	0.47	19	19	66	64	93	93	17
F 25 4_718.7	718.7	0.47	19	19	66	64	93	93	17
F 25 4_798.5	798.5	0.24	19	18	66	64	93	93	17
F 25 4_939.8	939.8	0.24	19	18	66	64	93	93	16
F 25 4_1057	1057	0.24	19	18	66	64	93	93	15
F 25 4_1189	1189	0.24	19	18	66	64	93	93	15
F 25 4_1374	1374	0.24	19	18	66	64	93	93	15



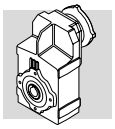
F 25

	i	J (•10-4) [lb•ft2]				
			 NEMA			
			N56C	N140TC	N180TC	
F 25 2_6.9	6.9	64	—	—	128	104
F 25 2_8.4	8.4	45	—	—	109	85
F 25 2_9.4	9.4	38	55	55	102	78
F 25 2_10.6	10.6	45	—	—	109	85
F 25 2_13.0	13.0	31	—	—	97	71
F 25 2_14.5	14.5	26	43	43	93	66
F 25 2_16.6	16.6	21	38	38	88	62
F 25 2_18.6	18.6	18	36	36	83	59
F 25 2_21.8	21.8	14	31	31	78	55
F 25 2_23.8	23.8	11	28	28	76	52
F 25 2_27.2	27.2	9,5	26	26	76	50
F 25 2_30.0	30.0	8,3	26	26	74	50
F 25 2_32.2	32.2	7,4	24	24	74	47
F 25 2_36.4	36.4	6,2	24	24	71	47
F 25 2_40.7	40.7	5,2	24	24	71	45
F 25 2_44.4	44.4	4,7	22	22	71	45
F 25 3_45.6	45.6	19	—	—	85	59
F 25 3_50.8	50.8	17	33	33	83	57
F 25 3_58.3	58.3	14	31	31	78	55
F 25 3_65.3	65.3	12	28	28	78	52
F 25 3_76.6	76.6	9,0	26	26	74	50
F 25 3_83.4	83.4	7,6	24	24	74	47
F 25 3_95.5	95.5	6,6	24	24	71	47
F 25 3_105.4	105.4	5,9	24	24	71	47
F 25 3_113.0	113.0	5,5	23	23	71	45
F 25 3_127.8	127.8	4,7	22	22	71	45
F 25 3_143.0	143.0	4,0	21	21	69	45
F 25 3_155.9	155.9	3,6	21	21	69	45
F 25 3_174.2	174.2	3,1	21	21	69	43
F 25 3_193.6	193.6	2,8	20	20	69	43
F 25 3_227.8	227.8	2,4	20	20	69	43
F 25 3_256.1	256.1	2,1	19	19	66	43
F 25 3_288.1	288.1	1,9	19	19	66	43
F 25 3_333.1	333.1	0,71	19	19	—	43
F 25 4_393.9	393.9	0,47	19	19	66	17
F 25 4_434.9	434.9	0,47	19	19	66	17
F 25 4_466.0	466.0	0,47	19	19	66	17
F 25 4_527.3	527.3	0,47	19	19	66	17
F 25 4_589.7	589.7	0,47	19	19	66	17
F 25 4_643.3	643.3	0,47	19	19	66	17
F 25 4_718.7	718.7	0,47	19	19	66	17
F 25 4_798.5	798.5	0,24	19	19	66	17
F 25 4_939.8	939.8	0,24	19	19	66	16
F 25 4_1057	1057	0,24	19	19	66	15
F 25 4_1189	1189	0,24	19	19	66	15
F 25 4_1374	1374	0,24	19	19	66	15



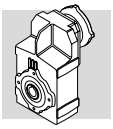
F 25

	i	J (•10-4) [lb•ft2] SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 25 2_6.9	6.9	—	—	—	—	—	—	128	140	126	150
F 25 2_8.4	8.4	—	—	—	—	—	—	109	121	107	131
F 25 2_9.4	9.4	45	50	45	55	104	116	102	114	100	123
F 25 2_10.6	10.6	—	—	—	—	—	—	109	121	107	131
F 25 2_13.0	13.0	—	—	—	—	—	—	97	109	95	119
F 25 2_14.5	14.5	33	38	33	43	93	104	93	104	90	114
F 25 2_16.6	16.6	28	33	28	38	88	100	88	100	83	107
F 25 2_18.6	18.6	24	31	26	36	85	95	83	95	81	104
F 25 2_21.8	21.8	20	26	20	31	81	90	78	90	76	100
F 25 2_23.8	23.8	18	24	18	28	78	88	76	88	74	97
F 25 2_27.2	27.2	16	22	16	26	76	88	76	88	71	95
F 25 2_30.0	30.0	15	21	15	26	76	85	74	85	71	95
F 25 2_32.2	32.2	14	20	33	43	74	85	74	85	69	93
F 25 2_36.4	36.4	13	19	13	23	74	83	71	83	69	93
F 25 2_40.7	40.7	12	18	12	23	71	83	71	83	69	93
F 25 2_44.4	44.4	11	17	12	22	71	83	71	83	66	90
F 25 3_45.6	45.6	26	31	26	36	85	95	85	97	81	104
F 25 3_50.8	50.8	23	28	23	33	83	95	83	95	78	102
F 25 3_58.3	58.3	20	26	21	31	81	90	78	90	76	100
F 25 3_65.3	65.3	19	26	20	28	78	90	78	90	74	97
F 25 3_76.6	76.6	15	22	16	26	76	85	74	85	71	95
F 25 3_83.4	83.4	14	20	14	24	74	85	74	85	71	95
F 25 3_95.5	95.5	13	19	14	24	74	83	71	83	69	93
F 25 3_105.4	105.4	12	19	13	23	74	83	71	83	69	93
F 25 3_113.0	113.0	12	18	12	23	74	83	71	83	69	93
F 25 3_127.8	127.8	11	17	12	22	71	83	71	83	66	90
F 25 3_143.0	143.0	10	17	11	21	71	81	69	81	66	90
F 25 3_155.9	155.9	10	16	10	21	71	81	69	81	66	90
F 25 3_174.2	174.2	9,5	16	10	20	71	81	69	81	66	90
F 25 3_193.6	193.6	9,3	15	9,7	20	69	81	69	81	64	88
F 25 3_227.8	227.8	8,8	15	9,3	20	69	81	69	81	64	88
F 25 3_256.1	256.1	8,5	15	—	—	—	—	66	78	64	88
F 25 3_288.1	288.1	8,3	14	—	—	—	—	66	78	64	88
F 25 3_333.1	333.1	7,1	13	—	—	—	—	—	—	—	—
F 25 4_393.9	393.9	6,9	13	7,4	18	66	78	66	78	64	88
F 25 4_434.9	434.9	6,9	13	7,4	18	66	78	66	78	64	88
F 25 4_466.0	466.0	6,9	13	7,4	18	66	78	66	78	64	88
F 25 4_527.3	527.3	6,9	13	7,4	18	66	78	66	78	64	88
F 25 4_589.7	589.7	6,9	13	7,4	18	66	78	66	78	64	88
F 25 4_643.3	643.3	6,9	13	7,4	18	66	78	66	78	64	88
F 25 4_718.7	718.7	6,9	13	7,4	18	66	78	66	78	64	88
F 25 4_798.5	798.5	6,6	13	7,1	18	66	78	66	78	64	88
F 25 4_939.8	939.8	6,6	13	7,1	18	66	78	66	78	64	88
F 25 4_1057	1057	6,6	13	7,1	18	66	78	66	78	64	88
F 25 4_1189	1189	6,6	13	7,1	18	66	78	66	78	64	88
F 25 4_1374	1374	6,6	13	7,1	18	66	78	66	78	64	88



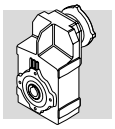
F 31

	i	J (•10-4) [lb•ft2]								
			IEC							
			63	71	80	90	100	112	132	
F 31 2_6.9	6.9	119	—	—	185	180	211	211	522	168
F 31 2_8.2	8.2	88	—	—	154	150	178	178	475	138
F 31 2_9.0	9.0	76	—	—	142	138	166	166	475	126
F 31 2_10.7	10.7	83	—	—	150	147	176	176	475	133
F 31 2_12.7	12.7	62	—	—	128	126	154	154	451	112
F 31 2_13.9	13.9	55	—	—	121	116	147	147	451	104
F 31 2_16.8	16.8	43	—	—	109	104	133	133	427	93
F 31 2_18.5	18.5	36	52	52	100	97	126	126	427	83
F 31 2_21.1	21.1	26	43	43	93	88	119	119	427	76
F 31 2_23.4	23.4	24	40	40	88	85	114	114	427	71
F 31 2_27.3	27.3	19	36	36	83	81	109	109	403	66
F 31 2_30.1	30.1	15	33	33	81	78	107	107	403	64
F 31 2_34.4	34.4	13	31	28	78	76	104	104	403	62
F 31 2_37.7	37.7	11	28	28	76	74	102	102	403	59
F 31 2_40.4	40.4	10	26	26	76	71	102	102	—	59
F 31 2_44.6	44.6	8.8	26	26	74	71	100	100	—	57
F 31 3_47.5	47.5	38	—	—	102	100	128	128	427	85
F 31 3_52.1	52.1	33	—	—	100	95	126	126	427	83
F 31 3_62.8	62.8	28	—	—	93	90	119	119	427	76
F 31 3_69.1	69.1	24	40	40	88	85	114	114	427	71
F 31 3_78.9	78.9	17	33	33	83	81	109	109	403	66
F 31 3_87.4	87.4	16	33	33	81	78	107	107	403	64
F 31 3_101.9	101.9	13	31	28	78	76	104	104	403	62
F 31 3_112.5	112.5	11	28	28	76	74	102	102	403	59
F 31 3_128.4	128.4	9.0	26	26	74	71	100	100	403	57
F 31 3_140.7	140.7	8.3	26	26	74	71	100	100	403	57
F 31 3_150.8	150.8	7.4	24	24	74	69	100	100	—	57
F 31 3_166.8	166.8	6.6	24	24	71	69	97	97	—	55
F 31 3_185.4	185.4	5.7	24	24	71	69	97	97	—	55
F 31 3_202.3	202.3	5.0	22	22	71	66	97	97	—	55
F 31 3_228.2	228.2	4.3	22	21	69	66	95	95	—	52
F 31 3_253.6	253.6	3.8	21	21	69	66	95	95	—	52
F 31 3_293.8	293.8	3.1	20	20	69	66	95	95	—	52
F 31 3_332.8	332.8	2.6	19	19	69	64	95	95	—	52
F 31 3_374.4	374.4	2.4	19	19	69	64	93	93	—	52
F 31 4_418.9	418.9	2.1	20	20	69	66	93	93	—	18
F 31 4_462.6	462.6	1.9	20	20	69	64	93	93	—	18
F 31 4_527.8	527.8	1.9	20	20	69	64	93	93	—	18
F 31 4_578.6	578.6	1.9	20	20	69	64	93	93	—	18
F 31 4_619.9	619.9	1.7	20	20	69	64	93	93	—	18
F 31 4_685.6	685.6	1.7	20	20	69	64	93	93	—	18
F 31 4_762.3	762.3	1.7	20	20	69	64	93	93	—	18
F 31 4_831.6	831.6	1.7	20	20	69	64	93	93	—	18
F 31 4_938.2	938.2	1.7	20	20	69	64	93	93	—	18
F 31 4_1042	1042	1.7	20	20	69	64	93	93	—	18
F 31 4_1208	1208	1.4	20	19	69	64	93	93	—	18
F 31 4_1368	1368	1.4	20	19	69	64	93	93	—	18
F 31 4_1539	1539	1.4	20	19	69	64	93	93	—	18



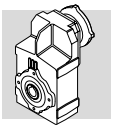
F 31

	i	J (•10-4) [lb•ft2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
F 31 2_6.9	6.9	119	—	—	185	522	168
F 31 2_8.2	8.2	88	—	—	154	475	138
F 31 2_9.0	9.0	76	—	—	142	475	126
F 31 2_10.7	10.7	83	—	—	150	475	133
F 31 2_12.7	12.7	62	—	—	128	451	112
F 31 2_13.9	13.9	55	—	—	121	451	104
F 31 2_16.8	16.8	43	—	—	109	427	93
F 31 2_18.5	18.5	36	52	52	100	427	83
F 31 2_21.1	21.1	26	43	43	93	427	76
F 31 2_23.4	23.4	24	40	40	88	427	71
F 31 2_27.3	27.3	19	36	36	83	403	66
F 31 2_30.1	30.1	15	33	33	81	403	64
F 31 2_34.4	34.4	13	31	31	78	403	62
F 31 2_37.7	37.7	11	28	28	76	403	59
F 31 2_40.4	40.4	10	26	26	76	—	59
F 31 2_44.6	44.6	8,8	26	26	74	—	57
F 31 3_47.5	47.5	38	—	—	102	427	85
F 31 3_52.1	52.1	33	—	—	100	427	83
F 31 3_62.8	62.8	28	—	—	93	427	76
F 31 3_69.1	69.1	24	40	40	88	427	71
F 31 3_78.9	78.9	17	33	33	83	403	66
F 31 3_87.4	87.4	16	33	33	81	403	64
F 31 3_101.9	101.9	13	31	31	78	403	62
F 31 3_112.5	112.5	11	28	28	76	403	59
F 31 3_128.4	128.4	9,0	26	26	74	403	57
F 31 3_140.7	140.7	8,3	26	26	74	403	57
F 31 3_150.8	150.8	7,4	24	24	74	—	57
F 31 3_166.8	166.8	6,6	24	24	71	—	55
F 31 3_185.4	185.4	5,7	24	24	71	—	55
F 31 3_202.3	202.3	5,0	22	22	71	—	55
F 31 3_228.2	228.2	4,3	22	22	69	—	52
F 31 3_253.6	253.6	3,8	21	21	69	—	52
F 31 3_293.8	293.8	3,1	20	20	69	—	52
F 31 3_332.8	332.8	2,6	19	19	69	—	52
F 31 3_374.4	374.4	2,4	19	19	69	—	52
F 31 4_418.9	418.9	2,1	20	20	69	—	18
F 31 4_462.6	462.6	1,9	20	20	69	—	18
F 31 4_527.8	527.8	1,9	20	20	69	—	18
F 31 4_578.6	578.6	1,9	20	20	69	—	18
F 31 4_619.9	619.9	1,7	20	20	69	—	18
F 31 4_685.6	685.6	1,7	20	20	69	—	18
F 31 4_762.3	762.3	1,7	20	20	69	—	18
F 31 4_831.6	831.6	1,7	20	20	69	—	18
F 31 4_938.2	938.2	1,7	20	20	69	—	18
F 31 4_1042	1042	1,7	20	20	69	—	18
F 31 4_1208	1208	1,4	20	20	69	—	18
F 31 4_1368	1368	1,4	20	20	69	—	18
F 31 4_1539	1539	1,4	20	20	69	—	18



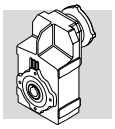
F 31

	i	J (•10-4) [lb•ft2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 31 2_6.9	6.9	—	—	—	—	—	—	185	197	180	204	180	204
F 31 2_8.2	8.2	—	—	—	—	—	—	154	166	150	173	150	173
F 31 2_9.0	9.0	—	—	—	—	—	—	142	154	138	161	138	161
F 31 2_10.7	10.7	—	—	—	—	—	—	150	161	147	171	147	171
F 31 2_12.7	12.7	—	—	—	—	—	—	128	140	126	150	126	150
F 31 2_13.9	13.9	—	—	—	—	—	—	121	133	116	140	116	140
F 31 2_16.8	16.8	—	—	—	—	—	—	109	121	104	128	104	128
F 31 2_18.5	18.5	43	47	43	52	102	114	100	112	97	121	97	121
F 31 2_21.1	21.1	33	38	33	43	93	102	93	104	88	112	88	112
F 31 2_23.4	23.4	31	36	31	40	90	102	88	100	85	109	85	109
F 31 2_27.3	27.3	26	31	26	36	85	95	83	95	81	104	81	104
F 31 2_30.1	30.1	22	28	22	33	83	93	81	93	78	102	78	102
F 31 2_34.4	34.4	19	26	19	31	81	90	78	90	76	100	76	100
F 31 2_37.7	37.7	18	24	18	28	78	88	76	88	74	97	74	97
F 31 2_40.4	40.4	16	23	17	26	76	88	76	88	71	95	71	95
F 31 2_44.6	44.6	15	21	16	26	76	85	74	85	71	95	71	95
F 31 3_47.5	47.5	—	—	—	—	—	—	102	114	100	123	100	123
F 31 3_52.1	52.1	—	—	—	—	—	—	100	112	95	119	95	119
F 31 3_62.8	62.8	—	—	—	—	—	—	93	104	90	114	90	114
F 31 3_69.1	69.1	31	36	31	40	90	102	88	100	85	109	85	109
F 31 3_78.9	78.9	23	31	24	33	83	95	83	95	81	104	81	104
F 31 3_87.4	87.4	22	28	23	33	83	93	81	93	78	102	78	102
F 31 3_101.9	101.9	19	26	20	31	81	90	78	90	76	100	76	100
F 31 3_112.5	112.5	17	23	18	28	78	88	76	88	74	97	74	97
F 31 3_128.4	128.4	15	22	16	26	76	85	74	85	71	95	71	95
F 31 3_140.7	140.7	15	21	15	26	76	85	74	85	71	95	71	95
F 31 3_150.8	150.8	14	20	14	24	74	85	74	85	69	93	69	93
F 31 3_166.8	166.8	13	19	14	24	74	83	71	83	69	93	69	93
F 31 3_185.4	185.4	12	18	13	23	74	83	71	83	69	93	69	93
F 31 3_202.3	202.3	11	18	12	22	71	83	71	83	66	90	66	90
F 31 3_228.2	228.2	11	17	11	22	71	81	69	81	66	90	66	90
F 31 3_253.6	253.6	10	16	11	21	71	81	69	81	66	90	66	90
F 31 3_293.8	293.8	9,5	16	10	20	71	81	69	81	66	90	66	90
F 31 3_332.8	332.8	9,0	15	—	—	—	—	69	81	64	88	64	88
F 31 3_374.4	374.4	8,8	15	—	—	—	—	69	81	64	88	64	88
F 31 4_418.9	418.9	8,5	15	9,0	19	69	78	69	81	66	90	—	—
F 31 4_462.6	462.6	8,3	14	8,8	19	69	78	69	81	64	88	—	—
F 31 4_527.8	527.8	8,3	14	8,8	19	69	78	69	81	64	88	—	—
F 31 4_578.6	578.6	8,3	14	8,8	19	69	78	69	81	64	88	—	—
F 31 4_619.9	619.9	8,1	14	8,5	19	69	78	69	81	64	88	—	—
F 31 4_685.6	685.6	8,1	14	8,5	19	69	78	69	81	64	88	—	—
F 31 4_762.3	762.3	8,1	14	8,5	19	69	78	69	81	64	88	—	—
F 31 4_831.6	831.6	8,1	14	8,5	19	69	78	69	81	64	88	—	—
F 31 4_938.2	938.2	8,1	14	8,5	19	69	78	69	81	64	88	—	—
F 31 4_1042	1042	8,1	14	8,5	19	69	78	69	81	64	88	—	—
F 31 4_1208	1208	7,8	14	8,3	19	69	78	69	81	64	88	—	—
F 31 4_1368	1368	7,8	14	8,3	19	69	78	69	81	64	88	—	—
F 31 4_1539	1539	20	14	8,3	19	69	78	69	81	64	88	—	—



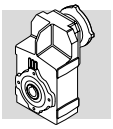
F 41

	i	J (•10-4) [lb•ft2]								
			IEC							
			63	71	80	90	100	112	132	
F 41 2_6.7	6.7	285	—	—	356	356	427	427	688	498
F 41 2_9.1	9.1	171	—	—	237	233	308	308	570	380
F 41 2_10.8	10.8	190	—	—	261	261	308	308	593	403
F 41 2_14.6	14.6	119	—	—	183	180	237	237	498	332
F 41 2_17.1	17.1	83	—	—	150	147	211	211	475	285
F 41 2_18.9	18.9	74	—	—	138	135	202	202	475	285
F 41 2_24.1	24.1	50	66	66	116	114	178	178	451	261
F 41 2_30.1	30.1	36	52	52	102	100	164	164	427	237
F 41 2_38.2	38.2	23	40	40	88	85	150	150	403	230
F 41 2_47.9	47.9	16	33	33	81	78	142	142	403	225
F 41 3_51.5	51.5	71	—	—	135	133	199	199	451	285
F 41 3_60.2	60.2	50	—	—	116	112	178	178	451	261
F 41 3_66.5	66.5	45	—	—	112	107	173	173	427	261
F 41 3_84.9	84.9	33	50	50	100	95	161	161	427	237
F 41 3_106.0	106.0	26	43	40	90	88	152	152	427	233
F 41 3_134.4	134.4	16	33	33	81	78	142	142	403	223
F 41 3_168.7	168.7	12	28	28	76	74	140	140	403	221
F 41 3_180.7	180.7	10	26	26	76	74	138	138	—	218
F 41 3_198.9	198.9	9.3	26	26	74	71	138	138	—	218
F 41 3_220.1	220.1	8.5	26	26	74	71	135	135	—	216
F 41 3_240.1	240.1	7.4	24	24	74	69	135	135	—	216
F 41 3_266.9	266.9	6.6	24	24	71	69	135	135	—	216
F 41 3_296.6	296.6	5.5	24	24	71	69	133	133	—	214
F 41 3_344.8	344.8	4.5	22	22	69	66	133	133	—	214
F 41 4_433.7	433.7	5.0	22	22	71	66	97	97	—	45
F 41 4_549.8	549.8	4.5	22	21	69	66	95	95	—	45
F 41 4_690.1	690.1	4.3	22	21	69	66	95	95	—	45
F 41 4_739.4	739.4	4.0	21	21	69	66	95	95	—	45
F 41 4_813.8	813.8	4.0	21	21	69	66	95	95	—	45
F 41 4_900.5	900.5	4.0	21	21	69	66	95	95	—	45
F 41 4_982.4	982.4	4.0	21	21	69	66	95	95	—	45
F 41 4_1092	1092	3.8	21	21	69	66	95	95	—	45
F 41 4_1213	1213	3.8	21	21	69	66	95	95	—	45
F 41 4_1411	1411	3.8	21	21	69	66	95	95	—	45



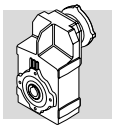
F 41

	i	J (•10-4) [lb•ft2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
F 41 2_6.7	6.7	285	—	—	356	688	498
F 41 2_9.1	9.1	171	—	—	237	570	380
F 41 2_10.8	10.8	190	—	—	261	593	403
F 41 2_14.6	14.6	119	—	—	183	498	332
F 41 2_17.1	17.1	83	—	—	150	475	285
F 41 2_18.9	18.9	74	—	—	138	475	285
F 41 2_24.1	24.1	50	66	66	116	451	261
F 41 2_30.1	30.1	36	52	52	102	427	237
F 41 2_38.2	38.2	23	40	40	88	403	230
F 41 2_47.9	47.9	16	33	33	81	403	225
F 41 3_51.5	51.5	71	—	—	135	451	285
F 41 3_60.2	60.2	50	—	—	116	451	261
F 41 3_66.5	66.5	45	—	—	112	427	261
F 41 3_84.9	84.9	33	50	50	100	427	237
F 41 3_106.0	106.0	26	43	43	90	427	233
F 41 3_134.4	134.4	16	33	33	81	403	223
F 41 3_168.7	168.7	12	28	28	76	403	221
F 41 3_180.7	180.7	10	26	26	76	—	218
F 41 3_198.9	198.9	9,3	26	26	74	—	218
F 41 3_220.1	220.1	8,5	26	26	74	—	216
F 41 3_240.1	240.1	7,4	24	24	74	—	216
F 41 3_266.9	266.9	6,6	24	24	71	—	216
F 41 3_296.6	296.6	5,5	24	24	71	—	214
F 41 3_344.8	344.8	4,5	22	22	69	—	214
F 41 4_433.7	433.7	5,0	22	22	71	—	45
F 41 4_549.8	549.8	4,5	22	22	69	—	45
F 41 4_690.1	690.1	4,3	22	22	69	—	45
F 41 4_739.4	739.4	4,0	21	21	69	—	45
F 41 4_813.8	813.8	4,0	21	21	69	—	45
F 41 4_900.5	900.5	4,0	21	21	69	—	45
F 41 4_982.4	982.4	4,0	21	21	69	—	45
F 41 4_1092	1092	3,8	21	21	69	—	45
F 41 4_1213	1213	3,8	21	21	69	—	45
F 41 4_1411	1411	3,8	21	21	69	—	45



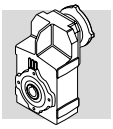
F 41

	i	J (•10-4) [lb•ft2]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 41 2_6.7	6.7	—	—	—	—	—	—	—	—	356	380	356	380	356	380	688	736	688	807
F 41 2_9.1	9.1	—	—	—	—	—	—	—	—	237	261	233	261	233	261	570	641	570	688
F 41 2_10.8	10.8	—	—	—	—	—	—	—	—	261	285	261	285	261	285	593	641	593	712
F 41 2_14.6	14.6	—	—	—	—	—	—	—	—	183	195	180	204	180	204	522	570	498	617
F 41 2_17.1	17.1	—	—	—	—	—	—	—	—	150	161	147	171	147	171	475	546	475	593
F 41 2_18.9	18.9	—	—	—	—	—	—	—	—	138	150	135	159	135	159	475	546	475	593
F 41 2_24.1	24.1	—	—	—	—	116	128	116	128	116	128	114	138	114	138	451	522	451	570
F 41 2_30.1	30.1	—	—	—	—	102	114	102	114	102	114	100	123	100	123	427	498	427	546
F 41 2_38.2	38.2	—	—	—	—	90	100	90	100	88	100	85	109	85	109	427	475	403	522
F 41 2_47.9	47.9	—	—	—	—	83	93	83	93	81	93	78	102	78	102	427	475	403	522
F 41 3_51.5	51.5	—	—	—	—	—	—	—	—	135	147	133	157	133	157	475	522	451	570
F 41 3_60.2	60.2	—	—	—	—	—	—	—	—	116	128	112	135	112	135	451	522	451	570
F 41 3_66.5	66.5	—	—	—	—	—	—	—	—	112	123	107	131	107	131	451	498	427	546
F 41 3_84.9	84.9	—	—	—	—	100	112	100	112	100	112	95	119	95	119	427	498	427	546
F 41 3_106.0	106.0	—	—	—	—	93	104	93	104	90	102	88	112	88	112	427	498	427	546
F 41 3_134.4	134.4	—	—	—	—	83	93	83	93	81	93	78	102	78	102	427	475	403	522
F 41 3_168.7	168.7	—	—	—	—	78	88	78	88	76	88	74	97	74	97	403	475	403	522
F 41 3_180.7	180.7	—	—	—	—	78	88	78	88	76	88	74	97	74	97	—	—	—	—
F 41 3_198.9	198.9	—	—	—	—	76	85	76	85	74	85	71	95	71	95	—	—	—	—
F 41 3_220.1	220.1	—	—	—	—	76	85	76	85	74	85	71	95	71	95	—	—	—	—
F 41 3_240.1	240.1	—	—	—	—	74	85	74	85	74	85	69	93	69	93	—	—	—	—
F 41 3_266.9	266.9	—	—	—	—	74	83	74	83	71	83	69	93	69	93	—	—	—	—
F 41 3_296.6	296.6	—	—	—	—	74	83	74	83	71	83	69	93	69	93	—	—	—	—
F 41 3_344.8	344.8	—	—	—	—	71	81	71	81	69	81	66	90	66	90	—	—	—	—
F 41 4_433.7	433.7	11	18	12	22	—	—	71	83	71	83	66	90	—	—	—	—	—	—
F 41 4_549.8	549.8	11	17	11	22	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_690.1	690.1	11	17	11	22	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_739.4	739.4	10	17	11	21	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_813.8	813.8	10	17	11	21	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_900.5	900.5	10	17	11	21	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_982.4	982.4	10	17	11	21	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_1092	1092	10	16	11	21	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_1213	1213	10	16	11	21	—	—	71	81	69	81	66	90	—	—	—	—	—	—
F 41 4_1411	1411	10	16	11	21	—	—	71	81	69	81	66	90	—	—	—	—	—	—



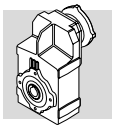
F 51

	i	J (•10-4) [lb•ft2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
F 51 2_7.2	7.2	593	—	—	664	664	712	712	997	2397	2444	807
F 51 2_9.1	9.1	403	—	—	475	451	522	522	783	2183	2231	617
F 51 2_11.1	11.1	380	—	—	451	451	522	522	783	2183	2231	593
F 51 2_14.0	14.0	261	—	—	332	332	403	403	664	2065	2112	475
F 51 2_18.8	18.8	166	—	—	233	228	285	285	570	1970	2017	380
F 51 2_23.8	23.8	107	—	—	173	171	235	235	498	1898	1946	308
F 51 2_30.0	30.0	74	90	90	140	138	202	202	475	1875	1922	285
F 51 2_37.1	37.1	52	71	71	119	116	180	180	451	1851	1898	261
F 51 3_48.9	48.9	147	—	—	211	209	285	285	546	1946	1993	356
F 51 3_65.8	65.8	100	—	—	164	161	228	228	498	1898	1946	308
F 51 3_83.2	83.2	64	—	—	131	128	192	192	451	1851	1898	285
F 51 3_105.1	105.1	47	64	64	114	109	176	176	451	1851	1898	261
F 51 3_129.9	129.9	36	52	52	102	97	164	164	427	1827	1875	237
F 51 3_165.6	165.6	23	40	40	88	85	150	150	403	1804	1851	230
F 51 3_202.4	202.4	17	33	33	83	78	145	145	403	1804	1851	225
F 51 3_216.9	216.9	15	33	31	81	78	142	142	—	—	—	223
F 51 3_239.8	239.8	14	31	31	81	76	142	142	—	—	—	223
F 51 3_262.1	262.1	13	31	31	78	76	140	140	—	—	—	221
F 51 3_285.9	285.9	11	28	28	76	74	138	138	—	—	—	218
F 51 3_317.3	317.3	9.3	26	26	76	71	138	138	—	—	—	218
F 51 3_352.5	352.5	6.6	26	26	74	71	135	135	—	—	—	216
F 51 4_429.1	429.1	8.5	26	26	74	71	135	135	—	—	—	57
F 51 4_530.5	530.5	7.8	26	24	74	71	135	135	—	—	—	57
F 51 4_676.3	676.3	7.1	24	24	74	69	135	135	—	—	—	57
F 51 4_826.4	826.4	6.6	24	24	71	69	135	135	—	—	—	55
F 51 4_885.5	885.5	6.6	24	24	71	69	135	135	—	—	—	55
F 51 4_979.4	979.4	6.6	24	24	71	69	135	135	—	—	—	55
F 51 4_1070	1070	6.4	24	24	71	69	133	133	—	—	—	55
F 51 4_1168	1168	6.4	24	24	71	69	133	133	—	—	—	55
F 51 4_1296	1296	6.2	24	24	71	69	133	133	—	—	—	55
F 51 4_1439	1439	6.2	24	24	71	69	133	133	—	—	—	55



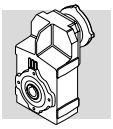
F 51

	i	J (•10-4) [lb•ft2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
F 51 2_7.2	7.2	593	—	—	664	997	2397	2444	807
F 51 2_9.1	9.1	403	—	—	475	783	2183	2231	617
F 51 2_11.1	11.1	380	—	—	451	783	2183	2231	593
F 51 2_14.0	14.0	261	—	—	332	664	2065	2112	475
F 51 2_18.8	18.8	166	—	—	233	570	1970	2017	380
F 51 2_23.8	23.8	107	—	—	173	498	1898	1946	308
F 51 2_30.0	30.0	74	90	90	140	475	1875	1922	285
F 51 2_37.1	37.1	52	71	71	119	451	1851	1898	261
F 51 3_48.9	48.9	147	—	—	211	546	1946	1993	356
F 51 3_65.8	65.8	100	—	—	164	498	1898	1946	308
F 51 3_83.2	83.2	64	—	—	131	451	1851	1898	285
F 51 3_105.1	105.1	47	64	64	114	451	1851	1898	261
F 51 3_129.9	129.9	36	52	52	102	427	1827	1875	237
F 51 3_165.6	165.6	23	40	40	88	403	1804	1851	230
F 51 3_202.4	202.4	17	33	33	83	403	1804	1851	225
F 51 3_216.9	216.9	15	33	33	81	—	—	—	223
F 51 3_239.8	239.8	14	31	31	81	—	—	—	223
F 51 3_262.1	262.1	13	31	31	78	—	—	—	221
F 51 3_285.9	285.9	11	28	28	76	—	—	—	218
F 51 3_317.3	317.3	9,3	26	26	76	—	—	—	218
F 51 3_352.5	352.5	6,6	26	26	74	—	—	—	216
F 51 4_429.1	429.1	8,5	26	26	74	—	—	—	57
F 51 4_530.5	530.5	7,8	26	26	74	—	—	—	57
F 51 4_676.3	676.3	7,1	24	24	74	—	—	—	57
F 51 4_826.4	826.4	6,6	24	24	71	—	—	—	55
F 51 4_885.5	885.5	6,6	24	24	71	—	—	—	55
F 51 4_979.4	979.4	6,6	24	24	71	—	—	—	55
F 51 4_1070	1070	6,4	24	24	71	—	—	—	55
F 51 4_1168	1168	6,4	24	24	71	—	—	—	55
F 51 4_1296	1296	6,2	24	24	71	—	—	—	55
F 51 4_1439	1439	6,2	24	24	71	—	—	—	55



F 51

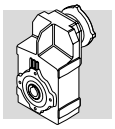
	i	J (•10-4) [lb•ft2]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 51 2_7.2	7.2	—	—	—	—	664	688	664	546	997	1044	997	1115
F 51 2_9.1	9.1	—	—	—	—	475	498	451	475	807	854	783	902
F 51 2_11.1	11.1	—	—	—	—	451	475	451	475	783	831	783	902
F 51 2_14.0	14.0	—	—	—	—	332	356	332	356	664	712	664	783
F 51 2_18.8	18.8	—	—	—	—	233	237	228	261	570	617	570	688
F 51 2_23.8	23.8	—	—	—	—	173	185	171	195	498	570	498	617
F 51 2_30.0	30.0	140	152	140	152	140	152	138	161	475	546	475	593
F 51 2_37.1	37.1	119	131	119	131	119	131	116	140	451	522	451	570
F 51 3_48.9	48.9	—	—	—	—	211	223	209	233	546	617	546	664
F 51 3_65.8	65.8	—	—	—	—	164	176	161	185	498	570	498	617
F 51 3_83.2	83.2	—	—	—	—	131	142	128	152	475	522	451	570
F 51 3_105.1	105.1	114	126	114	126	114	126	109	133	451	498	451	570
F 51 3_129.9	129.9	102	114	102	114	102	114	97	121	427	498	427	546
F 51 3_165.6	165.6	90	100	90	100	88	100	85	109	427	475	403	522
F 51 3_202.4	202.4	83	95	83	95	83	95	78	102	427	475	403	522
F 51 3_216.9	216.9	83	93	83	93	81	93	78	102	—	—	—	—
F 51 3_239.8	239.8	81	93	81	93	81	93	76	100	—	—	—	—
F 51 3_262.1	262.1	81	90	81	90	78	90	76	100	—	—	—	—
F 51 3_285.9	285.9	78	88	78	88	76	88	74	97	—	—	—	—
F 51 3_317.3	317.3	76	85	76	85	76	88	71	95	—	—	—	—
F 51 3_352.5	352.5	74	83	74	83	74	85	71	95	—	—	—	—
F 51 4_429.1	429.1	—	—	76	85	74	85	71	95	—	—	—	—
F 51 4_530.5	530.5	—	—	76	85	74	85	71	95	—	—	—	—
F 51 4_676.3	676.3	—	—	74	85	74	85	69	93	—	—	—	—
F 51 4_826.4	826.4	—	—	74	83	71	83	69	93	—	—	—	—
F 51 4_885.5	885.5	—	—	74	83	71	83	69	93	—	—	—	—
F 51 4_979.4	979.4	—	—	74	83	71	83	69	93	—	—	—	—
F 51 4_1070	1070	—	—	74	83	71	83	69	93	—	—	—	—
F 51 4_1168	1168	—	—	74	83	71	83	69	93	—	—	—	—
F 51 4_1296	1296	—	—	74	83	71	83	69	93	—	—	—	—
F 51 4_1439	1439	—	—	74	83	71	83	69	93	—	—	—	—



F 60

	i	J (•10-4) [lb•ft2]										
			IEC 63	IEC 71	IEC 80	IEC 90	IEC 100	IEC 112	IEC 132	IEC 160	IEC 180	
F 60 3_9.0	9.0	949	—	—	—	—	—	—	1400	2800	2753	1448
F 60 3_9.7	9.7	902	—	—	—	—	—	—	1353	2753	2705	1400
F 60 3_11.8	11.8	593	—	—	664	664	688	688	1044	2444	2397	1092
F 60 3_12.7	12.7	570	—	—	641	641	664	664	1020	2420	2373	1068
F 60 3_14.5	14.5	427	—	—	498	475	522	522	878	2278	2231	925
F 60 3_15.7	15.7	403	—	—	475	475	498	498	854	2254	2207	902
F 60 3_19.1	19.1	237	—	—	308	308	332	332	688	2112	2041	736
F 60 3_20.7	20.7	235	—	—	308	308	332	332	688	2088	2041	736
F 60 3_23.5	23.5	173	—	—	237	237	261	261	617	2041	1970	664
F 60 3_25.4	25.4	168	—	—	235	235	261	261	617	2017	1970	664
F 60 3_29.6	29.6	356	—	—	—	—	—	—	807	2207	2159	854
F 60 3_32.1	32.1	356	—	—	—	—	—	—	807	2207	2159	854
F 60 3_38.8	38.8	261	—	—	332	308	356	356	712	2112	2065	759
F 60 3_42.1	42.1	261	—	—	308	308	356	356	688	2112	2065	736
F 60 3_47.8	47.8	195	—	—	261	261	285	285	641	2041	1993	688
F 60 3_51.8	51.8	192	—	—	261	261	285	285	641	2041	1993	688
F 60 3_63.0	63.0	116	—	—	183	180	211	211	570	1970	1922	617
F 60 3_68.3	68.3	114	—	—	183	180	211	211	570	1970	1922	617
F 60 3_77.6	77.6	88	—	—	157	154	185	185	546	1946	1898	593
F 60 3_84.0	84.0	88	—	—	154	154	185	185	546	1946	1898	593
F 60 3_98.2	98.2	64	100	100	133	131	161	161	522	1922	1875	570
F 60 3_106.4	106.4	64	100	100	131	128	161	161	522	1922	1875	570
F 60 3_120.5	120.5	43	76	76	109	109	140	140	498	1898	1851	546
F 60 3_130.5	130.5	43	76	76	109	109	138	138	498	1898	1851	546
F 60 3_150.4	150.4	31	64	64	97	97	128	128	475	1898	1827	522
F 60 3_162.9	162.9	31	64	64	97	97	128	128	475	1898	1827	522
F 60 3_185.9	185.9	21	57	57	90	88	119	119	475	1875	1827	522
F 60 3_201.4	201.4	21	57	57	90	88	119	119	475	1875	1827	522
F 60 3_217.6	217.6	17	52	52	85	83	114	114	—	—	—	522
F 60 3_235.8	235.8	17	52	52	85	83	114	114	—	—	—	522
F 60 3_259.1	259.1	12	47	47	81	78	109	109	—	—	—	522
F 60 3_280.7	280.7	12	47	47	81	78	109	109	—	—	—	522

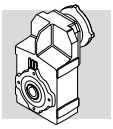
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 60

	i	J (•10-4) [lb•ft2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
F 60 3_9.0	9.0	949	—	—	—	1400	2800	2753	1448
F 60 3_9.7	9.7	902	—	—	—	1353	2753	2705	1400
F 60 3_11.8	11.8	593	—	—	664	1044	2444	2397	1092
F 60 3_12.7	12.7	570	—	—	641	1020	2420	2373	1068
F 60 3_14.5	14.5	427	—	—	498	878	2278	2231	925
F 60 3_15.7	15.7	403	—	—	475	854	2254	2207	902
F 60 3_19.1	19.1	237	—	—	308	688	2112	2041	736
F 60 3_20.7	20.7	235	—	—	308	688	2088	2041	736
F 60 3_23.5	23.5	173	—	—	237	617	2041	1970	664
F 60 3_25.4	25.4	168	—	—	235	617	2017	1970	664
F 60 3_29.6	29.6	356	—	—	—	807	2207	2159	854
F 60 3_32.1	32.1	356	—	—	—	807	2207	2159	854
F 60 3_38.8	38.8	261	—	—	332	712	2112	2065	759
F 60 3_42.1	42.1	261	—	—	308	688	2112	2065	736
F 60 3_47.8	47.8	195	—	—	261	641	2041	1993	688
F 60 3_51.8	51.8	192	—	—	261	641	2041	1993	688
F 60 3_63.0	63.0	116	—	—	183	570	1970	1922	617
F 60 3_68.3	68.3	114	—	—	183	570	1970	1922	617
F 60 3_77.6	77.6	88	—	—	157	546	1946	1898	593
F 60 3_84.0	84.0	88	—	—	154	546	1946	1898	593
F 60 3_98.2	98.2	64	100	100	133	522	1922	1875	570
F 60 3_106.4	106.4	64	100	100	131	522	1922	1875	570
F 60 3_120.5	120.5	43	76	76	109	498	1898	1851	546
F 60 3_130.5	130.5	43	76	76	109	498	1898	1851	546
F 60 3_150.4	150.4	31	64	64	97	475	1898	1827	522
F 60 3_162.9	162.9	31	64	64	97	475	1898	1827	522
F 60 3_185.9	185.9	21	57	57	90	475	1875	1827	522
F 60 3_201.4	201.4	21	57	57	90	475	1875	1827	522
F 60 3_217.6	217.6	17	52	52	85	—	—	—	522
F 60 3_235.8	235.8	17	52	52	85	—	—	—	522
F 60 3_259.1	259.1	12	47	47	81	—	—	—	522
F 60 3_280.7	280.7	12	47	47	81	—	—	—	522

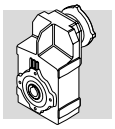
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F 60

	i	J (•10-4) [lb•ft2]									
		SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 60 3_9.0	9.0	—	—	—	—	—	—	1353	1400	1400	1519
F 60 3_9.7	9.7	—	—	—	—	—	—	1305	1353	1353	1471
F 60 3_11.8	11.8	—	—	664	688	664	688	997	1044	1044	1163
F 60 3_12.7	12.7	—	—	641	664	641	664	973	1020	1020	1139
F 60 3_14.5	14.5	—	—	498	522	475	498	831	878	878	997
F 60 3_15.7	15.7	—	—	475	498	475	498	807	854	854	973
F 60 3_19.1	19.1	—	—	308	332	308	332	641	688	688	807
F 60 3_20.7	20.7	—	—	308	332	308	332	641	688	688	807
F 60 3_23.5	23.5	—	—	237	261	237	261	570	641	617	736
F 60 3_25.4	25.4	—	—	235	237	235	261	570	641	617	736
F 60 3_29.6	29.6	—	—	—	—	—	—	759	807	807	925
F 60 3_32.1	32.1	—	—	—	—	—	—	759	807	807	925
F 60 3_38.8	38.8	—	—	332	356	308	332	664	712	712	831
F 60 3_42.1	42.1	—	—	308	332	308	332	664	712	688	807
F 60 3_47.8	47.8	—	—	261	285	261	285	593	664	641	759
F 60 3_51.8	51.8	—	—	261	285	261	285	593	664	641	759
F 60 3_63.0	63.0	—	—	183	195	180	204	522	570	570	688
F 60 3_68.3	68.3	—	—	183	195	180	204	522	570	570	688
F 60 3_77.6	77.6	—	—	157	168	154	178	498	546	546	664
F 60 3_84.0	84.0	—	—	154	166	154	178	498	546	546	664
F 60 3_98.2	98.2	—	—	133	145	131	154	475	522	522	641
F 60 3_106.4	106.4	131	142	131	142	128	152	475	522	522	641
F 60 3_120.5	120.5	52	64	109	121	109	133	451	498	498	617
F 60 3_130.5	130.5	52	64	109	121	109	133	451	498	498	617
F 60 3_150.4	150.4	97	109	97	109	97	121	427	498	475	593
F 60 3_162.9	162.9	97	109	97	109	97	121	427	498	475	593
F 60 3_185.9	185.9	88	100	90	102	88	112	427	475	475	593
F 60 3_201.4	201.4	88	100	90	102	88	112	427	475	475	593
F 60 3_217.6	217.6	83	95	85	97	83	107	—	—	—	—
F 60 3_235.8	235.8	83	95	85	97	83	107	—	—	—	—
F 60 3_259.1	259.1	78	90	81	93	78	102	—	—	—	—
F 60 3_280.7	280.7	78	90	81	93	78	102	—	—	—	—

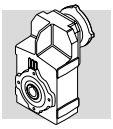
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 70

	i	J (•10-4) [lb•ft2]									
			IEC 								
			80	90	100	112	132	160	180	200	
F 70 3_10.0	10.0	—	—	—	—	—	—	4010	3963	4177	3156
F 70 3_10.9	10.9	—	—	—	—	—	—	3939	3868	4105	3061
F 70 3_12.8	12.8	—	—	—	—	—	—	3299	3251	3465	2420
F 70 3_13.9	13.9	—	—	—	—	—	—	3251	3204	3417	2373
F 70 3_16.3	16.3	925	—	—	—	—	1376	2776	2729	2943	1898
F 70 3_17.7	17.7	878	—	—	—	—	1329	2753	2682	2919	1875
F 70 3_20.9	20.9	617	—	—	—	—	1068	2492	2420	—	1614
F 70 3_22.6	22.6	617	—	—	—	—	1044	2468	2420	—	1590
F 70 3_24.6	24.6	498	—	—	—	—	949	2349	2302	—	1471
F 70 3_27.7	27.7	—	—	—	—	—	—	3037	2990	3204	1732
F 70 3_30.0	30.0	—	—	—	—	—	—	3014	2966	3180	1732
F 70 3_35.4	35.4	—	—	—	—	—	—	2705	2658	2871	1827
F 70 3_38.4	38.4	—	—	—	—	—	—	2705	2634	2871	1827
F 70 3_45.2	45.2	546	—	—	—	—	997	2397	2349	2563	1542
F 70 3_49.0	49.0	546	—	—	—	—	997	2397	2349	2563	1542
F 70 3_57.7	57.7	403	—	—	—	—	854	2254	2207	—	1376
F 70 3_62.5	62.5	403	—	—	—	—	854	2254	2207	—	1376
F 70 3_67.9	67.9	332	—	—	—	—	783	2183	2136	—	1305
F 70 3_73.6	73.6	332	—	—	—	—	783	2183	2136	—	1305
F 70 3_85.4	85.4	214	261	261	308	—	664	2065	2017	—	1187
F 70 3_92.5	92.5	214	261	261	308	308	664	2065	2017	—	1187
F 70 3_101.2	101.2	150	211	209	237	237	593	2017	1946	—	1115
F 70 3_109.6	109.6	150	211	209	237	237	593	2017	1946	—	1115
F 70 3_122.7	122.7	121	187	185	216	216	570	1970	1922	—	1092
F 70 3_133.0	133.0	121	187	185	216	216	570	1970	1922	—	1092
F 70 3_153.8	153.8	76	142	142	173	173	522	1922	1875	—	1044
F 70 3_166.7	166.7	76	142	142	173	173	522	1922	1875	—	1044
F 70 3_180.9	180.9	55	121	121	150	150	498	1922	1851	—	1020
F 70 3_196.0	196.0	55	121	119	150	150	498	1922	1851	—	1020

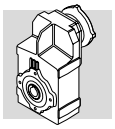
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F 70

	i	J (•10-4) [lb•ft2]				
			NEMA			
			N210TC	N250TC	N280TC	
F 70 3_10.0	10.0	—	—	4010	3963	3156
F 70 3_10.9	10.9	—	—	3939	3868	3061
F 70 3_12.8	12.8	—	—	3299	3251	2420
F 70 3_13.9	13.9	—	—	3251	3204	2373
F 70 3_16.3	16.3	925	1376	2776	2729	1898
F 70 3_17.7	17.7	878	1329	2753	2682	1875
F 70 3_20.9	20.9	617	1068	2492	2420	1614
F 70 3_22.6	22.6	617	1044	2468	2420	1590
F 70 3_24.6	24.6	498	949	2349	2302	1471
F 70 3_27.7	27.7	—	—	3037	2990	1732
F 70 3_30.0	30.0	—	—	3014	2966	1732
F 70 3_35.4	35.4	—	—	2705	2658	1827
F 70 3_38.4	38.4	—	—	2705	2634	1827
F 70 3_45.2	45.2	546	997	2397	2349	1542
F 70 3_49.0	49.0	546	997	2397	2349	1542
F 70 3_57.7	57.7	403	854	2254	2207	1376
F 70 3_62.5	62.5	403	854	2254	2207	1376
F 70 3_67.9	67.9	332	783	2183	2136	1305
F 70 3_73.6	73.6	332	783	2183	2136	1305
F 70 3_85.4	85.4	214	664	2065	2017	1187
F 70 3_92.5	92.5	214	664	2065	2017	1187
F 70 3_101.2	101.2	150	593	2017	1946	1115
F 70 3_109.6	109.6	150	593	2017	1946	1115
F 70 3_122.7	122.7	121	570	1970	1922	1092
F 70 3_133.0	133.0	121	570	1970	1922	1092
F 70 3_153.8	153.8	76	522	1922	1875	1044
F 70 3_166.7	166.7	76	522	1922	1875	1044
F 70 3_180.9	180.9	55	498	1922	1851	1020
F 70 3_196.0	196.0	55	498	1922	1851	1020

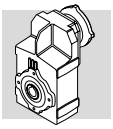
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 80

	i	J (•10-4) [lb•ft2]										
			IEC 80	IEC 90	IEC 100	IEC 112	IEC 132	IEC 160	IEC 180	IEC 200	IEC 225	
F 80 3_10.3	10.3	—	—	—	—	—	—	—	6787	7119	13716	5980
F 80 3_11.2	11.2	—	—	—	—	—	—	—	6573	6906	13503	5790
F 80 3_12.9	12.9	—	—	—	—	—	—	5149	5173	5482	12079	4366
F 80 3_14.0	14.0	—	—	—	—	—	—	5031	5031	5363	11960	4224
F 80 3_16.2	16.2	—	—	—	—	—	—	4105	4058	4271	11011	3227
F 80 3_17.6	17.6	—	—	—	—	—	—	4034	3963	4200	10940	3156
F 80 3_20.3	20.3	1424	—	—	—	—	1875	3299	3227	3465	10228	2420
F 80 3_22.0	22.0	1376	—	—	—	—	1827	3227	3180	3393	10180	2373
F 80 3_25.2	25.2	1020	—	—	—	—	1471	2871	2824	3560	9801	1993
F 80 3_28.8	28.8	—	—	—	—	—	—	—	4485	4817	11391	3678
F 80 3_31.3	31.3	—	—	—	—	—	—	—	4461	4770	11367	3654
F 80 3_36.0	36.0	—	—	—	—	—	—	3678	3678	4010	10607	2871
F 80 3_39.0	39.0	—	—	—	—	—	—	3654	3654	3987	10584	2871
F 80 3_45.3	45.3	—	—	—	—	—	—	3156	3132	3346	10085	2302
F 80 3_49.1	49.1	—	—	—	—	—	—	3156	3109	3322	10085	2302
F 80 3_56.7	56.7	831	—	—	—	—	1281	2682	2634	2848	9635	1827
F 80 3_61.5	61.5	831	—	—	—	—	1281	2682	2634	2848	9635	1804
F 80 3_70.4	70.4	641	—	—	—	—	1092	2492	2444	3156	9421	1614
F 80 3_76.3	76.3	641	—	—	—	—	1068	2492	2444	3156	9397	1614
F 80 3_85.2	85.2	475	—	—	—	—	925	2349	2278	2990	9231	1471
F 80 3_92.3	92.3	475	—	—	—	—	925	2349	2278	2990	9231	1448
F 80 3_105.0	105.0	332	380	380	403	403	759	2183	2136	2824	9089	1305
F 80 3_113.8	113.8	332	380	380	403	403	759	2183	2136	2824	9065	1305
F 80 3_122.5	122.5	308	356	356	403	403	759	2159	2112	2800	9041	1281
F 80 3_132.7	132.7	308	356	356	380	380	736	2159	2112	2800	9041	1281
F 80 3_147.9	147.9	202	261	261	308	308	641	2065	2017	2705	8946	1187
F 80 3_160.2	160.2	202	261	261	308	308	641	2065	1993	—	—	1187
F 80 3_184.6	184.6	121	187	185	216	216	570	1970	1922	—	—	1092
F 80 3_200.0	200.0	119	187	185	216	216	570	1970	1922	—	—	1092

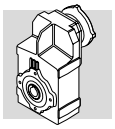
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F 80

	i	J (•10-4) [lb•ft2]					
			 NEMA				
			N210TC	N250TC	N280TC	N320TC	
F 80 3_10.3	10.3	—	—	—	6787	13716	5980
F 80 3_11.2	11.2	—	—	—	6573	13503	5790
F 80 3_12.9	12.9	—	—	5149	5173	12079	4366
F 80 3_14.0	14.0	—	—	5031	5031	11960	4224
F 80 3_16.2	16.2	—	—	4105	4058	11011	3227
F 80 3_17.6	17.6	—	—	4034	3963	10940	3156
F 80 3_20.3	20.3	1424	1875	3299	3227	10228	2420
F 80 3_22.0	22.0	1376	1827	3227	3180	10180	2373
F 80 3_25.2	25.2	1020	1471	2871	2824	9801	1993
F 80 3_28.8	28.8	—	—	—	4485	11391	3678
F 80 3_31.3	31.3	—	—	—	4461	11367	3654
F 80 3_36.0	36.0	—	—	3678	3678	10607	2871
F 80 3_39.0	39.0	—	—	3654	3654	10584	2871
F 80 3_45.3	45.3	—	—	3156	3132	10085	2302
F 80 3_49.1	49.1	—	—	3156	3109	10085	2302
F 80 3_56.7	56.7	831	1281	2682	2634	9635	1827
F 80 3_61.5	61.5	831	1281	2682	2634	9635	1804
F 80 3_70.4	70.4	641	1092	2492	2444	9421	1614
F 80 3_76.3	76.3	641	1068	2492	2444	9397	1614
F 80 3_85.2	85.2	475	925	2349	2278	9231	1471
F 80 3_92.3	92.3	475	925	2349	2278	9231	1448
F 80 3_105.0	105.0	332	759	2183	2136	9089	1305
F 80 3_113.8	113.8	332	759	2183	2136	9065	1305
F 80 3_122.5	122.5	308	759	2159	2112	9041	1281
F 80 3_132.7	132.7	308	736	2159	2112	9041	1281
F 80 3_147.9	147.9	202	641	2065	2017	8946	1187
F 80 3_160.2	160.2	202	641	2065	1993	—	1187
F 80 3_184.6	184.6	121	570	1970	1922	—	1092
F 80 3_200.0	200.0	119	570	1970	1922	—	1092

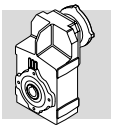
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F 90

	i	J (•10-4) [lb•ft2]											
			IEC										
			80	90	100	112	132	160	180	200	225	250	
F 90 3_10.3	10.3	—	—	—	—	—	—	—	13028	13265	20005	20645	20171
F 90 3_11.1	11.1	—	—	—	—	—	—	—	12553	12791	19530	20171	19696
F 90 3_13.4	13.4	—	—	—	—	—	—	—	8851	9089	15828	16469	15994
F 90 3_14.5	14.5	—	—	—	—	—	—	—	8567	8804	15543	16184	15709
F 90 3_16.5	16.5	—	—	—	—	—	—	—	6787	7024	13764	14404	13930
F 90 3_17.9	17.9	—	—	—	—	—	—	—	6597	6834	13574	14214	13740
F 90 3_20.6	20.6	—	—	—	—	—	—	5316	5268	5505	12245	12862	12174
F 90 3_22.3	22.3	—	—	—	—	—	—	5221	5149	5387	12126	12743	12055
F 90 3_25.4	25.4	2444	—	—	—	—	2895	4295	4248	4461	11248	11865	11177
F 90 3_28.6	28.6	—	—	—	—	—	—	—	6906	7143	13882	14547	14072
F 90 3_31.0	31.0	—	—	—	—	—	—	—	6858	7095	13835	14476	14001
F 90 3_37.4	37.4	—	—	—	—	—	—	—	5268	5505	12245	12886	12411
F 90 3_40.5	40.5	—	—	—	—	—	—	—	5221	5458	12197	12838	12364
F 90 3_46.1	46.1	—	—	—	—	—	—	—	4414	4651	11391	12031	11557
F 90 3_49.9	49.9	—	—	—	—	—	—	—	4390	4627	11367	12008	11533
F 90 3_57.3	57.3	—	—	—	—	—	—	3821	3749	3987	10726	11367	10679
F 90 3_62.1	62.1	—	—	—	—	—	—	3797	3749	3963	10702	11343	10655
F 90 3_70.8	70.8	1448	—	—	—	—	1898	3299	3251	3465	10252	10869	10180
F 90 3_76.7	76.7	1424	—	—	—	—	1875	3299	3227	3465	10228	10869	10180
F 90 3_88.4	88.4	1044	—	—	—	—	1495	2919	2848	3583	9824	10465	9777
F 90 3_95.8	95.8	1044	—	—	—	—	1495	2895	2848	3583	9824	10465	9777
F 90 3_103.3	103.3	973	—	—	—	—	1400	2824	2776	3465	9729	10346	9682
F 90 3_111.9	111.9	949	—	—	—	—	1400	2824	2753	3465	9706	10346	9658
F 90 3_126.8	126.8	617	688	688	712	712	1068	2492	2420	3132	9373	10014	9326
F 90 3_137.3	137.3	617	688	688	712	712	1068	2468	2420	3132	9373	10014	9326
F 90 3_150.3	150.3	498	570	570	593	593	949	2373	2302	3014	9255	9896	9207
F 90 3_162.8	162.8	498	570	570	593	593	949	2373	2302	3014	9255	9896	9207
F 90 3_179.2	179.2	332	380	380	427	427	783	2183	2136	—	—	—	9041
F 90 3_194.2	194.2	332	380	380	403	403	783	2183	2136	—	—	—	9041

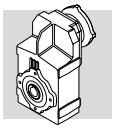
For the values of the moment of inertia of 4-stage gearboxes, please contact our Technical Service department.



F 90

	i	J (•10-4) [lb•ft2]					
			 NEMA				
			N210TC	N250TC	N280TC	N320TC	
F 90 3_10.3	10.3	—	—	—	13028	20005	20171
F 90 3_11.1	11.1	—	—	—	12553	19530	19696
F 90 3_13.4	13.4	—	—	—	8851	15828	15994
F 90 3_14.5	14.5	—	—	—	8567	15543	15709
F 90 3_16.5	16.5	—	—	—	6787	13764	13930
F 90 3_17.9	17.9	—	—	—	6597	13574	13740
F 90 3_20.6	20.6	—	—	5316	5268	12245	12174
F 90 3_22.3	22.3	—	—	5221	5149	12126	12055
F 90 3_25.4	25.4	2444	2895	4295	4248	11248	11177
F 90 3_28.6	28.6	—	—	—	6906	13882	14072
F 90 3_31.0	31.0	—	—	—	6858	13835	14001
F 90 3_37.4	37.4	—	—	—	5268	12245	12411
F 90 3_40.5	40.5	—	—	—	5221	12197	12364
F 90 3_46.1	46.1	—	—	—	4414	11391	11557
F 90 3_49.9	49.9	—	—	—	4390	11367	11533
F 90 3_57.3	57.3	—	—	3821	3749	10726	10679
F 90 3_62.1	62.1	—	—	3797	3749	10702	10655
F 90 3_70.8	70.8	1448	1898	3299	3251	10252	10180
F 90 3_76.7	76.7	1424	1875	3299	3227	10228	10180
F 90 3_88.4	88.4	1044	1495	2919	2848	9824	9777
F 90 3_95.8	95.8	1044	1495	2895	2848	9824	9777
F 90 3_103.3	103.3	973	1400	2824	2776	9729	9682
F 90 3_111.9	111.9	949	1400	2824	2753	9706	9658
F 90 3_126.8	126.8	617	1068	2492	2420	9373	9326
F 90 3_137.3	137.3	617	1068	2468	2420	9373	9326
F 90 3_150.3	150.3	498	949	2373	2302	9255	9207
F 90 3_162.8	162.8	498	949	2373	2302	9255	9207
F 90 3_179.2	179.2	332	783	2183	2136	—	9041
F 90 3_194.2	194.2	332	783	2183	2136	—	9041

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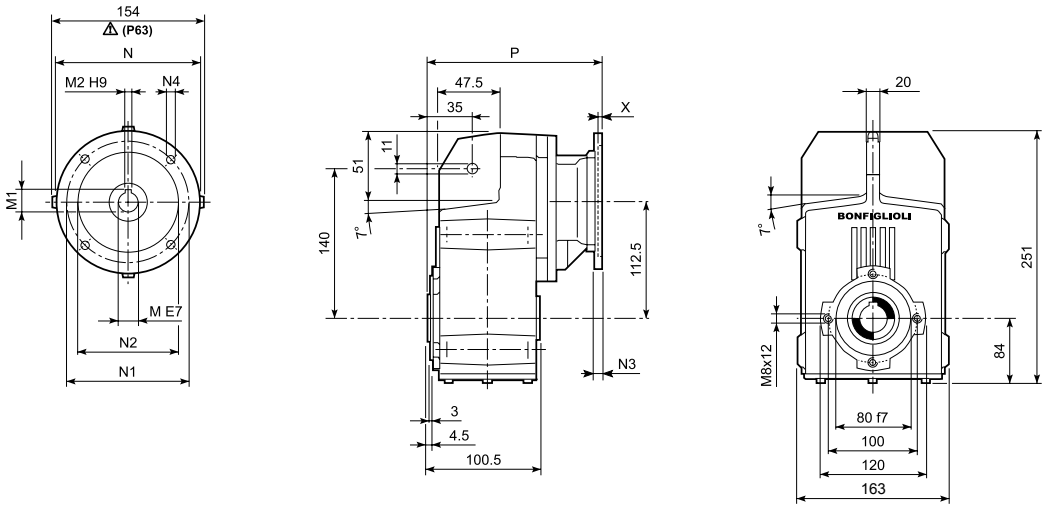
57 EXACT RATIOS

i_N	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
6.3		6.41210								
7.1	7.40443		6.86957	6.94907	6.72727	7.19408				
8.0		7.83478	8.39375	8.22917						
9.0	8.58204	8.73227	9.35526	9.01630	9.13580	9.05114	8.96000			
10.0	9.76974	10.03069	10.62451	10.74747			9.70667	10.01538	10.33846	10.26577
11.2	11.53759	11.23370			10.77273	11.11005	11.75320	10.85000	11.20000	11.12125
12.5	13.02632		12.98182	12.72727		13.97796	12.73263	12.81731	12.90240	13.41346
14.0	14.64777	14.79842	14.46890	13.94466	14.62963		14.47385	13.88542	13.97760	14.53125
16.0	16.97738		16.62032	16.80000	17.11667		15.68000	16.34455	16.24615	16.52538
18.0		18.08182	18.61364	18.48804	18.89130	18.82155	19.06872	17.70660	17.60000	17.90250
20.0	19.32692	20.15311	21.81818	21.11230			20.65778	20.86538	20.33231	20.56731
22.4	22.82418	23.14973	23.75758	23.38636		23.79447	23.46381	22.60417	22.02667	22.28125
25.0	25.76923	25.92614	27.20455	27.27273	24.11579		25.41913	24.55695	25.22585	25.38622
28.0	29.63462	30.38961	30.03636	30.12121	30.11875	30.03828	29.61538	27.69231	28.84615	28.61169
31.5	32.98462	33.09091	32.18182	34.36364			32.08333	30.00000	31.25000	30.99600
35.5	35.34066	37.89205	36.41958	37.67273	38.18333	37.13636	38.84771	35.43956	36.00000	37.38462
40.0	39.64497	41.83636	40.72727	40.36364			42.08502	38.39286	39.00000	40.50000
45.0	44.66667	44.82468	45.56607	44.64336	47.92667		47.84024	45.19231	45.32967	46.05785
50.0	48.72727	50.72727	50.78571	47.54630	51.49270	48.89965	51.82692	48.95833	49.10714	49.89600
56.0	56.69231	56.72727	58.33718	52.09420	60.24646		63.02761	57.69231	56.73077	57.32308
63.0	62.99145	61.88430	65.33371	62.76111	66.49275	65.84416	68.27991	62.50000	61.45833	62.10000
71.0	71.12308	69.13636	76.58163	69.06725			77.55467	73.55769	70.38462	70.75385
80.0	81.31624	76.81818	83.38889	78.87092	84.88166	83.24111	84.01756	85.38462	76.25000	76.65000
90.0	91.48077	90.40909	95.48772	87.36632			98.19838	92.50000	92.30769	88.39385
100.0	106.02198	101.63636	105.42738	101.88492	106.01061	105.08407	106.38158	101.18343	105.00000	103.33491
112.2		114.34091	112.95791	112.52623			120.45488	109.61538	113.75000	111.94615
125.5	127.12821	132.19481	127.83242	128.37500	134.39596	129.91558	130.49279	122.72727	122.48521	126.77538
140.0		156.30469	142.95238	140.73704			150.35503	132.95455	132.69231	150.30533
160.0		172.57500	155.94805	166.77778	168.69010	165.62338	162.88462	166.66667	160.22727	162.83077
180.0		184.90179	174.22321	185.43056	180.73939	202.39481	185.89349	180.94406	184.61538	179.21958
200.0		209.25000	193.58135	202.28788	198.92028	216.85158	201.38462	196.02273	200.00000	194.15455
225.0		234.00000	227.83036	228.22222	220.13131	239.84416	217.64679	216.52422	218.49174	213.59178
250.0		255.27273	256.12302	253.58025	240.14325	262.11039	259.08284	234.56790	273.89277	231.39109
280.0		285.18750	288.13839	293.83611	266.93818	285.93861	280.67308	280.93645	296.71717	268.72770
315.0		316.87500	333.13010	332.82407	296.59798	317.26753	315.38899	304.34783	353.67893	291.12168
355.0		372.93750		374.42708	344.79515	352.51948	341.67140	372.46964	383.15217	361.84615
400.0		419.25000	393.88686	418.86023		429.09330	399.34008	403.50877	451.49061	392.00000
450.0		471.65625	434.88795	462.60785	433.67975		432.61842	471.15385	489.11483	457.45099
500.0			465.95137	527.76389			489.84985	510.41667	563.87675	495.57191
560.0		545.30357	527.30872	578.58560	549.80165	530.48864	530.67067	606.83761	610.86648	577.48888
630.0			589.67857	619.91314	690.09587	676.29545	611.44379	657.40741	714.86014	625.61296
710.0			643.28571	685.64198	739.38843	826.44545	755.96686	758.97436	774.43182	713.95030
800.0			718.67076	762.32562	813.76478	885.47727	818.96410	822.22222	897.27273	773.44615
900.0			798.52307	831.62795	900.53719	979.36364	885.09695	899.40828	972.04545	910.18225
1000.0			939.80022	938.24691	982.40421	1070.28409	958.85503	974.35897	1058.06885	986.03077
1125.0			1056.50744	1042.49657	1092.01983	1167.58264	1053.60355	1090.90909	1146.24126	1112.25941
1250.0			1188.57087	1207.99290	1213.35537	1295.50909	1141.40385	1181.81818	1277.33630	1204.94769
1400.0			1374.16167	1368.27675	1410.52562	1439.45455		1367.52137	1383.78099	1427.90059
1600.0				1539.31134				1584.61538	1577.62238	1571.37386
1800.0								1716.66667	1709.09091	1702.32168
2000.0								2019.23077	1833.98601	1937.26864
2250.0								2187.50000	1986.81818	2098.70769

2x 3x 4x

58 DIMENSIONS

F 10...P(IEC)

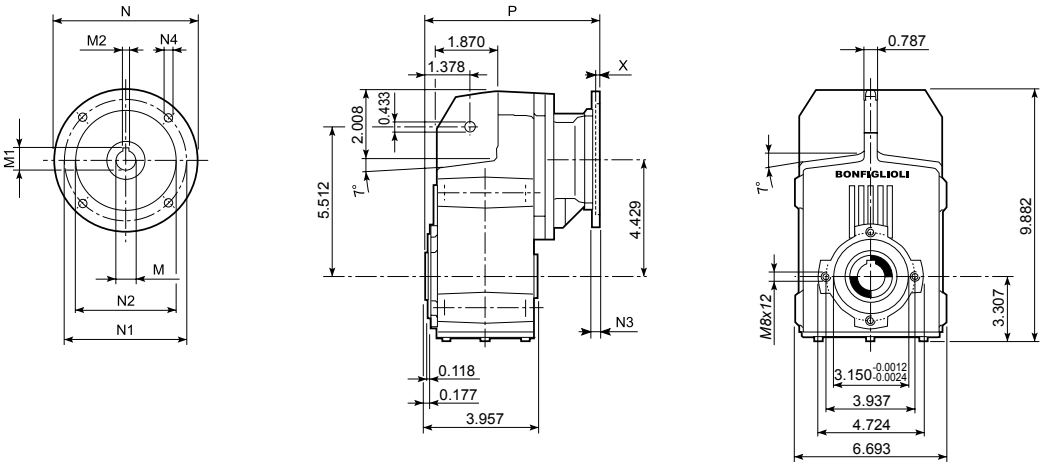


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 10 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
F 10 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
F 10 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	205	9
F 10 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	205	9
F 10 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	215	13
F 10 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	215	13

Metric output versions available also in combination with NEMA motor adaptor

F 10...N(NEMA Input)

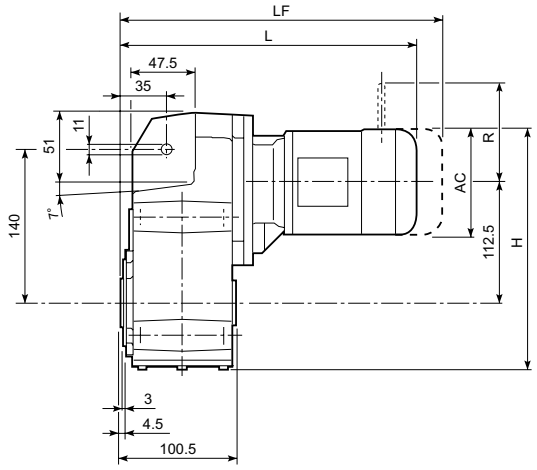


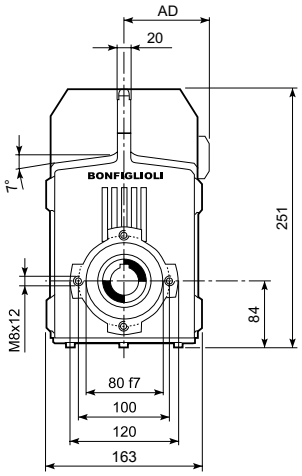
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 10 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.091	18
F 10 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.091	20
F 10 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	8.917	29

Imperial output versions available also in combination with IEC motor adaptor

F 10...M/ME/MX

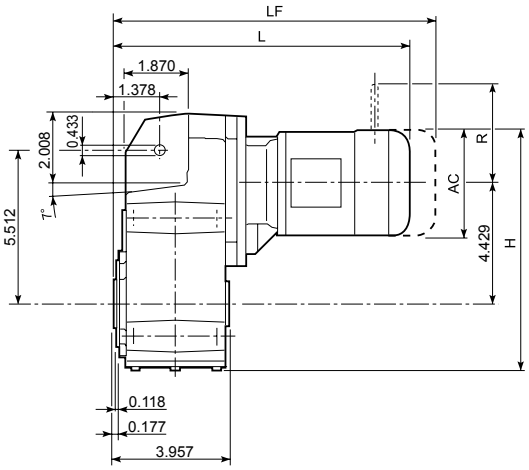


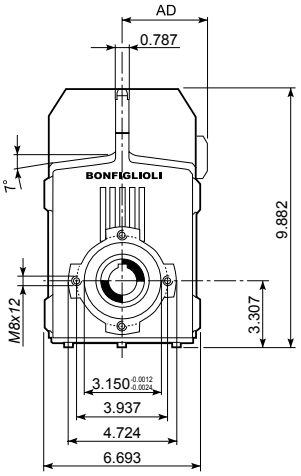


Dimensions are in mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 10 2	**S05**	**M05**	121	220.5	311.5	95	12	377.5	13	96	122	116	95
F 10 2	**S05**	**ME05**	121	220.5	311.5	95	12	377.5	13	96	119	116	119
F 10 2	**S1**	**M1**	138	265.5	340.5	108	14	401.5	17	103	135	124	108
F 10 2	**S1**	**ME1**	138	265.5	340.5	108	14	401.5	17	103	135	124	135
F 10 2	**S2**	**ME2S**	156	274.5	369.5	119	18	425.5	20.1	129	143	134	143
F 10 2	**S2**	**MX2S**	156	274.5	413.5	119	23	471.5	27.3	129	143	134	143
F 10 2	**S3**	**ME3S**	195	294	412.5	142	22	479.5	29.4	160	155	160	155
F 10 2	**S3**	**MX3S**	195	294	444.5	142	25	508.5	34.4	160	155	160	155
F 10 2	**S3**	**ME3L**	195	294	444.5	142	24	506.5	35.9	160	155	160	155
F 10 2	**S3**	**MX3L**	195	294	488.5	142	30	550.5	43.4	160	155	160	155

F 10...M/ME/MX

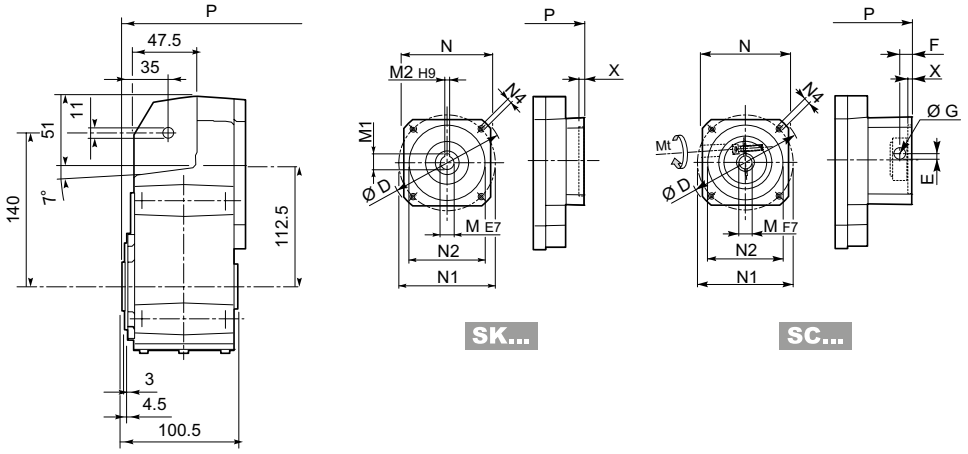




Dimensions are in Inch except when shown in *italic [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 10 2	**S05**	**M05**	4.764	8.681	12.264	3.740	26	14.862	29	3.780	4.803	4.567	3.740
F 10 2	**S1**	**M1**	5.433	10.453	13.406	4.252	31	15.807	37	4.055	5.315	4.882	4.252
F 10 2	**S2**	**ME2S**	6.142	10.807	14.547	4.685	40	—	—	—	—	—	—
F 10 2	**S2**	**MX2S**	6.142	10.807	16.280	4.685	51	—	—	—	—	—	—
F 10 2	**S3**	**ME3S**	7.677	11.575	16.240	5.591	49	—	—	—	—	—	—
F 10 2	**S3**	**MX3S**	7.677	11.575	17.500	5.591	55	—	—	—	—	—	—
F 10 2	**S3**	**ME3L**	7.677	11.575	17.500	5.591	53	—	—	—	—	—	—
F 10 2	**S3**	**MX3L**	7.677	11.575	19.232	5.591	66	—	—	—	—	—	—

F 10...SK / SC

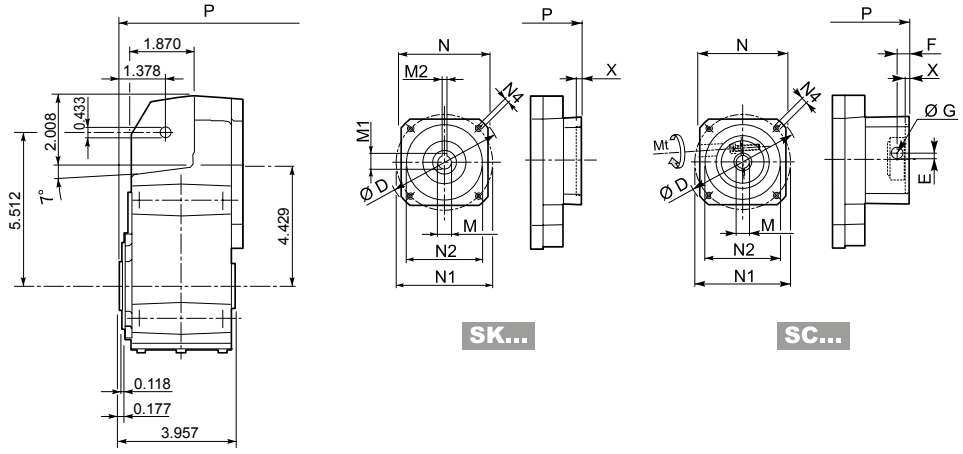


Dimensions are in mm

		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
F 10 2	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	157	8
F 10 2	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	164	8
F 10 2	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	164	8
F 10 2	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	205	9
F 10 2	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	205	9
F 10 2	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	205	9
F 10 2	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	205	9
F 10 2	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	205	9
F 10 2	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	205	9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
F 10 2	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	184	8
F 10 2	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	184	9
F 10 2	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	184	9
F 10 2	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	228.5	10
F 10 2	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	228.5	11
F 10 2	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	228.5	11

F 10...SK / SC

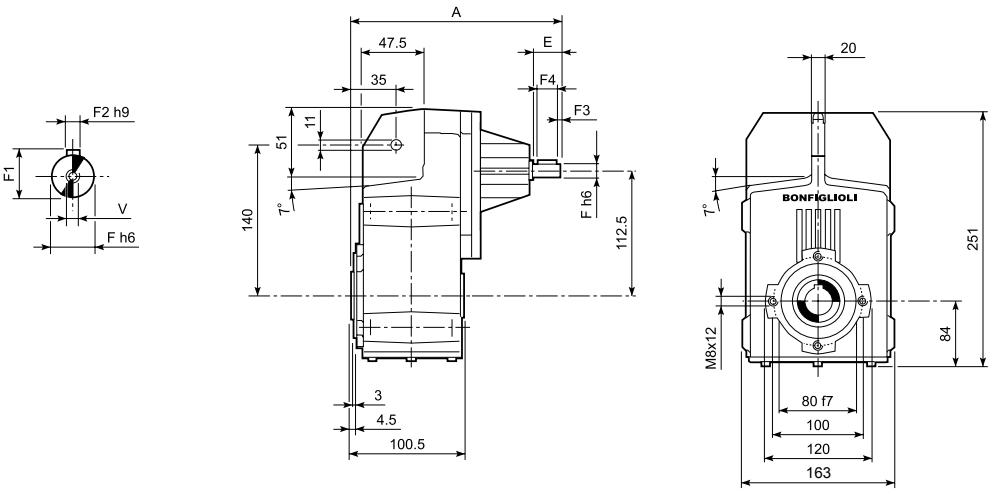


Dimensions are in Inch except when shown in *italic [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
F 10 2	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	6.181	18
F 10 2	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	6.457	18
F 10 2	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	6.457	18
F 10 2	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	8.071	20
F 10 2	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.071	20
F 10 2	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.071	20
F 10 2	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.071	20
F 10 2	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.071	20
F 10 2	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.071	20

		Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
F 10 2	**SC 60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.244	18
F 10 2	**SC 60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.244	20
F 10 2	**SC 80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	7.244	20
F 10 2	**SC 80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	8.996	22
F 10 2	**SC 95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	8.996	22
F 10 2	**SC 95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	8.996	22
F 10 2	**SC 95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	8.996	22
F 10 2	**SC 110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	8.996	24
F 10 2	**SC 110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	8.996	24

F 10...HS

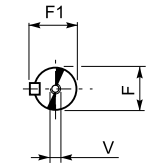


Dimensions are in mm

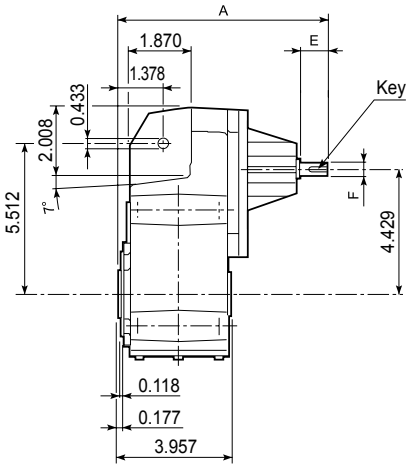
		A	E	F	F1	F2	F3	F4	V	Kg
F 10 2	**HS**	192	40	16	18	5	2.5	35	M6x16	7.5

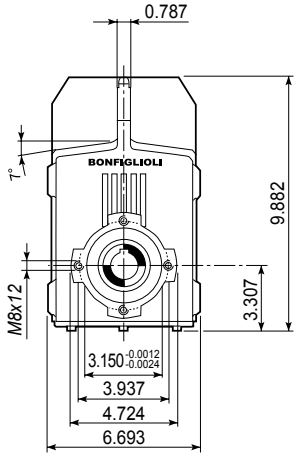
Metric output versions available also in combination with NHS input

F 10...NHS



INPUT
(Inch Series)



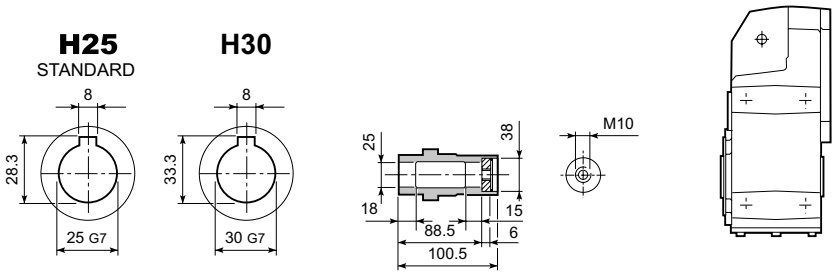


Dimensions are in Inch except when shown in *italic [mm]*

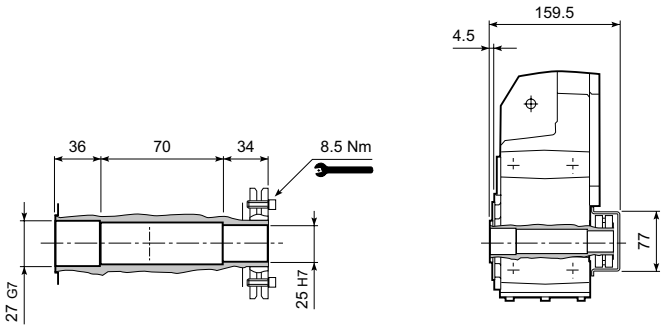
		A	E	F	F1	V	Key	lbs
F 10 2	**NHS**	7.559	1.575	0.625 $^{+0}_{-0.0004}$	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

Imperial output versions available also in combination with HS input

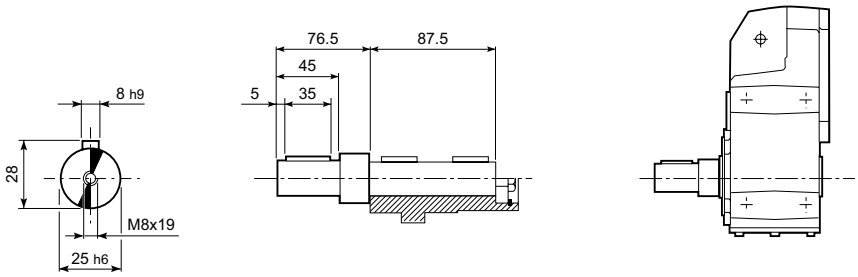
F 10...H



F 10...S

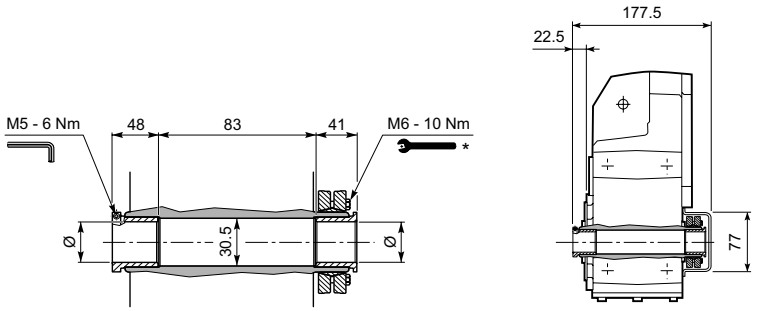


F 10...R

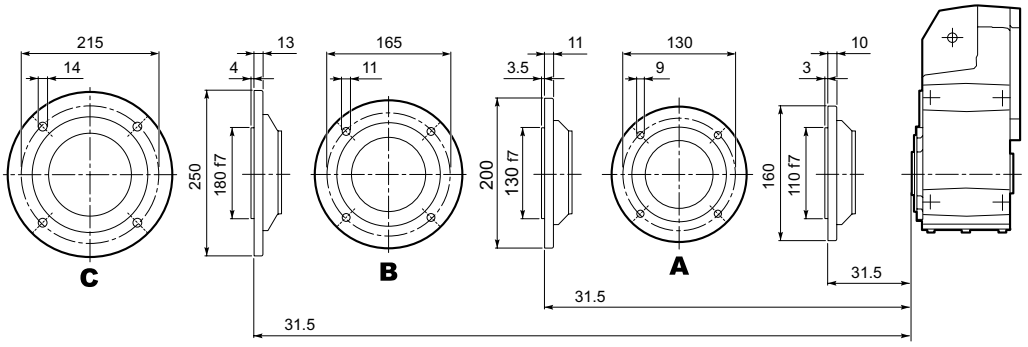


F 10...QF

	Ø
QF25	25
QF30	30



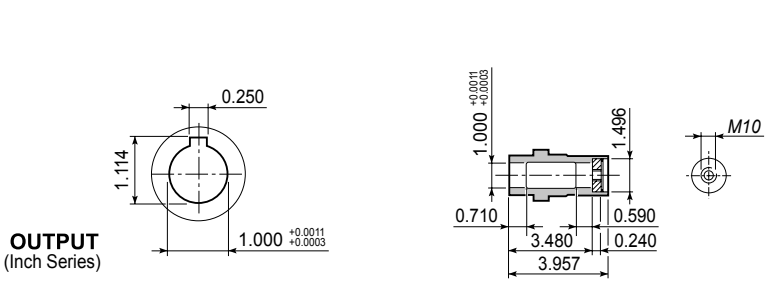
F 10...F...



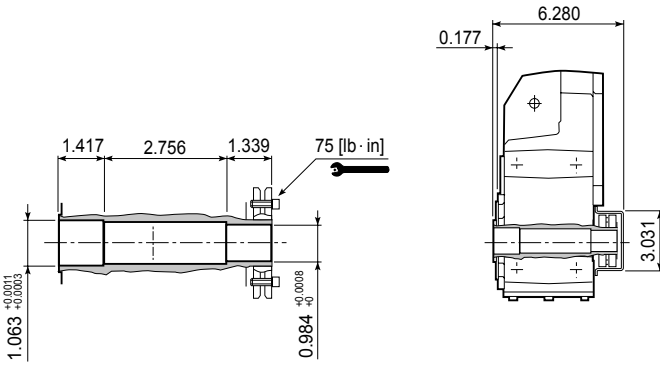
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 10

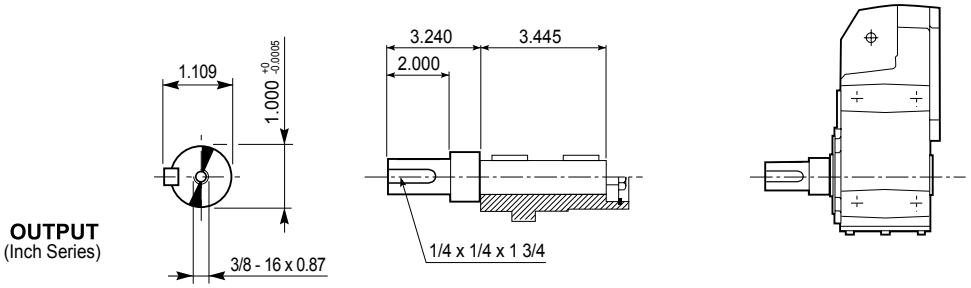
F 10...NH



F 10...S

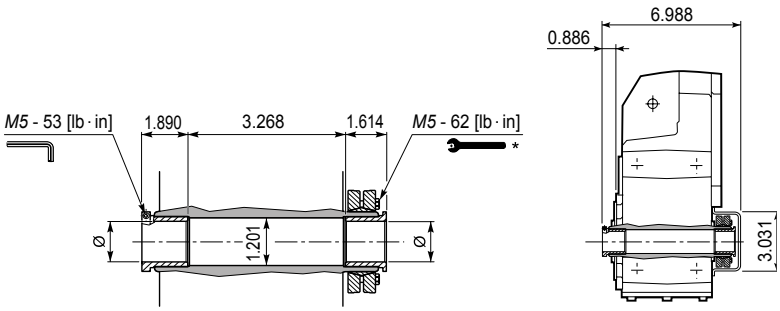


F 10...NR

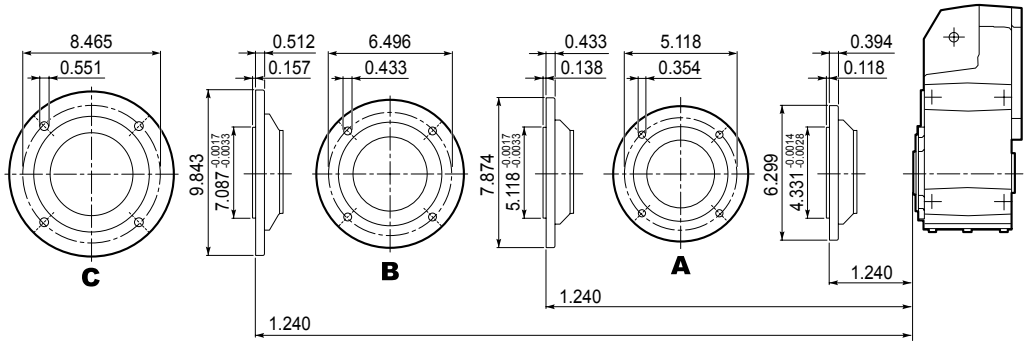


F 10...NQF

	Ø
NQF1	1.000
NQF1-3/16	1.188

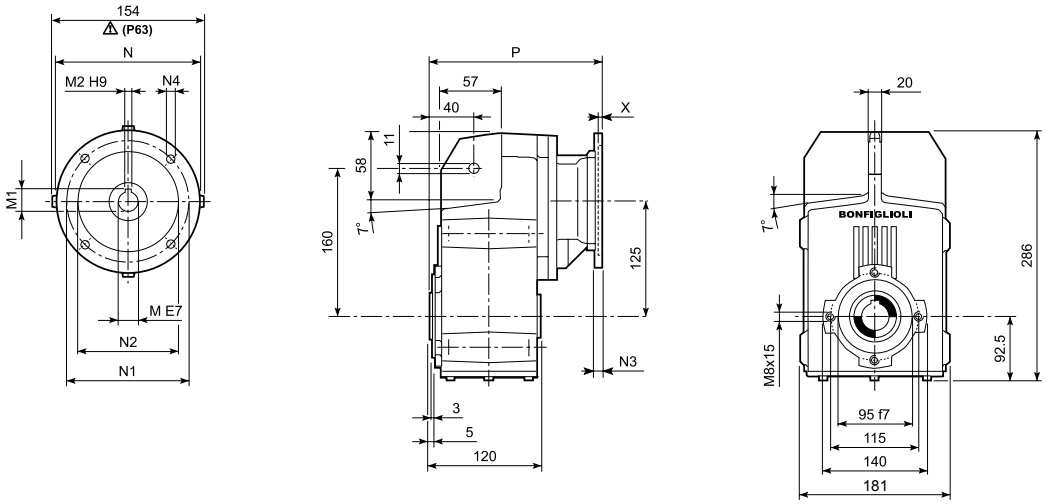


F 10...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 20...P(IEC)

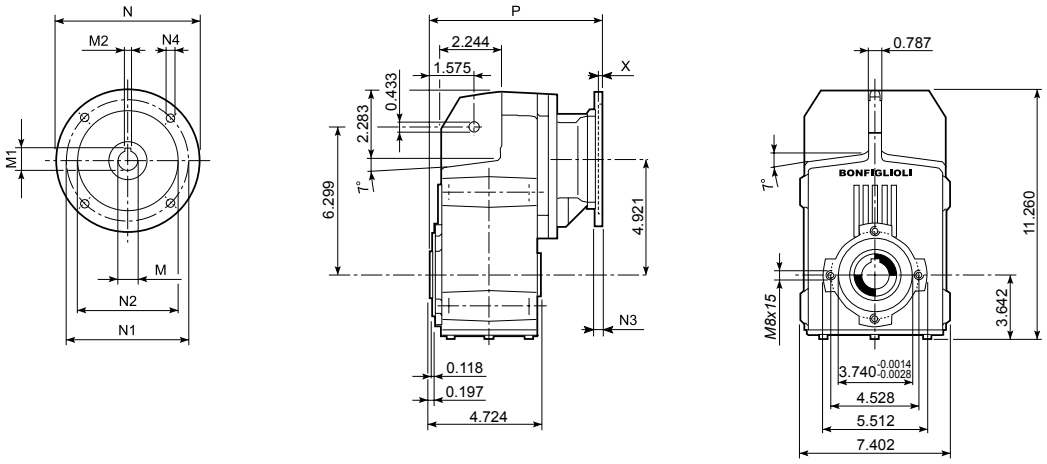


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 20 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	217	13
F 20 2	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	217	12
F 20 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	253	13
F 20 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	253	13
F 20 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	272.5	14
F 20 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	272.5	14
F 20 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18
F 20 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18

Metric output versions available also in combination with NEMA motor adaptor

F 20...N(NEMA Input)

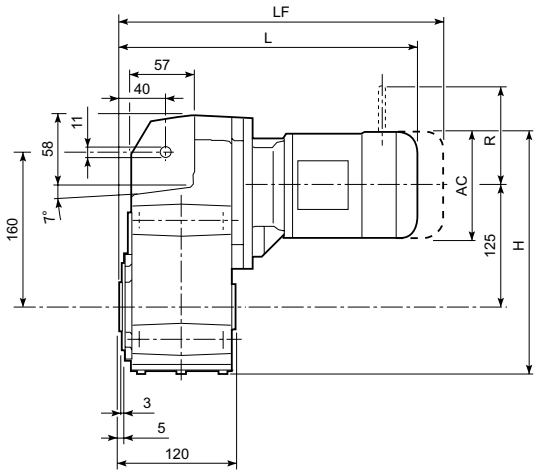


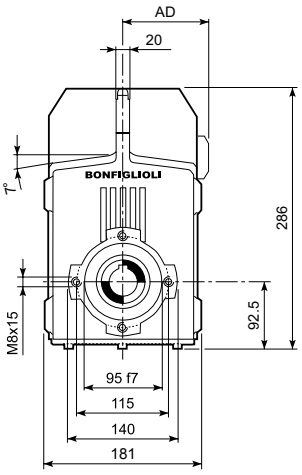
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 20 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.563	26
F 20 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.563	29
F 20 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	9.390	35
F 20 3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	10.748	29
F 20 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	10.748	31
F 20 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	11.575	40

Imperial output versions available also in combination with IEC motor adaptor

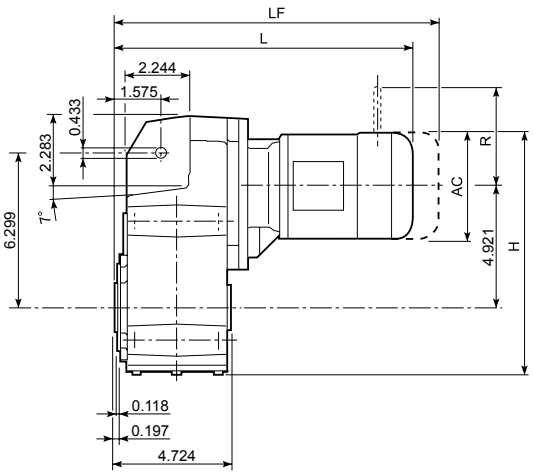
F 20...M/ME/MX

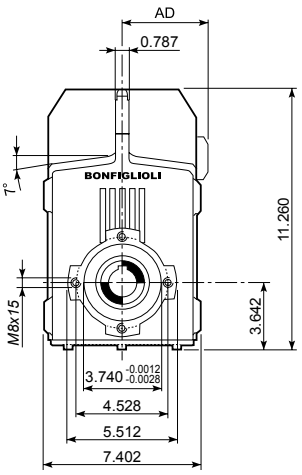




								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
												Dimensions are in mm	
F 20 2	**S05**	**M05**	121	278.2	323.5	95	15	389.5	17	96	122	116	95
F 20 2	**S05**	**ME05**	121	278.2	323.5	95	15	389.5	17	96	119	116	119
F 20 2	**S1**	**M1**	138	286.7	352.5	108	17	413.5	20	103	135	124	108
F 20 2	**S1**	**ME1**	138	286.7	352.5	108	17	413.5	20	103	135	124	135
F 20 2	**S2**	**ME2S**	156	295.7	381.5	119	21	437.5	22.8	129	143	135	143
F 20 2	**S2**	**MX2S**	156	295.7	425.5	119	26	483.5	30	129	143	135	143
F 20 2	**S3**	**ME3S**	195	315.2	424.5	142	26	491.5	32.1	160	155	160	155
F 20 2	**S3**	**MX3S**	195	315.2	456.5	142	29	520.5	37.1	160	155	160	155
F 20 2	**S3**	**ME3L**	195	315.2	456.5	142	33	518.5	38.6	160	155	160	155
F 20 2	**S3**	**MX3L**	195	315.2	500.5	142	39	562.5	46.1	160	155	160	155
F 20 3	**S05**	**M05**	121	278.2	379	95	17	445	18	96	122	116	95
F 20 3	**S05**	**ME05**	121	278.2	379	95	17	445	18	96	119	116	119
F 20 3	**S1**	**M1**	138	286.7	408	108	19	469	21	103	135	124	108
F 20 3	**S1**	**ME1**	138	286.7	408	108	19	469	21	103	135	124	108
F 20 3	**S2**	**ME2S**	156	295.7	437	119	22	493	24.8	129	143	135	143
F 20 3	**S2**	**MX2S**	156	295.7	481	119	27	539	32	129	143	135	143
F 20 3	**S3**	**ME3S**	195	315.2	480	142	27	547	34.1	160	155	160	155
F 20 3	**S3**	**MX3S**	195	315.2	512	142	30	576	39.1	160	155	160	155
F 20 3	**S3**	**ME3L**	195	315.2	512	142	34	574	40.6	160	155	160	155
F 20 3	**S3**	**MX3L**	195	315.2	556	142	40	618	48.1	160	155	160	155

F 20...M/ME/MX

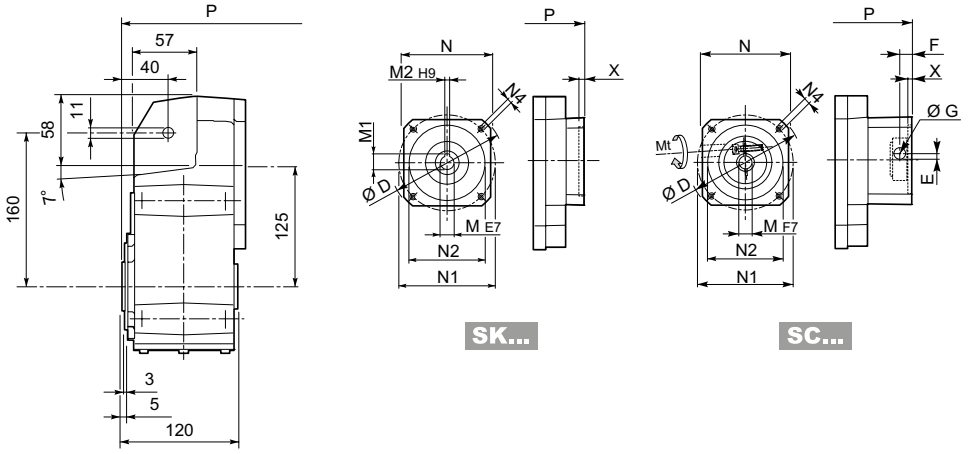




Dimensions are in Inch except when shown in *italic [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 20 2	**S05**	**M05**	4.764	10.953	12.736	3.740	33	15.335	37	3.780	4.803	4.567	3.740
F 20 2	**S1**	**M1**	5.433	11.287	13.878	4.252	37	16.280	44	4.055	5.315	4.882	4.252
F 20 2	**S2**	**ME2S**	6.142	11.642	15.020	4.685	46	—	—	—	—	—	—
F 20 2	**S2**	**MX2S**	6.142	11.642	16.752	4.685	57	—	—	—	—	—	—
F 20 2	**S3**	**ME3S**	7.677	12.409	16.713	5.591	57	—	—	—	—	—	—
F 20 2	**S3**	**MX3S**	7.677	12.409	17.972	5.591	64	—	—	—	—	—	—
F 20 2	**S3**	**ME3L**	7.677	12.409	17.972	5.591	73	—	—	—	—	—	—
F 20 2	**S3**	**MX3L**	7.677	12.409	19.705	5.591	86	—	—	—	—	—	—
F 20 3	**S05**	**M05**	4.764	10.953	14.921	3.740	37	17.520	40	3.780	4.803	4.567	3.740
F 20 3	**S1**	**M1**	5.433	11.287	16.063	4.252	42	18.465	46	4.055	5.315	4.882	4.252
F 20 3	**S2**	**ME2S**	6.142	11.642	17.205	4.685	49	—	—	—	—	—	—
F 20 3	**S2**	**MX2S**	6.142	11.642	18.937	4.685	60	—	—	—	—	—	—
F 20 3	**S3**	**ME3S**	7.677	12.409	18.898	5.591	60	—	—	—	—	—	—
F 20 3	**S3**	**MX3S**	7.677	12.409	20.157	5.591	66	—	—	—	—	—	—
F 20 3	**S3**	**ME3L**	7.677	12.409	20.157	5.591	75	—	—	—	—	—	—
F 20 3	**S3**	**MX3L**	7.677	12.409	21.890	5.591	88	—	—	—	—	—	—

F 20...SK / SC

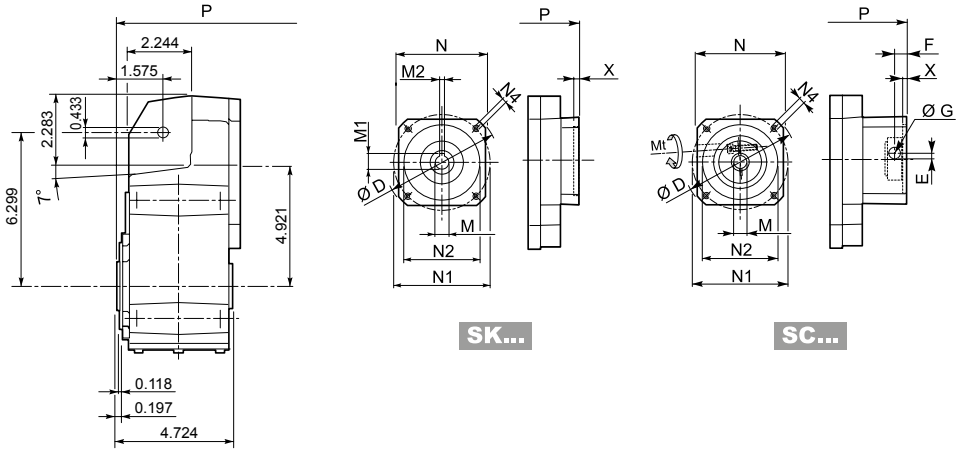


Dimensions are in mm

											2x		3x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 20 2/3	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	169	11	224.5	12
F 20 2/3	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	176	12	231.5	13
F 20 2/3	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	217	12	231.5	13
F 20 2/3	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	217	13	272.5	14
F 20 2/3	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	217	13	272.5	14
F 20 2/3	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	217	13	272.5	14

														2x		3x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 20 2/3	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	196	12	251.5	13
F 20 2/3	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	196	13	251.5	14
F 20 2/3	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	196	13	251.5	14
F 20 2/3	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	240.5	14	296	15
F 20 2/3	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	240.5	15	296	16
F 20 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	240.5	15	296	16

F 20...SK / SC

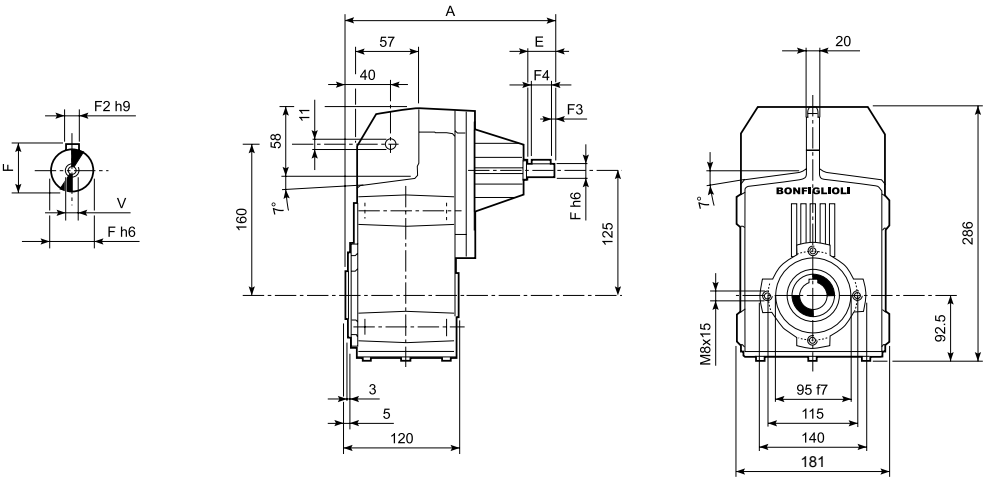


Dimensions are in Inch except when shown in *italic [mm]*

											2x		3x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 20 2/3	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	6.654	24	8.839	26
F 20 2/3	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	6.929	26	9.114	29
F 20 2/3	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	8.543	26	9.114	29
F 20 2/3	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.543	29	10.728	31
F 20 2/3	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.543	29	10.728	31

														2x		3x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 20 2/3	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.717	26	9.902	29
F 20 2/3	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.717	29	9.902	31
F 20 2/3	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	7.717	29	9.902	31
F 20 2/3	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	9.469	33	11.654	35
F 20 2/3	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	9.469	33	11.654	35

F 20...HS

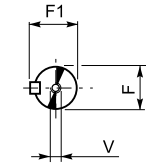


Dimensions are in mm

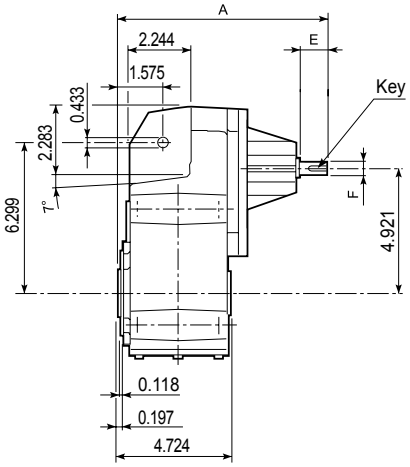
		A	E	F	F1	F2	F3	F4	V	Kg
F 20 2	**HS**	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
F 20 3		260	40	16	18	5	2.5	35	M6x16	12.4

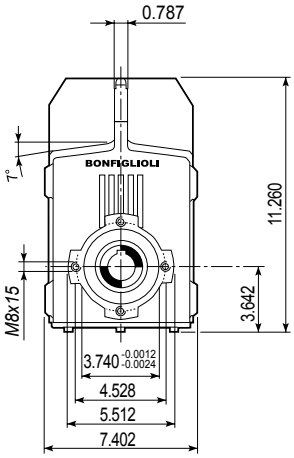
Metric output versions available also in combination with NHS input

F 20...NHS



INPUT
(Inch Series)





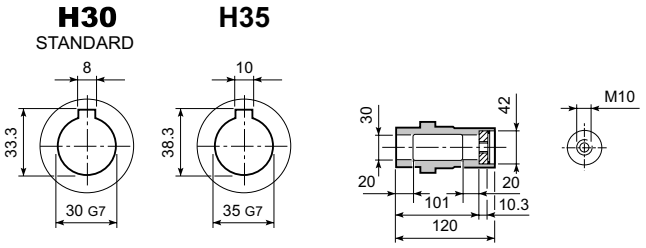
Dimensions are in Inch except when shown in *italic [mm]*

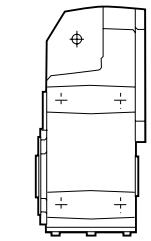
		A	E	F	F1	V	Key	lbs
F 20 2	**NHS**	9.744	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
F 20 3		10.236	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	27

Imperial output versions available also in combination with HS input

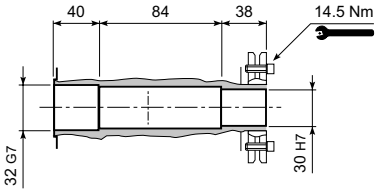
F 20

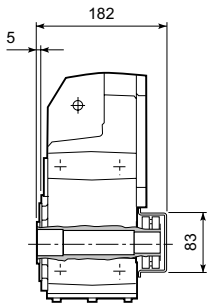
F 20...H



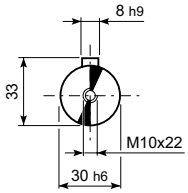


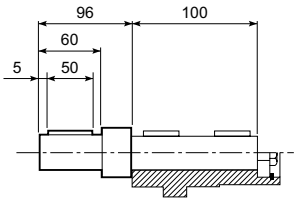
F 20...S

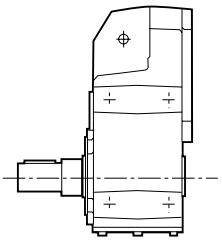




F 20...R

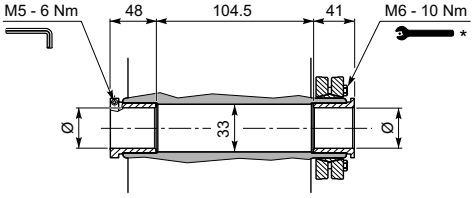


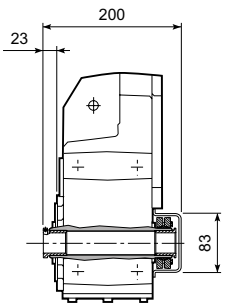




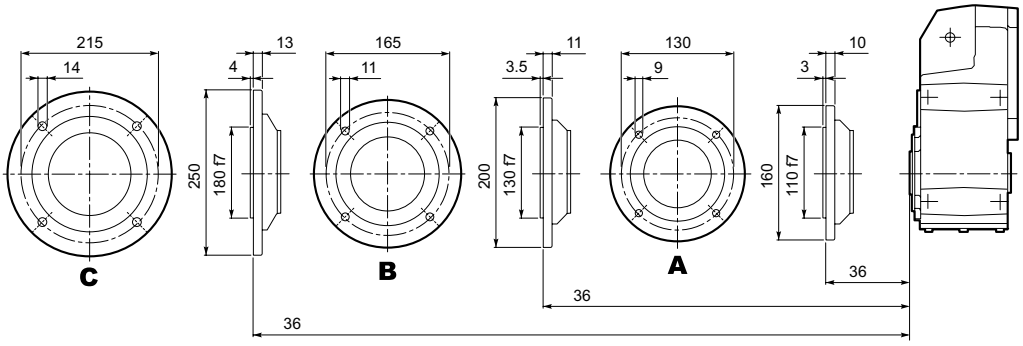
F 20...QF

	Ø
QF25	25
QF30	30





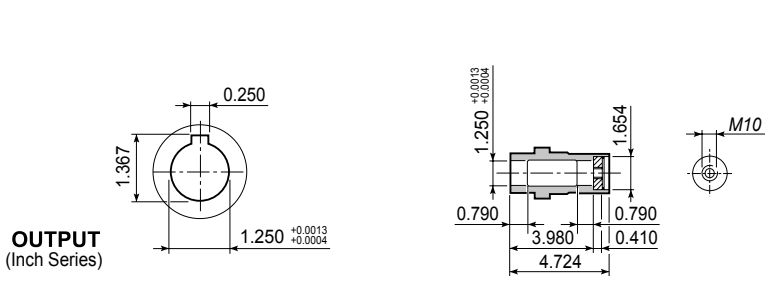
F 20...F...



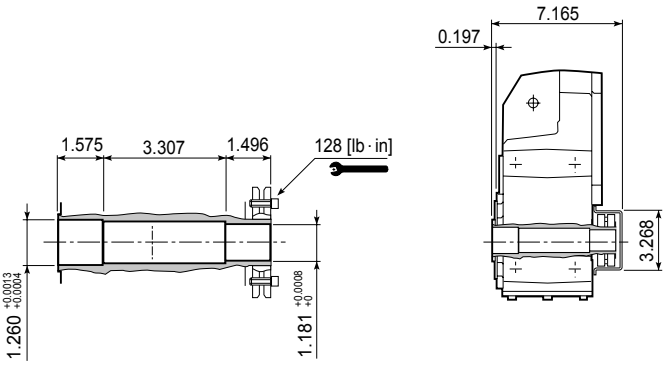
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 20

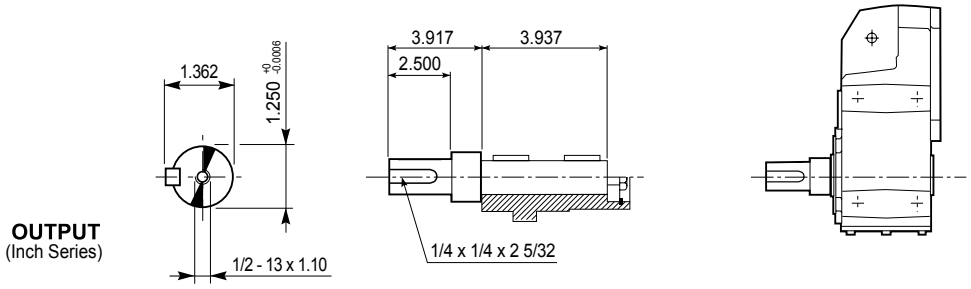
F 20...NH



F 20...S

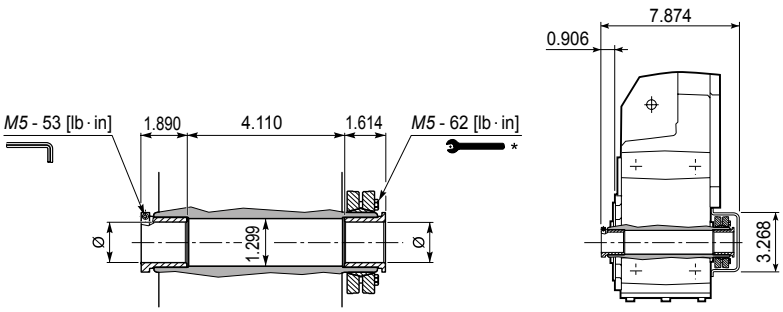


F 20...NR

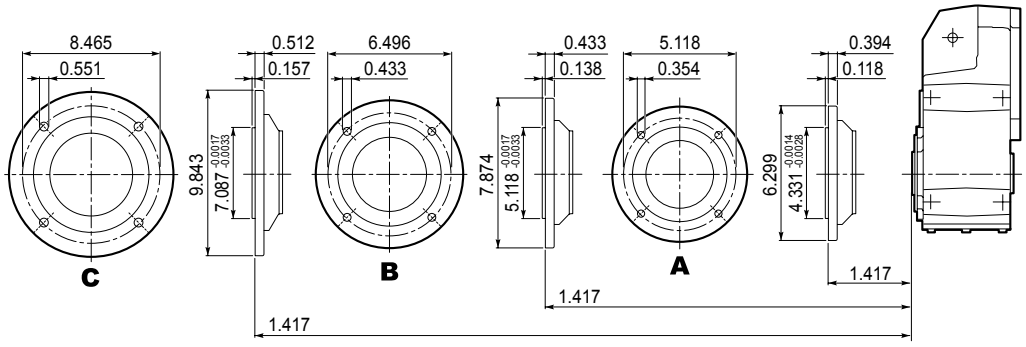


F 20...NQF

	Ø
NQF1	1.000
NQF1-3/16	1.188

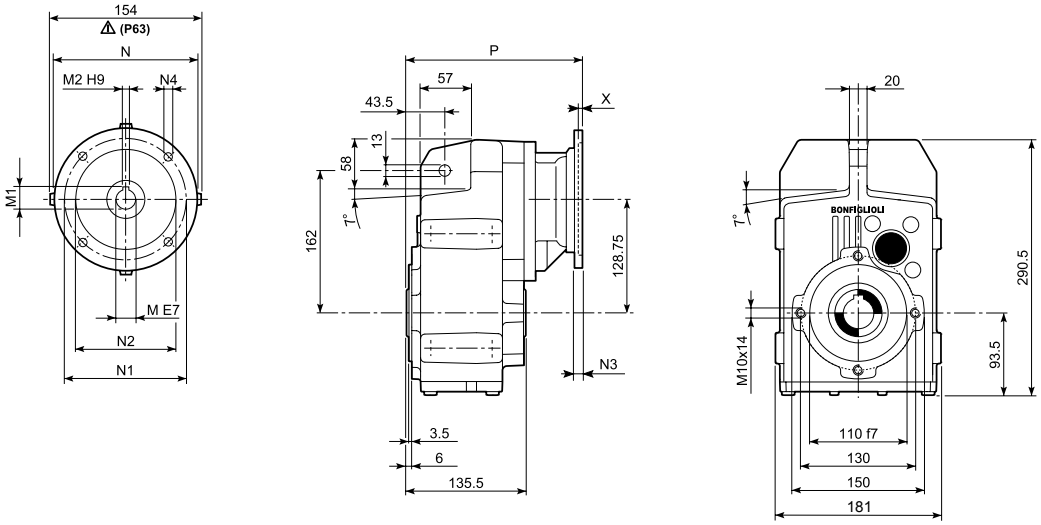


F 20...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 25...P(IEC)

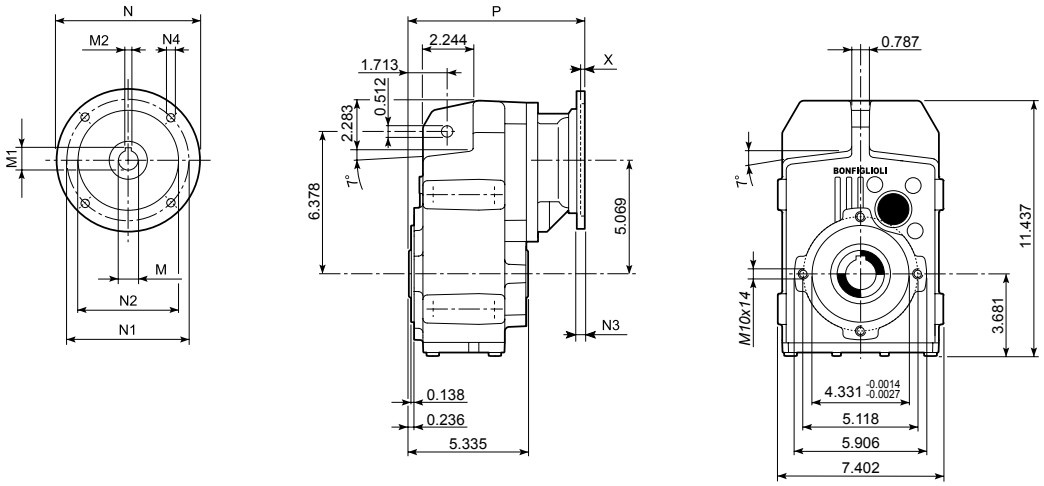


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 25 2/3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	213	12
F 25 2/3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	213	12
F 25 2/3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	232.5	13
F 25 2/3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	232.5	13
F 25 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	268.5	13
F 25 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	268.5	13
F 25 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	288	14
F 25 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	288	14
F 25 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	298	18
F 25 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	298	18

Metric output versions available also in combination with NEMA motor adaptor

F 25...N(NEMA Input)

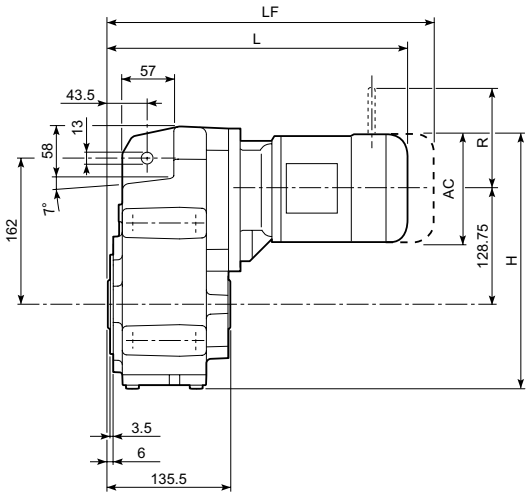


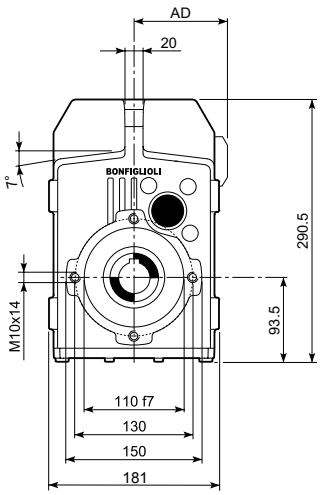
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 25 2/3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	9.173	26
F 25 2/3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	9.173	29
F 25 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	10.000	35
F 25 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.358	29
F 25 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.358	31
F 25 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	12.185	40

Imperial output versions available also in combination with IEC motor adaptor

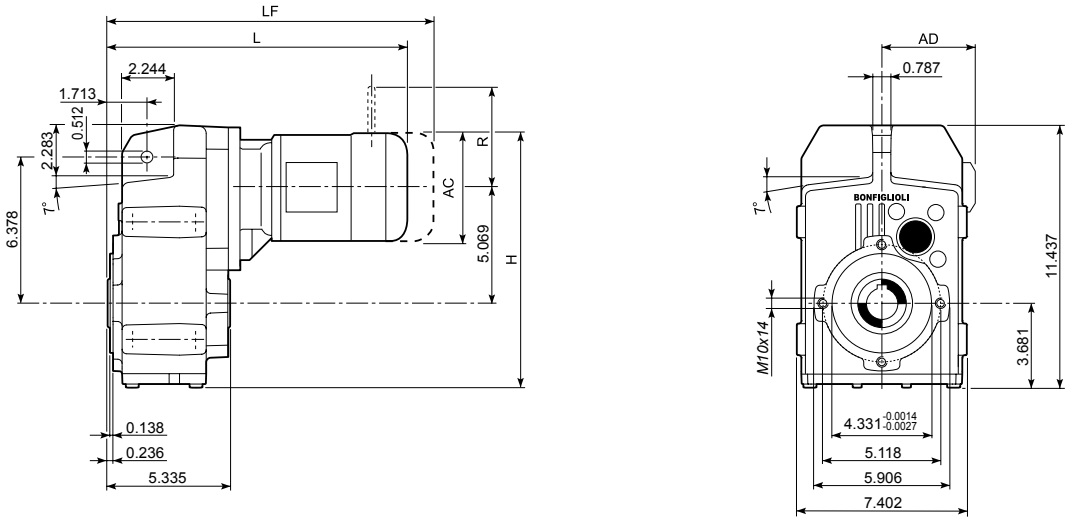
F 25...M/ME/MX





								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
												Dimensions are in mm	
F 25 2/3	**S05**	**M05**	121	283	339	95	15	405	17	96	122	116	95
F 25 2/3	**S05**	**ME05**	121	283	339	95	15	405	17	96	119	116	119
F 25 2/3	**S1**	**M1**	138	291.5	368	108	17	429	20	103	135	124	108
F 25 2/3	**S1**	**ME1**	138	291.5	368	108	17	429	20	103	135	124	135
F 25 2/3	**S2**	**ME2S**	156	300.5	397	119	21	453	22.8	129	143	134	143
F 25 2/3	**S2**	**MX2S**	156	300.5	441	119	26	499	30	129	143	134	143
F 25 2/3	**S3**	**ME3S**	195	320	440	142	26	507	32.1	160	155	160	155
F 25 2/3	**S3**	**MX3S**	195	320	472	142	29	536	37.1	160	155	160	155
F 25 2/3	**S3**	**ME3L**	195	320	472	142	33	534	38.6	160	155	160	155
F 25 2/3	**S3**	**MX3L**	195	320	516	142	39	578	46.1	160	155	160	155
F 25 4	**S05**	**M05**	121	283	394.5	95	17	460.5	18	96	122	116	95
F 25 4	**S05**	**ME05**	121	283	394.5	95	17	460.5	18	96	119	116	119
F 25 4	**S1**	**M1**	138	291.5	423.5	108	19	484.5	21	103	135	124	108
F 25 4	**S1**	**ME1**	138	291.5	423.5	108	19	484.5	21	103	135	124	135
F 25 4	**S2**	**ME2S**	156	300.5	452.5	119	22	508.5	24.8	129	143	134	143
F 25 4	**S2**	**MX2S**	156	300.5	496.5	119	27	554.5	32	129	143	134	143
F 25 4	**S3**	**ME3S**	195	320	495.5	142	27	562.5	34.1	160	155	160	155
F 25 4	**S3**	**MX3S**	195	320	527.5	142	30	591.5	39.1	160	155	160	155
F 25 4	**S3**	**ME3L**	195	320	527.5	142	34	589.5	40.6	160	155	160	155
F 25 4	**S3**	**MX3L**	195	320	571.5	142	40	633.5	48.1	160	155	160	155

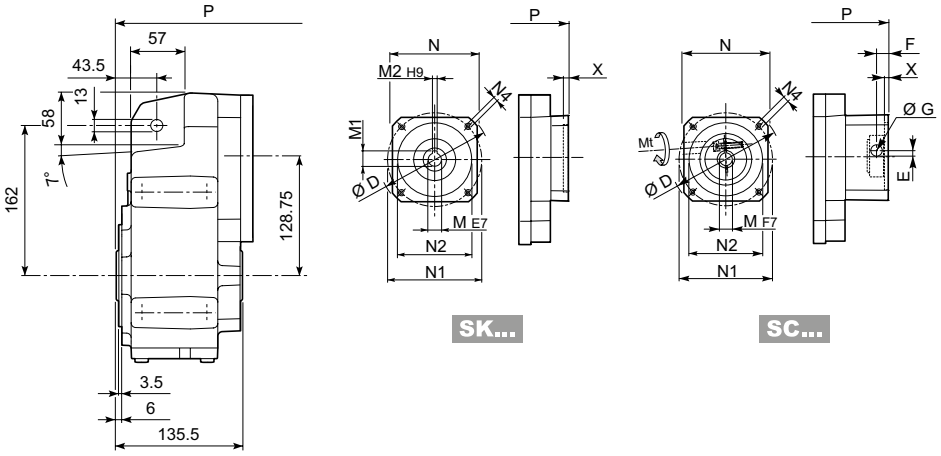
F 25...M/ME/MX



Dimensions are in Inch except when shown in *italic [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 25 2/3	**S05**	**M05**	4.764	11.142	13.346	3.740	33	15.945	37	3.780	4.803	4.567	3.740
F 25 2/3	**S1**	**M1**	5.433	11.476	14.488	4.252	37	16.890	44	4.055	5.315	4.882	4.252
F 25 2/3	**S2**	**ME2S**	6.142	11.831	15.630	4.685	46	—	—	—	—	—	—
F 25 2/3	**S2**	**MX2S**	6.142	11.831	17.362	4.685	57	—	—	—	—	—	—
F 25 2/3	**S3**	**ME3S**	7.677	12.598	17.323	5.591	57	—	—	—	—	—	—
F 25 2/3	**S3**	**MX3S**	7.677	12.598	18.583	5.591	64	—	—	—	—	—	—
F 25 2/3	**S3**	**ME3L**	7.677	12.598	18.583	5.591	73	—	—	—	—	—	—
F 25 2/3	**S3**	**MX3L**	7.677	12.598	20.315	5.591	86	—	—	—	—	—	—
F 25 4	**S05**	**M05**	4.764	11.142	15.531	3.740	37	18.130	40	3.780	4.803	4.567	3.740
F 25 4	**S1**	**M1**	5.433	11.476	16.673	4.252	42	19.075	46	4.055	5.315	4.882	4.252
F 25 4	**S2**	**ME2S**	6.142	11.831	17.815	4.685	49	—	—	—	—	—	—
F 25 4	**S2**	**MX2S**	6.142	11.831	19.547	4.685	60	—	—	—	—	—	—
F 25 4	**S3**	**ME3S**	7.677	12.598	19.508	5.591	60	—	—	—	—	—	—
F 25 4	**S3**	**MX3S**	7.677	12.598	20.768	5.591	66	—	—	—	—	—	—
F 25 4	**S3**	**ME3L**	7.677	12.598	20.768	5.591	75	—	—	—	—	—	—
F 25 4	**S3**	**MX3L**	7.677	12.598	22.500	5.591	88	—	—	—	—	—	—

F 25...SK / SC

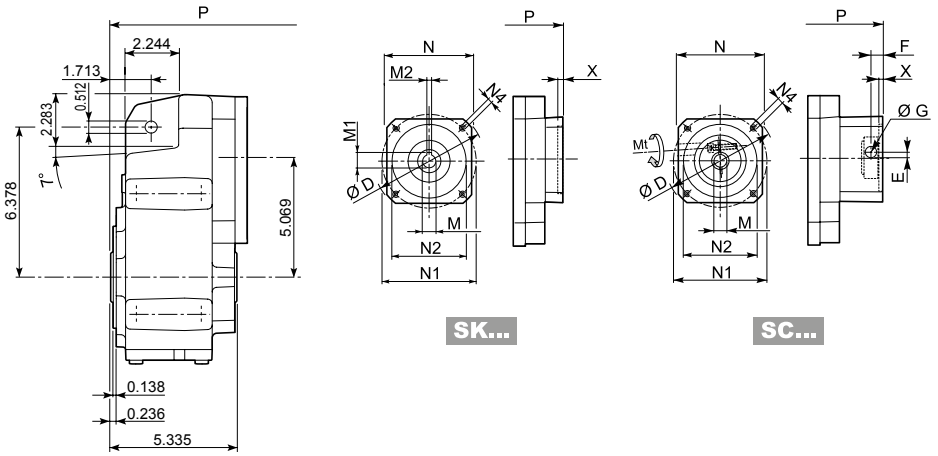


Dimensions are in mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 25 2/3/4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	184.5	11	240	12
F 25 2/3/4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	191.5	12	247	13
F 25 2/3/4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	191.5	12	247	13
F 25 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	232.5	13	288	14
F 25 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	232.5	13	288	14
F 25 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	232.5	13	288	14

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 25 2/3/4	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	211.5	12	267	13
F 25 2/3/4	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	211.5	13	267	14
F 25 2/3/4	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	211.5	13	267	14
F 25 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	256	14	311.5	15
F 25 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	256	15	311.5	16
F 25 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	256	15	311.5	16

F 25...SK / SC

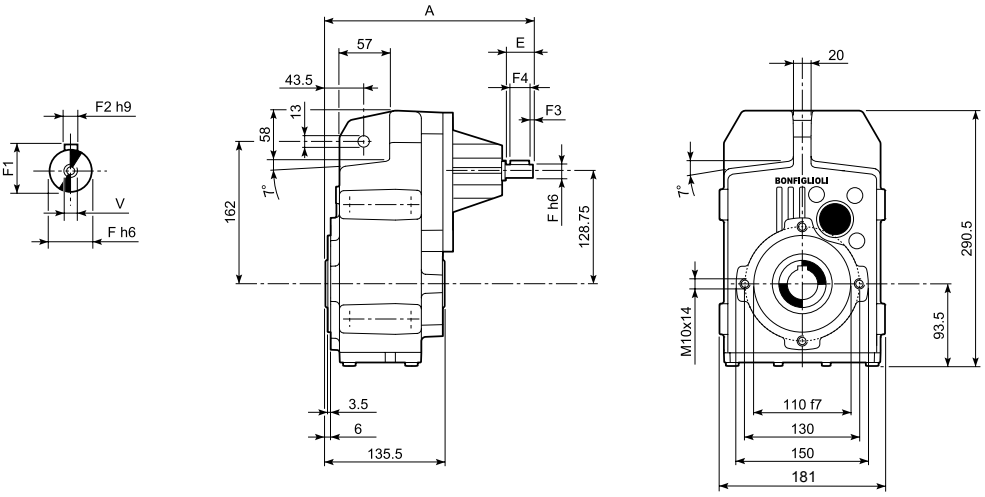


Dimensions are in Inch except when shown in *italic [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 25 2/3/4	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	7.264	24	9.449	26
F 25 2/3/4	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	7.539	26	9.724	29
F 25 2/3/4	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	7.539	26	9.724	29
F 25 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.154	29	11.339	31
F 25 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.154	29	11.339	31

														2/3x		4x	
			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 25 2/3/4	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.327	26	10.512	29
F 25 2/3/4	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.327	29	10.512	31
F 25 2/3/4	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	8.327	29	10.512	31
F 25 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.079	33	12.264	35
F 25 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.079	33	12.264	35

F 25...HS

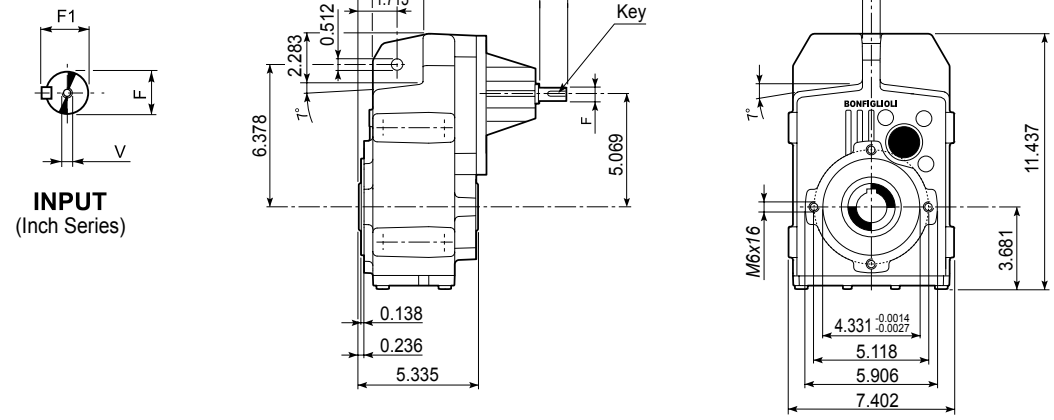


Dimensions are in mm

		A	E	F	F1	F2	F3	F4	V	Kg
F 25 2	**HS**	263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 3		263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 4		275.5	40	16	18	5	2.5	35	M6x16	12.5

Metric output versions available also in combination with NHS input

F 25...NHS



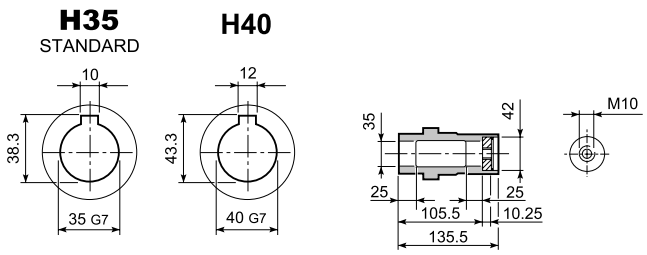
Dimensions are in Inch except when shown in *italic [mm]*

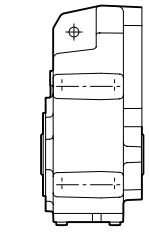
		A	E	F	F1	V	Key	lbs
F 25 2	**NHS**	10.354	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
F 25 3		10.354	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
F 25 4		10.846	1.575	0.625 $^{+0}_{-0.0004}$	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	28

Imperial output versions available also in combination with HS input

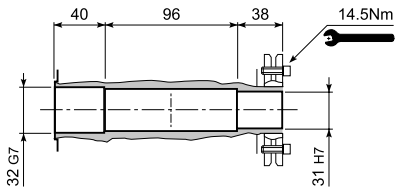
F 25

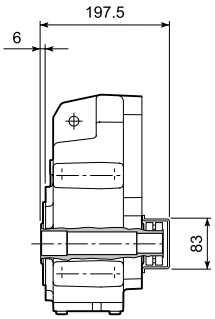
F 25...H



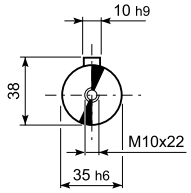


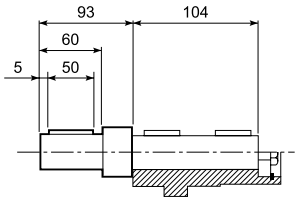
F 25...S

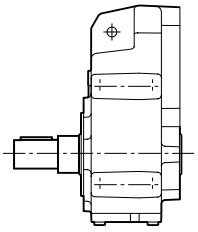




F 25...R



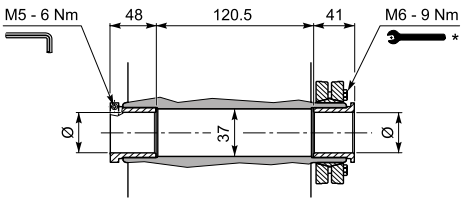


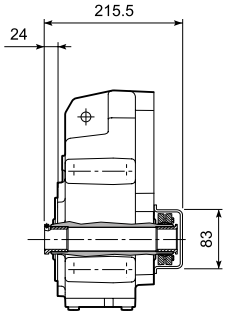


F 25...QF

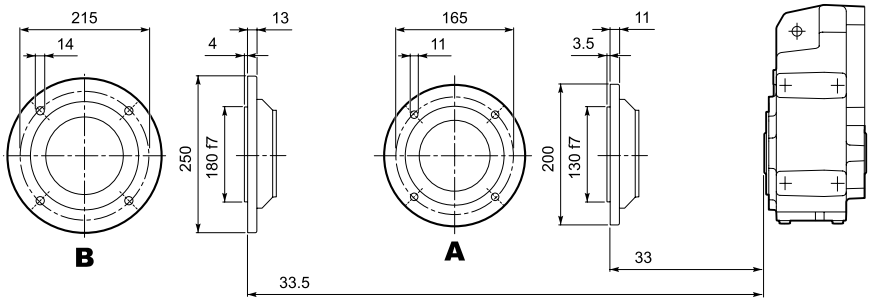
	Ø
QF30	30
QF32	32

$M_{n2\ max}$ [Nm]	
F 25 QF30	350

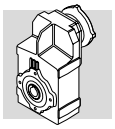




F 25...F...

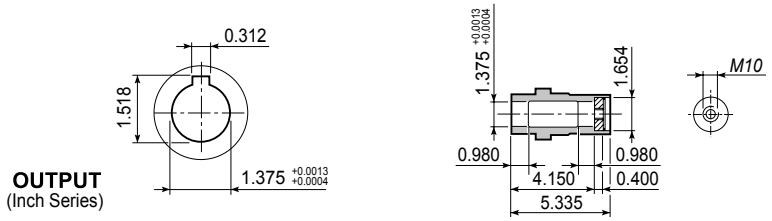


* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

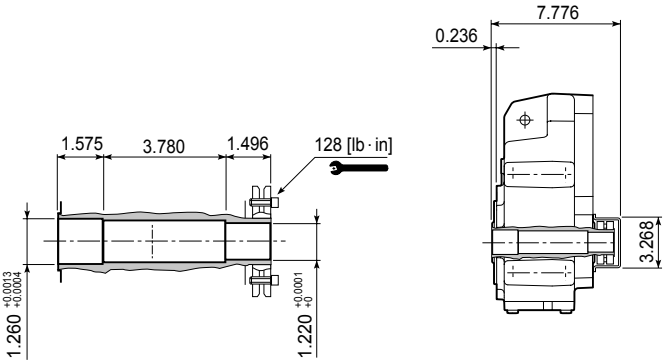


F 25

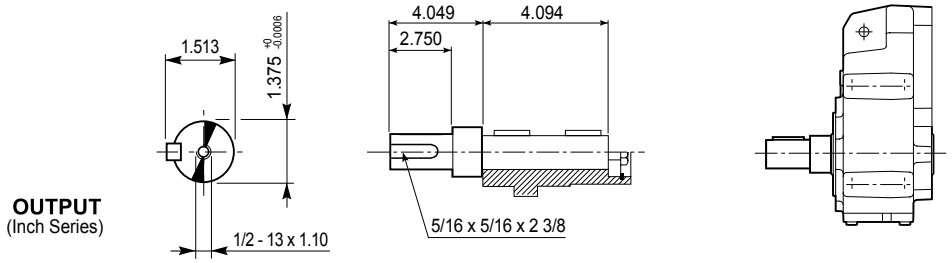
F 25...NH



F 25...S



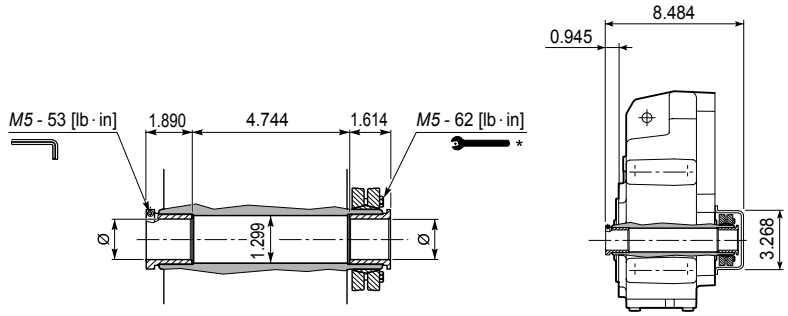
F 25...NR



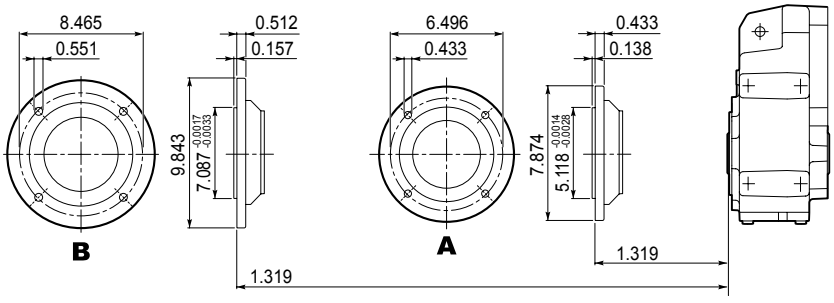
F 25...NQF

	Ø
NQF1-3/16	1.188
NQF1-1/4	1.250

$T_{n2\ max}$ [lb · in]	
F 25 NQF1-3/16	3100

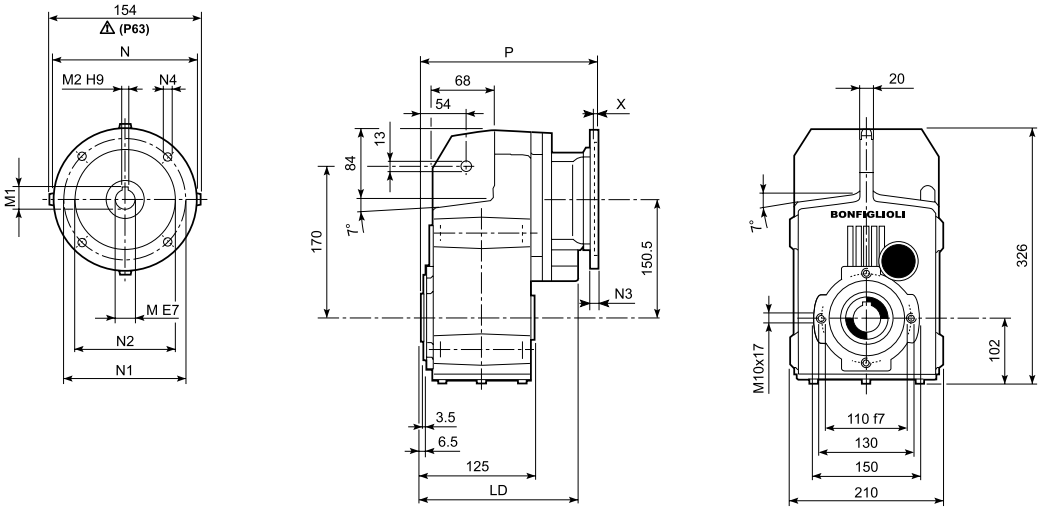


F 25...F...



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 31...P(IEC)

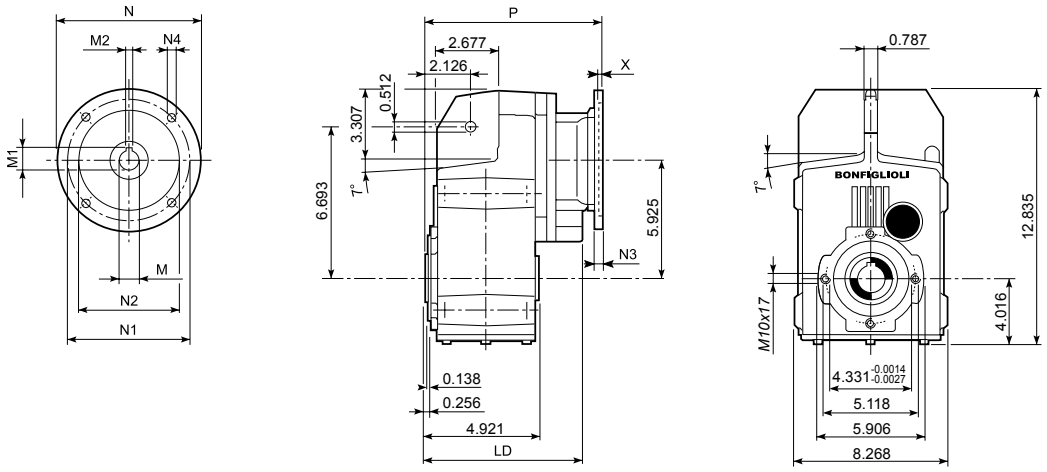


Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 31 2/3	**P63**	195.5	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 31 2/3	**P71**	195.5	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 31 2/3	**P80**	205.5	19	21.8	6	200	165	130	—	M10x14.5	4	245	18
F 31 2/3	**P90**	205.5	24	27.3	8	200	165	130	—	M10x14.5	4	245	17
F 31 2/3	**P100**	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	**P112**	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	**P132**	—	38	41.3	10	300	265	230	—	14	5	291.5	24
F 31 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	283	17
F 31 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
F 31 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	302.5	18
F 31 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	302.5	18
F 31 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
F 31 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

Metric output versions available also in combination with NEMA motor adaptor

F 31...N(NEMA Input)

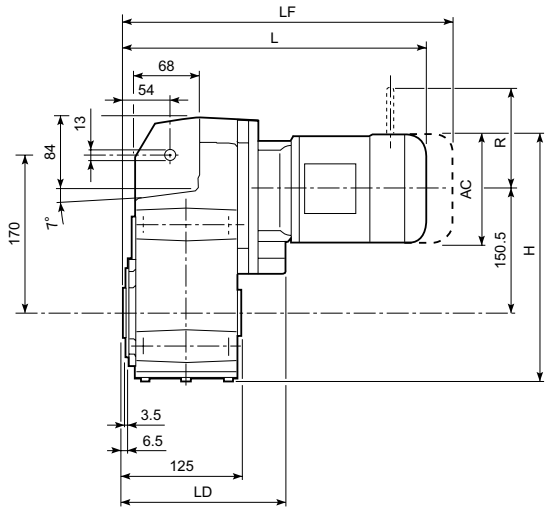


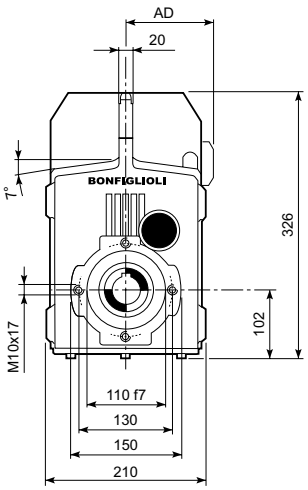
Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 31 2/3	**N56C**	7.697	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	9.665	37
F 31 2/3	**N140TC**	7.697	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	9.665	40
F 31 2/3	**N180TC**	8.091	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	10.492	46
F 31 2/3	**N210TC**	—	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.531	0.531	0.217	11.654	53
F 31 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	11.929	37
F 31 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	11.929	40
F 31 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	12.756	49

Imperial output versions available also in combination with IEC motor adaptor

F 31...M/ME/MX

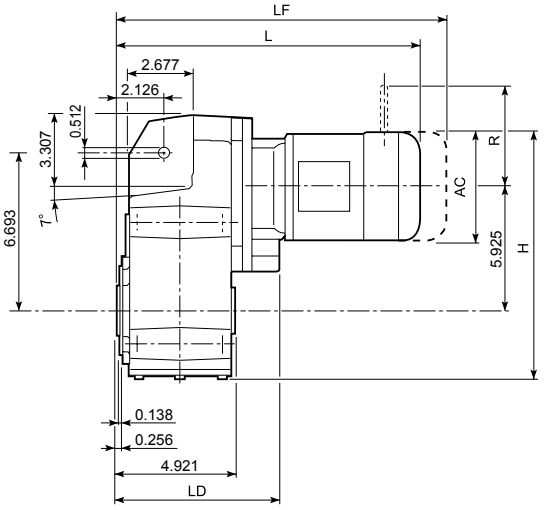


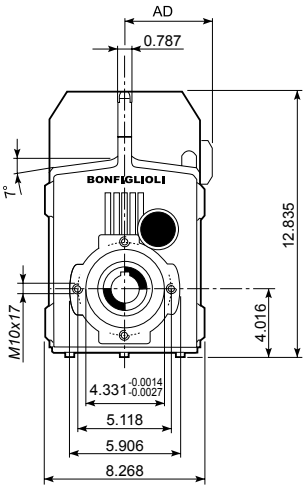


Dimensions are in mm

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 31 2/3	**S1**	**M1**		138	321.3	380.5	183.5	108	22	441.5	25	103	135	124	108
F 31 2/3	**S1**	**ME1**		138	321.3	380.5	183.5	108	22	441.5	25	96	119	116	119
F 31 2/3	**S2**	**ME2S**		156	330.3	409.5	195.5	119	26	465.5	27.8	129	143	134	143
F 31 2/3	**S2**	**MX2S**		156	330.3	453.5	195.5	119	31	511.5	35	129	143	134	143
F 31 2/3	**S3**	**ME3S**		195	349.8	452.5	205.5	142	31	519.5	37.1	160	155	160	155
F 31 2/3	**S3**	**MX3S**		195	349.8	484.5	205.5	142	34	548.5	42.1	160	155	160	155
F 31 2/3	**S3**	**ME3L**		195	349.8	484.5	205.5	142	40	546.5	43.6	160	155	160	155
F 31 2/3	**S3**	**MX3L**		195	349.8	528.5	205.5	142	46	590.5	51.1	160	155	160	155
F 31 2/3	**S4**	**ME4**	**MX4**	258	381.3	592.5	—	193	72	663.5	81.1	204	210	200	210
F 31 2/3	**S4**	**ME4LA**	**MX4LA**	258	381.3	592.5	—	193	78	688.5	95.1	226	210	217	210
F 31 4	**S05**	**M05**		121	312.8	409	—	95	20	475	22	96	122	116	95
F 31 4	**S05**	**ME05**		121	312.8	409	—	95	20	475	22	96	119	116	119
F 31 4	**S1**	**M1**		138	321.3	438	—	108	22	499	25	103	135	124	108
F 31 4	**S1**	**ME1**		138	321.3	438	—	108	22	499	25	103	135	124	135
F 31 4	**S2**	**ME2S**		156	330.3	467	—	119	26	523	27.8	129	143	134	143
F 31 4	**S2**	**MX2S**		156	330.3	511	—	119	31	569	35	129	143	134	143
F 31 4	**S3**	**ME3S**		195	349.8	510	—	142	31	577	37.1	160	155	160	155
F 31 4	**S3**	**MX3S**		195	349.8	542	—	142	34	606	42.1	160	155	160	155
F 31 4	**S3**	**ME3L**		195	349.8	542	—	142	41	604	43.6	160	155	160	155
F 31 4	**S3**	**MX3L**		195	349.8	586	—	142	47	648	51.1	160	155	160	155

F 31...M/ME/MX

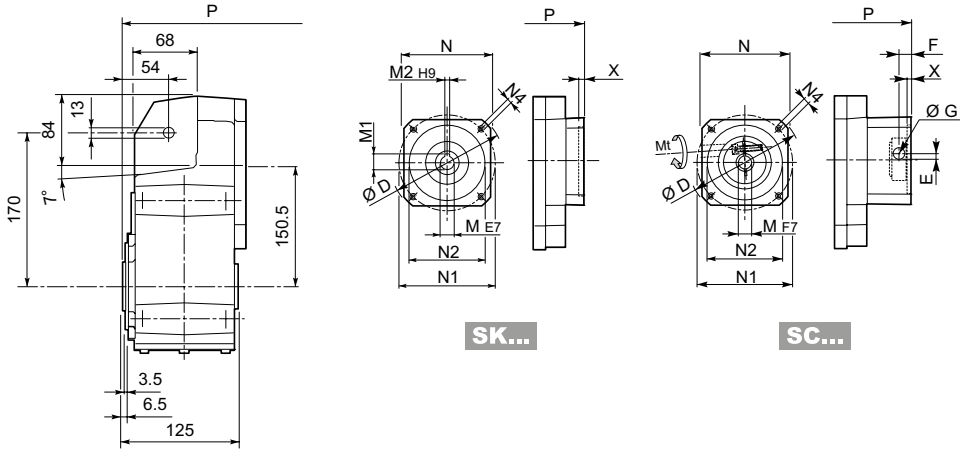




Dimensions are in Inch except when shown in *italic [mm]*

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
F 31 2/3	**S1**	**M1**		5.433	12.650	14.980	7.224	4.252	49	17.382	55	4.055	5.315	4.882	4.252
F 31 2/3	**S2**	**ME2S**		6.142	13.004	16.122	7.697	4.685	57	—	—	—	—	—	—
F 31 2/3	**S2**	**MX2S**		6.142	13.004	17.854	7.697	4.685	68	—	—	—	—	—	—
F 31 2/3	**S3**	**ME3S**		7.677	13.772	17.815	8.091	5.591	68	—	—	—	—	—	—
F 31 2/3	**S3**	**MX3S**		7.677	13.772	19.075	8.091	5.591	75	—	—	—	—	—	—
F 31 2/3	**S3**	**ME3L**		7.677	13.772	19.075	8.091	5.591	88	—	—	—	—	—	—
F 31 2/3	**S3**	**MX3L**		7.677	13.772	20.807	8.091	5.591	101	—	—	—	—	—	—
F 31 2/3	**S4**	**ME4**	**MX4**	10.157	15.012	23.327	—	7.598	159	—	—	—	—	—	—
F 31 2/3	**S4**	**ME4LA**	**MX4LA**	10.157	15.012	23.327	—	7.598	172	—	—	—	—	—	—
F 31 4	**S05**	**M05**		4.764	12.315	16.102	—	3.740	44	18.701	49	3.780	4.803	4.567	3.740
F 31 4	**S1**	**M1**		5.433	12.650	17.244	—	4.252	49	19.646	55	4.055	5.315	4.882	4.252
F 31 4	**S2**	**ME2S**		6.142	13.004	18.386	—	4.685	57	—	—	—	—	—	—
F 31 4	**S2**	**MX2S**		6.142	13.004	20.118	—	4.685	68	—	—	—	—	—	—
F 31 4	**S3**	**ME3S**		7.677	13.772	20.079	—	5.591	68	—	—	—	—	—	—
F 31 4	**S3**	**MX3S**		7.677	13.772	21.339	—	5.591	75	—	—	—	—	—	—
F 31 4	**S3**	**ME3L**		7.677	13.772	21.339	—	5.591	90	—	—	—	—	—	—
F 31 4	**S3**	**MX3L**		7.677	13.772	23.071	—	5.591	104	—	—	—	—	—	—

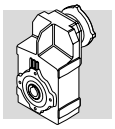
F 31...SK / SC



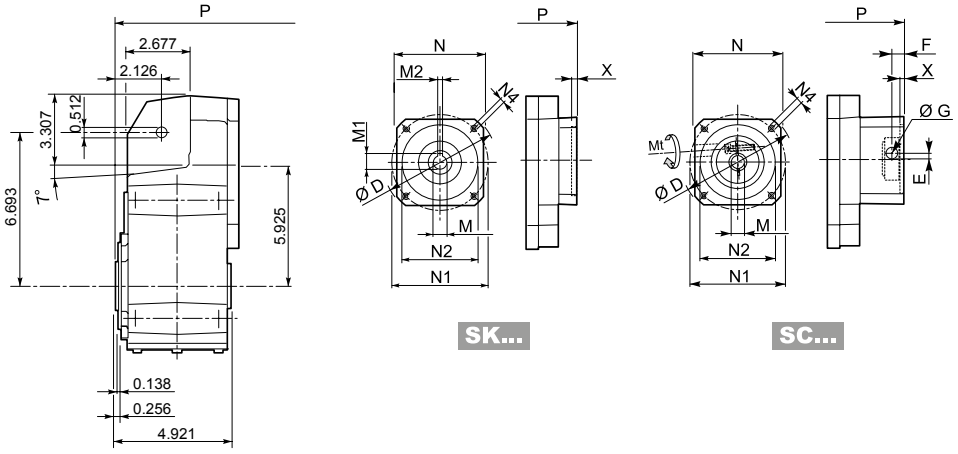
Dimensions are in mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 31 2/3/4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	197	16	254.5	16
F 31 2/3/4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	204	17	261.5	17
F 31 2/3/4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	204	17	261.5	17
F 31 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	245	18	302.5	18
F 31 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	245	18	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 31 2/3/4	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	224	17	281.5	17
F 31 2/3/4	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	224	18	281.5	18
F 31 2/3/4	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	224	18	281.5	18
F 31 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	268.5	19	326	19
F 31 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	268.5	21	—	—



F 31...SK / SC

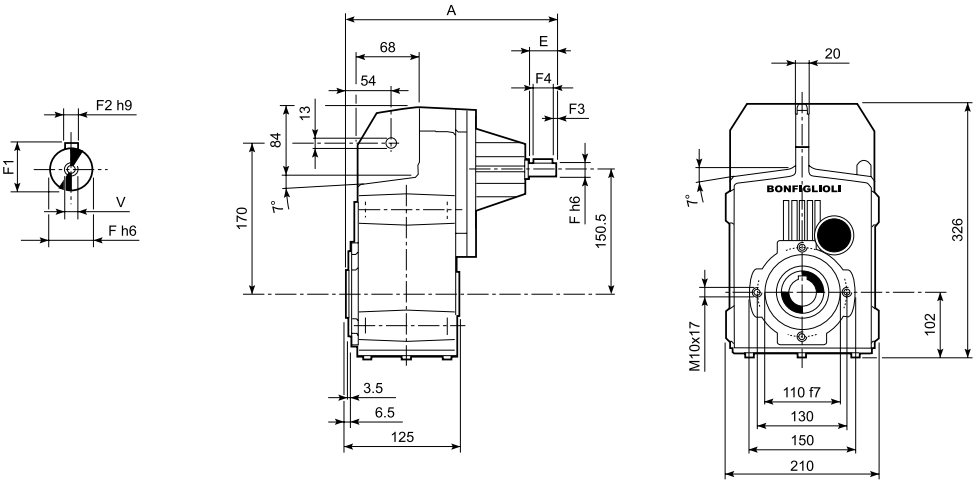


Dimensions are in Inch except when shown in *italic [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 31 2/3/4	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	7.756	35	10.020	35
F 31 2/3/4	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	8.031	37	10.295	37
F 31 2/3/4	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	8.031	37	10.295	37
F 31 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.646	40	11.909	40
F 31 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.646	40	11.909	40
F 31 2/3	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	9.646	40	—	—

															2/3x		4x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 31 2/3/4	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.819	37	11.083	37
F 31 2/3/4	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.819	40	11.083	40
F 31 2/3/4	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	8.819	40	11.083	40
F 31 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.571	44	12.835	44
F 31 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.571	44	12.835	44
F 31 2/3	**SC 130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	10.571	46	—	—

F 31...HS

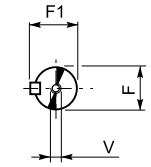


Dimensions are in mm

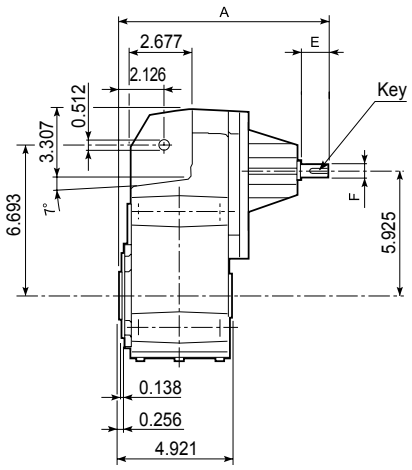
		A	E	F	F1	F2	F3	F4	V	kg
F 31 2	**HS**	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 3		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 4		290	40	16	18	5	2.5	35	M6x16	16.5

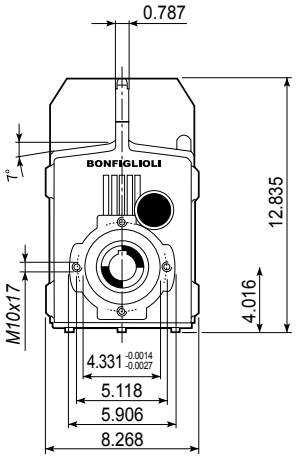
Imperial output versions available also in combination with HS input

F 31...NHS



INPUT
(Inch Series)





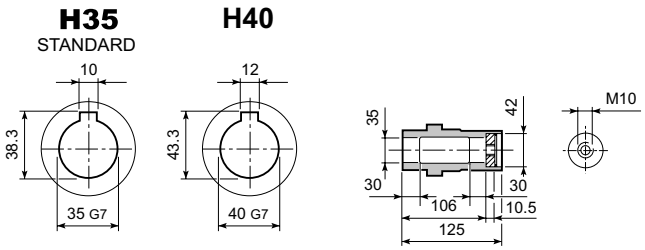
Dimensions are in Inch except when shown in *italic [mm]*

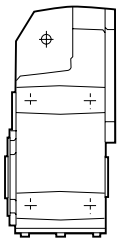
		A	E	F	F1	V	Key	lbs
F 31 2	**NHS**	10.846	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
F 31 3		10.846	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
F 31 4		11.417	1.575	0.625 $^{+0}_{-0.0004}$	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	36

Imperial output versions available also in combination with HS input

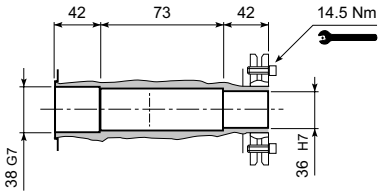
F 31

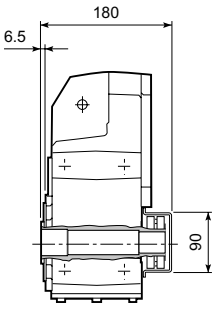
F 31...H



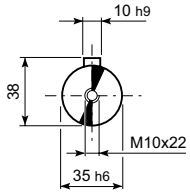


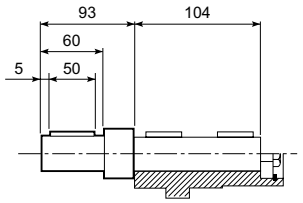
F 31...S

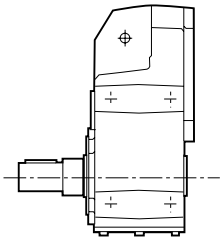




F 31...R

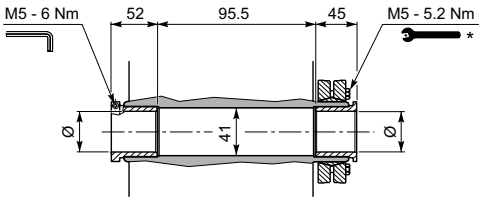


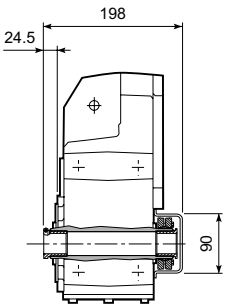




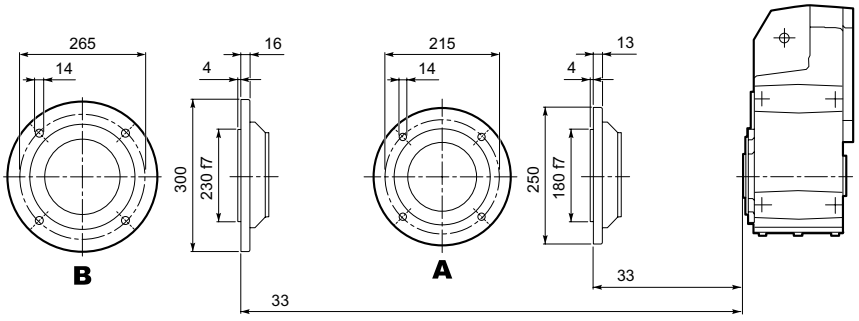
F 31...QF

	Ø
QF35	35
QF40	40





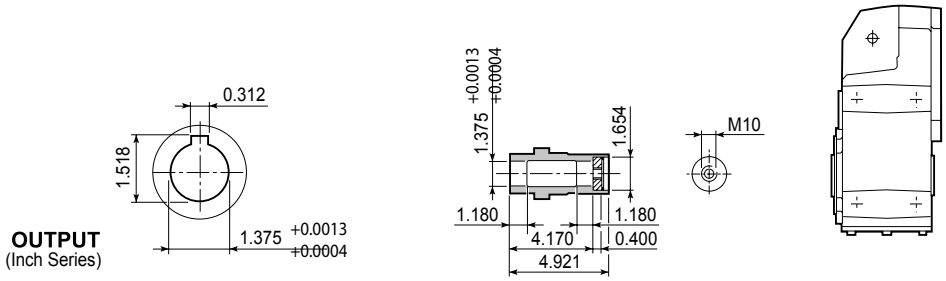
F 31...F...



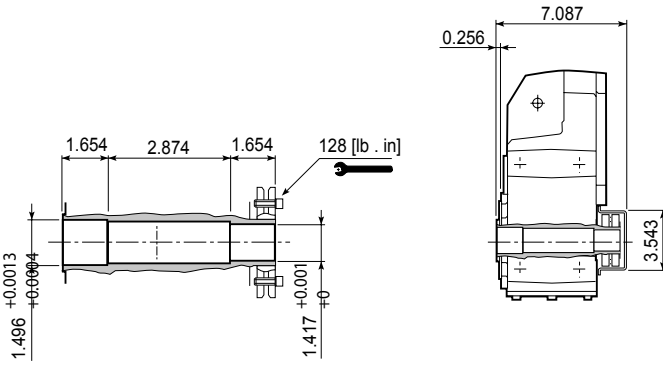
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 31

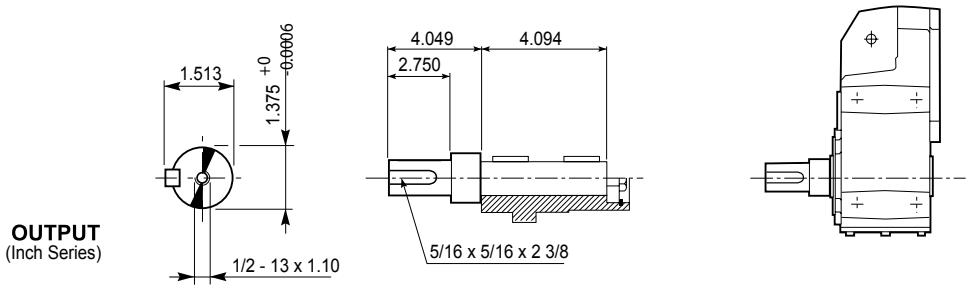
F 31...NH



F 31...S



F 31...NR

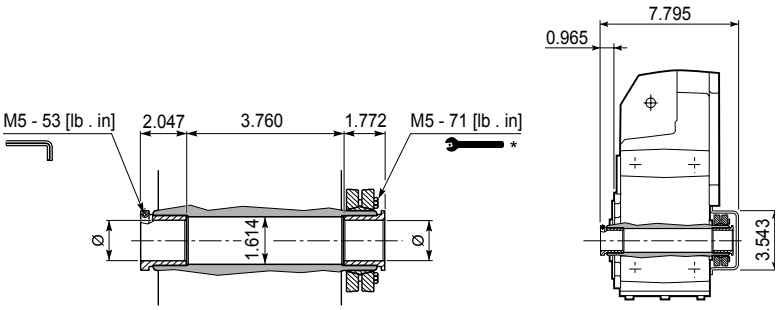


* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

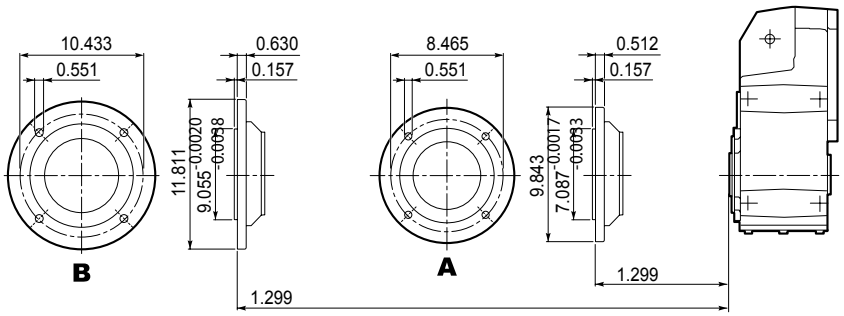
F 31

F 31...NQF

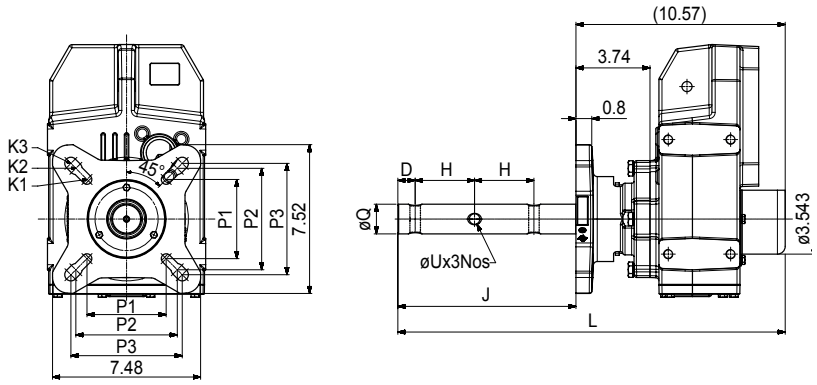
	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438



F 31...F...



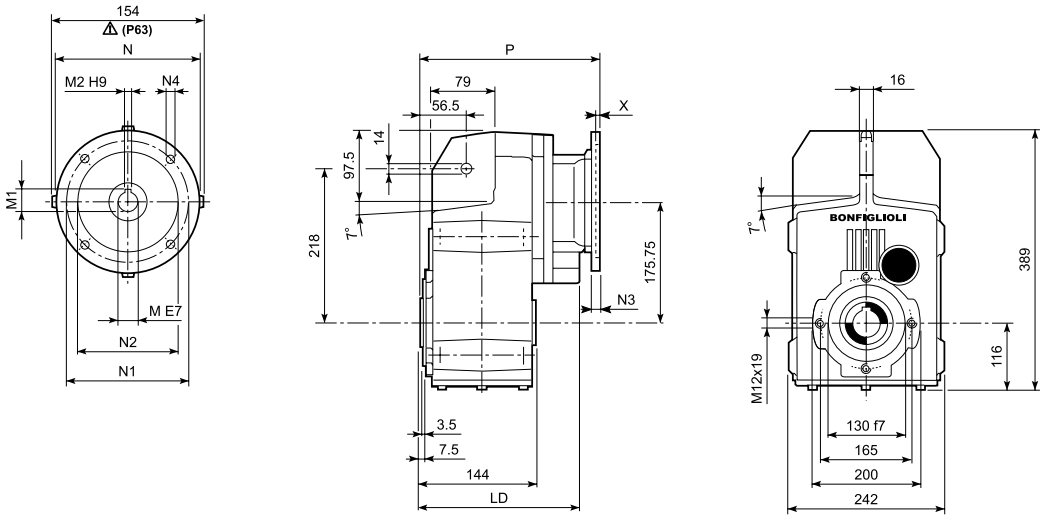
F 31...FSC



	FSC	øQ	J	L	D	H	øU	øK (BOLT-4Nos)	P	lbs
F 31 2/3/4	**1**	1-1/2	9	19.571	0.875	3	17/32	1/2	4	25
F 31 2/3/4	**2**	2	9	19.571	0.875	3	21/32	5/8	5-1/8	28
F 31 2/3/4	**3**	2-7/16	9.6875	20.261	0.9375	3	21/32	5/8	5-5/8	33

* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 41...P(IEC)

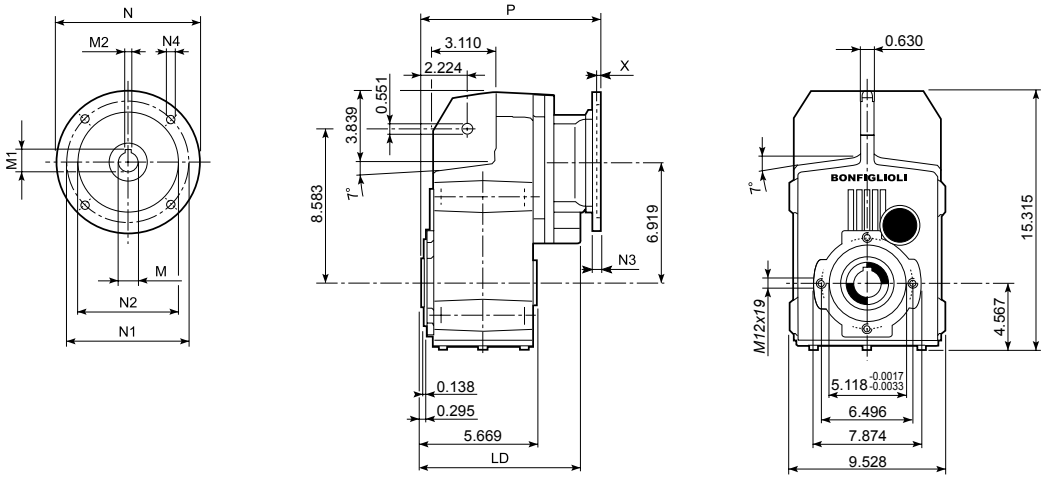


Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 41 2/3	**P63**	215	11	12.8	4	140	115	95	—	M8x19	4	246	42
F 41 2/3	**P71**	215	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
F 41 2/3	**P80**	231	19	21.8	6	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	**P90**	231	24	27.3	8	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	**P100**	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	**P112**	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	**P132**	—	38	41.3	10	300	265	230	16	14	5	312	50
F 41 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	307.5	44
F 41 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	44
F 41 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	327	45
F 41 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	327	45
F 41 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49
F 41 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49

Metric output versions available also in combination with NEMA motor adaptor

F 41...N(NEMA Input)

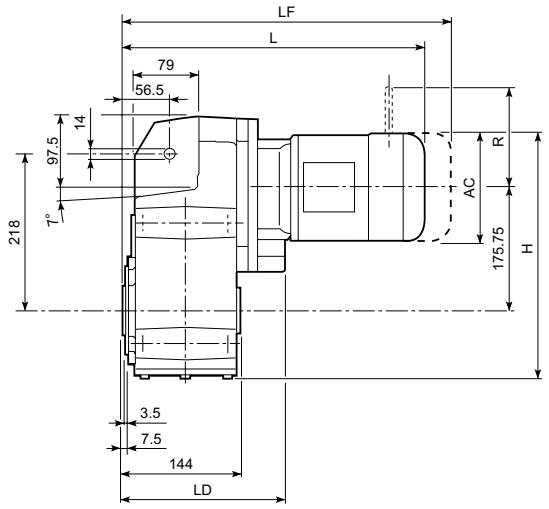


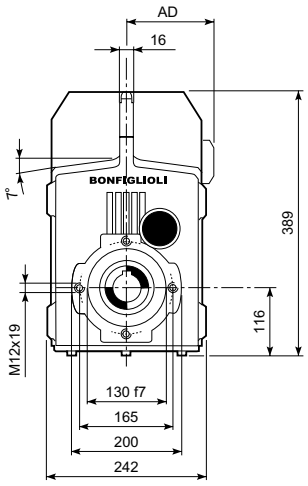
Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 41 2/3	**N56C**	8.465	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	10.472	93
F 41 2/3	**N140TC**	8.465	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	10.472	95
F 41 2/3	**N180TC**	9.094	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	11.220	104
F 41 2/3	**N210TC**	—	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.531	0.531	0.217	12.461	110
F 41 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	12.894	97
F 41 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	12.894	99
F 41 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	13.720	108

Imperial output versions available also in combination with IEC motor adaptor

F 41...M/ME/MX

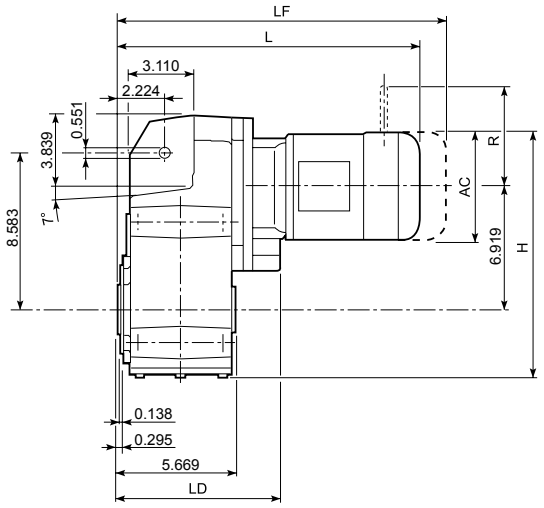


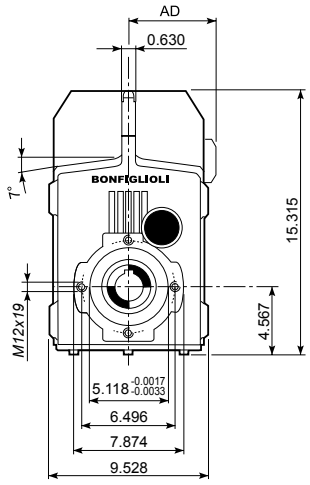


										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 41 2/3	**S1**	**M1**		138	360.8	401	199.5	108	46	462	48	103	135	124	108
F 41 2/3	**S1**	**ME1**		138	360.8	401	199.5	108	46	462	48	103	135	124	135
F 41 2/3	**S2**	**ME2S**		156	369.8	430	215	119	49	486	51.8	129	143	134	143
F 41 2/3	**S2**	**MX2S**		156	369.8	474	215	119	54	532	59	129	143	134	143
F 41 2/3	**S3**	**ME3S**		195	389.3	473	231	142	54	540	61.1	160	155	160	155
F 41 2/3	**S3**	**MX3S**		195	389.3	505	231	142	57	569	66.1	160	155	160	155
F 41 2/3	**S3**	**ME3L**		195	389.3	505	231	142	64	567	67.6	160	155	160	155
F 41 2/3	**S3**	**MX3L**		195	389.3	549	231	142	70	611	75.1	160	155	160	155
F 41 2/3	**S4**	**ME4**	**MX4**	258	420.8	613	—	193	96	684	105.1	204	210	200	210
F 41 2/3	**S4**	**ME4LB**	**MX4LA**	258	420.8	648	—	193	104	709	119.1	226	210	217	210
F 41 4	**S05**	**M05**		231	352.3	433.5	—	95	45	499.5	46	96	122	116	95
F 41 4	**S05**	**ME05**		231	352.3	433.5	—	95	45	499.5	46	96	119	116	119
F 41 4	**S1**	**M1**		138	360.8	462.5	—	108	47	523.5	49	103	135	124	108
F 41 4	**S1**	**ME1**		138	360.8	462.5	—	108	47	523.5	49	103	135	124	135
F 41 4	**S2**	**ME2S**		156	369.8	491.5	—	119	50	547.5	52.8	129	143	134	143
F 41 4	**S2**	**MX2S**		156	369.8	535.5	—	119	55	593.5	60	129	143	134	143
F 41 4	**S3**	**ME3S**		195	389.3	534.5	—	142	55	601.5	62.1	160	155	160	155
F 41 4	**S3**	**MX3S**		195	389.3	566.5	—	142	58	630.5	67.1	160	155	160	155
F 41 4	**S3**	**ME3L**		195	389.3	566.5	—	142	65	628.5	68.6	160	155	160	155
F 41 4	**S3**	**MX3L**		195	389.3	610.5	—	142	71	672.5	76.1	160	155	160	155

Dimensions are in mm

F 41...M/ME/MX

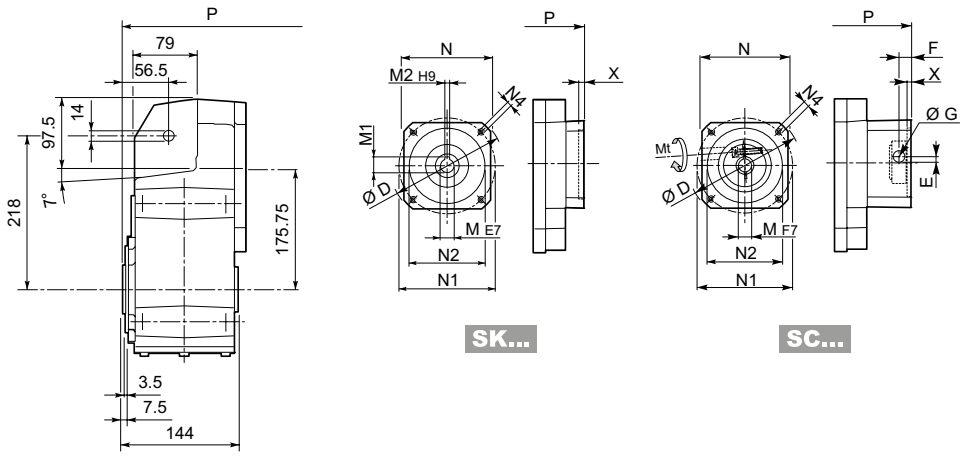




Dimensions are in Inch except when shown in *italic [mm]*

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
F 41 2/3	**S1**	**M1**		5.433	14.205	15.787	7.854	4.252	101	18.189	106	4.055	5.315	4.882	4.252
F 41 2/3	**S2**	**ME2S**		6.142	14.559	16.929	8.465	4.685	108	—	—	—	—	—	—
F 41 2/3	**S2**	**MX2S**		6.142	14.559	18.661	8.465	4.685	119	—	—	—	—	—	—
F 41 2/3	**S3**	**ME3S**		7.677	15.327	18.622	9.094	5.591	119	—	—	—	—	—	—
F 41 2/3	**S3**	**MX3S**		7.677	15.327	19.882	9.094	5.591	126	—	—	—	—	—	—
F 41 2/3	**S3**	**ME3L**		7.677	15.327	19.882	9.094	5.591	141	—	—	—	—	—	—
F 41 2/3	**S3**	**MX3L**		7.677	15.327	21.614	9.094	5.591	154	—	—	—	—	—	—
F 41 2/3	**S4**	**ME4**	**MX4**	10.157	16.567	24.134	—	7.598	212	—	—	—	—	—	—
F 41 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	16.567	25.512	—	7.598	229	—	—	—	—	—	—
F 41 4	**S05**	**M05**		9.094	13.870	17.067	—	3.740	99	19.665	101	3.780	4.803	4.567	3.740
F 41 4	**S1**	**M1**		5.433	14.205	18.209	—	4.252	104	20.610	108	4.055	5.315	4.882	4.252
F 41 4	**S2**	**ME2S**		6.142	14.559	19.350	—	4.685	110	—	—	—	—	—	—
F 41 4	**S2**	**MX2S**		6.142	14.559	21.083	—	4.685	121	—	—	—	—	—	—
F 41 4	**S3**	**ME3S**		7.677	15.327	21.043	—	5.591	121	—	—	—	—	—	—
F 41 4	**S3**	**MX3S**		7.677	15.327	22.303	—	5.591	128	—	—	—	—	—	—
F 41 4	**S3**	**ME3L**		7.677	15.327	22.303	—	5.591	143	—	—	—	—	—	—
F 41 4	**S3**	**MX3L**		7.677	15.327	24.035	—	5.591	157	—	—	—	—	—	—

F 41...SK / SC

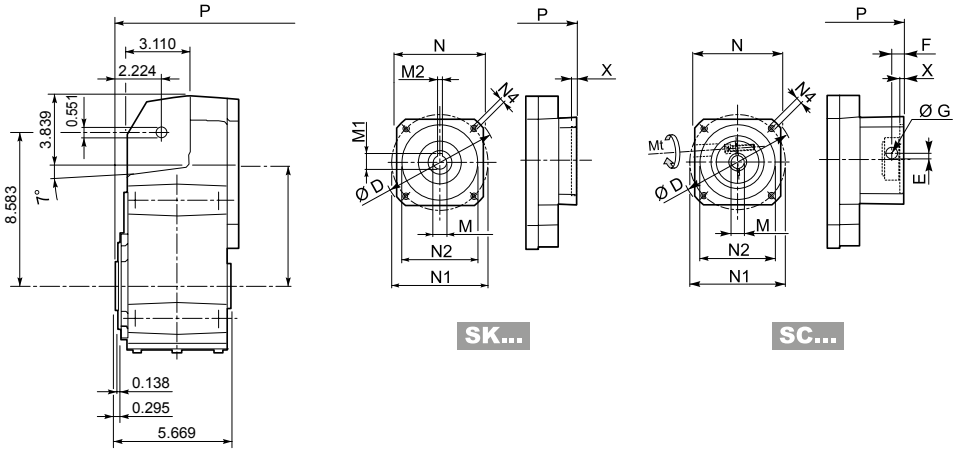


Dimensions are in mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 41 4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	—	—	279	43
F 41 4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	—	—	286	44
F 41 4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	—	—	286	44
F 41 2/3	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	265.5	43	—	—
F 41 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	265.5	45	—	—
F 41 2/3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	312	47	—	—
F 41 2/3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	312	47	—	—
F 41 2/3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	312	47	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 41 4	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	—	306	44
F 41 4	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	—	306	45
F 41 4	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	—	306	45
F 41 2/3	**SC 80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	289	44	—	—
F 41 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	289	44	350.5	46
F 41 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	289	46	—	—
F 41 2/3	**SC 130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	335	50	—	—
F 41 2/3	**SC 180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	339	50	—	—
F 41 2/3	**SC 180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	339	50	—	—

F 41...SK / SC

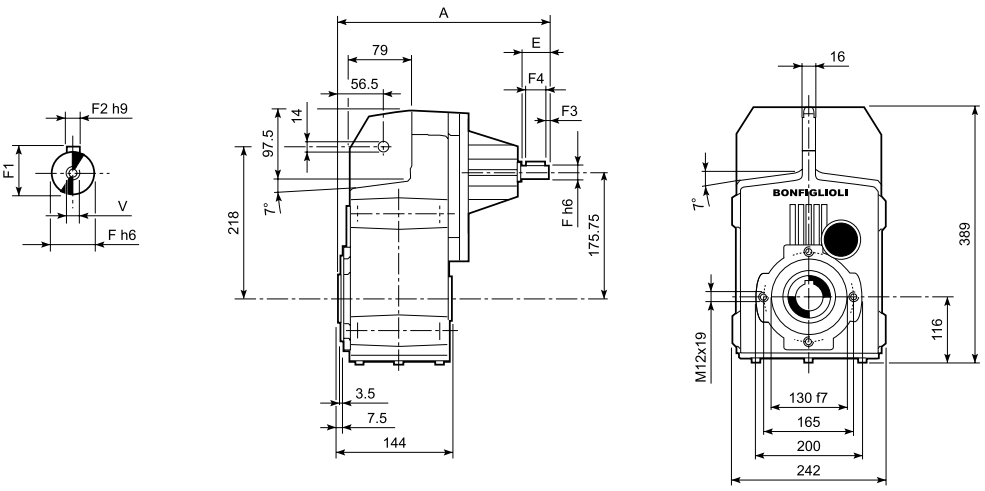


Dimensions are in Inch except when shown in *italic [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 41 4	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	—	—	10.984	95
F 41 4	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	—	—	11.260	97
F 41 4	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	—	—	11.260	97
F 41 2/3	**SK 80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	10.453	95	—	—
F 41 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	10.453	95	12.874	99
F 41 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	10.453	95	12.874	99
F 41 2/3	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	10.453	99	—	—
F 41 2/3	**SK 130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	12.283	104	—	—
F 41 2/3	**SK 180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	12.283	104	—	—
F 41 2/3	**SK 180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	12.283	104	—	—

														2/3x		4x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 41 4	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	—	12.047	97
F 41 4	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	—	12.047	99
F 41 4	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	—	—	12.047	99
F 41 2/3	**SC 80B**	*M6*	133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	11.378	97	—	—
F 41 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	11.378	99	13.799	104
F 41 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	11.378	99	13.799	104
F 41 2/3	**SC 130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	11.378	101	—	—
F 41 2/3	**SC 130B**	*M8*	319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	13.189	110	—	—
F 41 2/3	**SC 180A**	*M8*	319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	13.346	110	—	—
F 41 2/3	**SC 180B**	*M8*	319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	13.346	110	—	—

F 41...HS

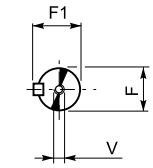


Dimensions are in mm

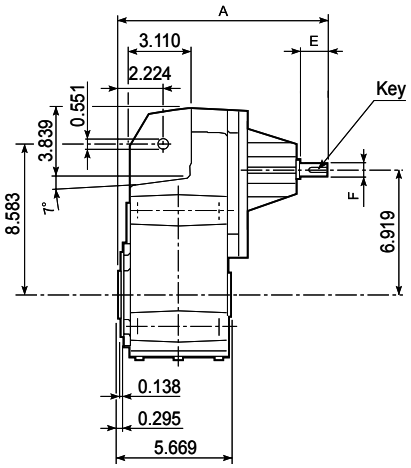
		A	E	F	F1	F2	F3	F4	V	Kg
F 41 2	**HS**	335.5	50	24	27	8	2.5	45	M8x19	44.9
F 41 3		335.5	50	24	27	8	2.5	45	M8x19	46.4
F 41 4		357.5	40	19	21.5	6	2.5	35	M6x16	43.5

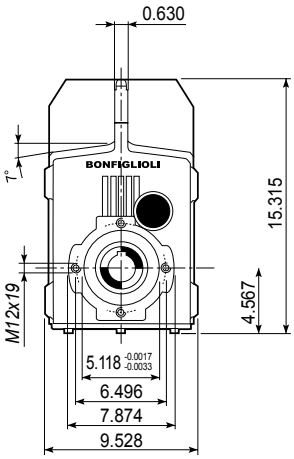
Metric output versions available also in combination with NHS input

F 41...NHS



INPUT
(Inch Series)





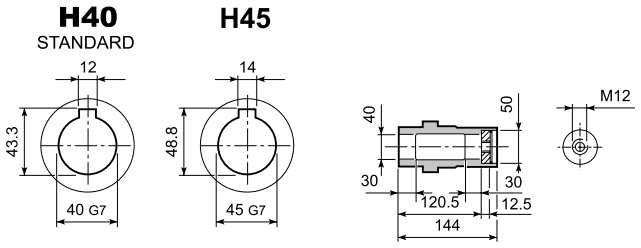
Dimensions are in Inch except when shown in *italic [mm]*

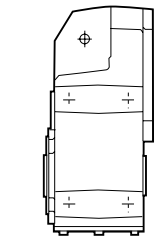
		A	E	F	F1	V	Key	lbs
F 41 2	**NHS**	13.209	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	99
F 41 3		13.209	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	102
F 41 4		14.075	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	96

Imperial output versions available also in combination with HS input

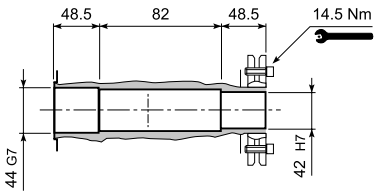
F 41

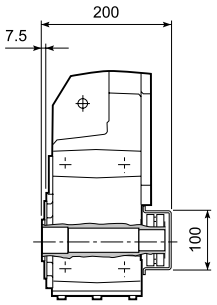
F 41...H



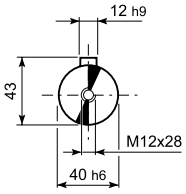


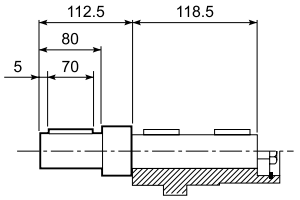
F 41...S

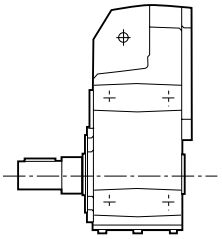




F 41...R



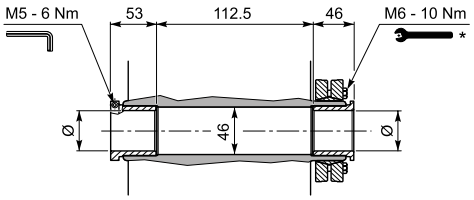


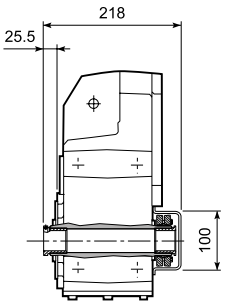


F 41...QF

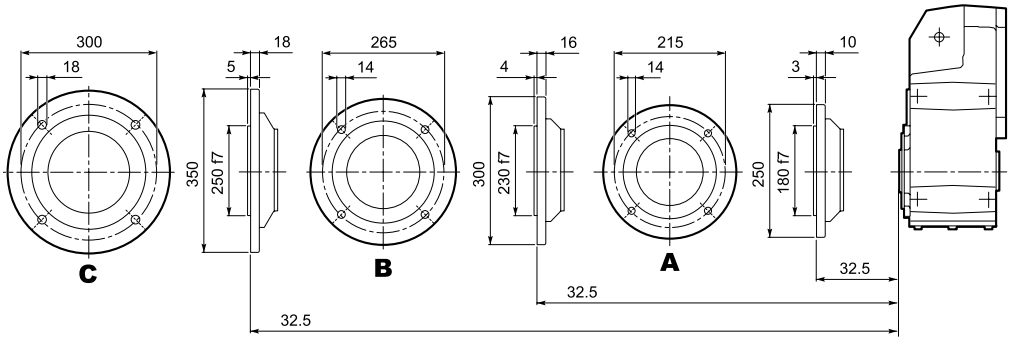
	Ø
QF42	42
QF45	45

$M_{n2\ max}$ [Nm]	
F 41 QF42	850
F 41 QF45	1000



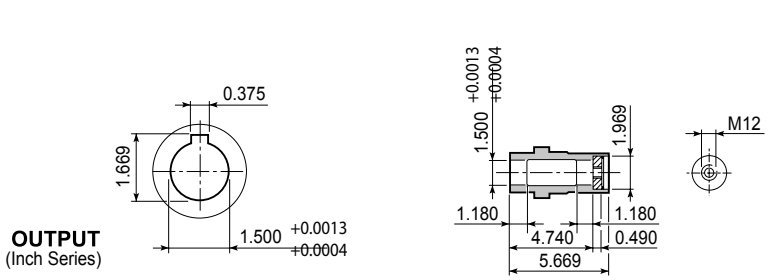


F 41...F...

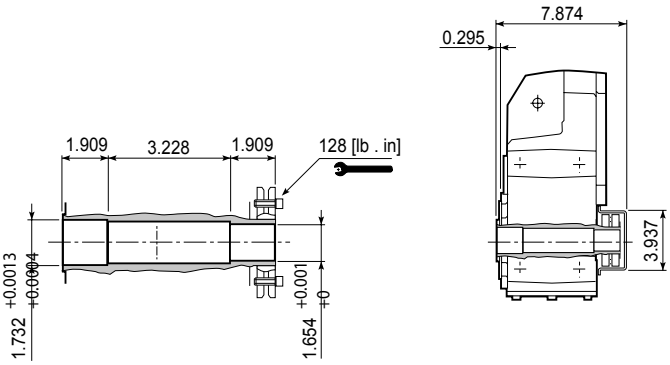


* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

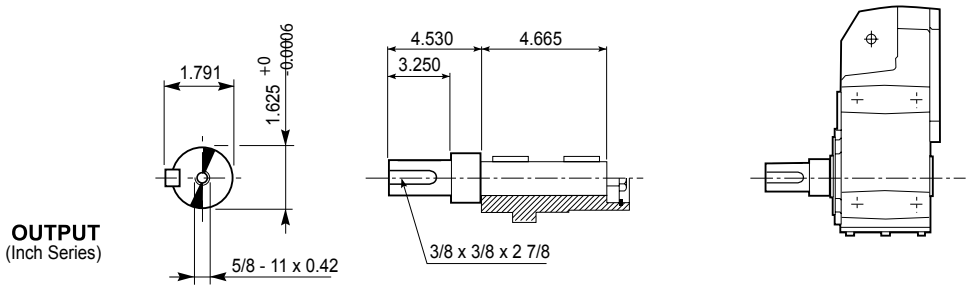
F 41...NH



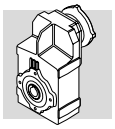
F 41...S



F 41...NR



* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

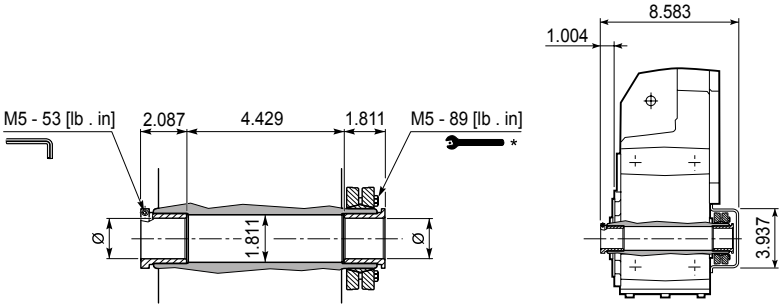


F 41

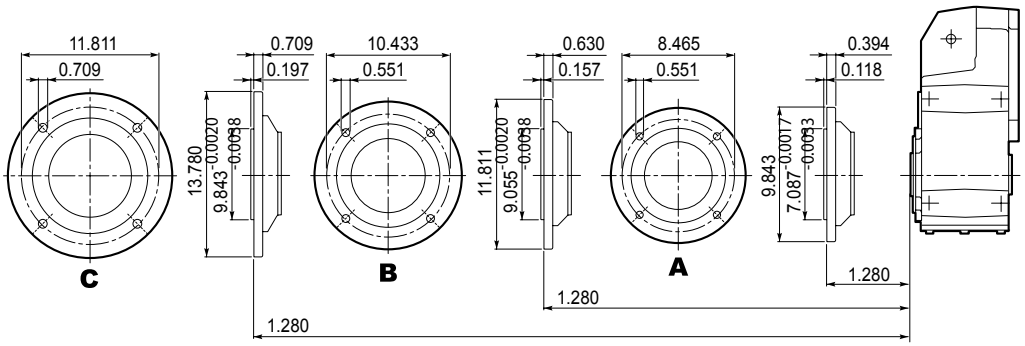
F 41...NQF

	Ø
NQF1-5/8	1.625
NQF1-3/4	1.750

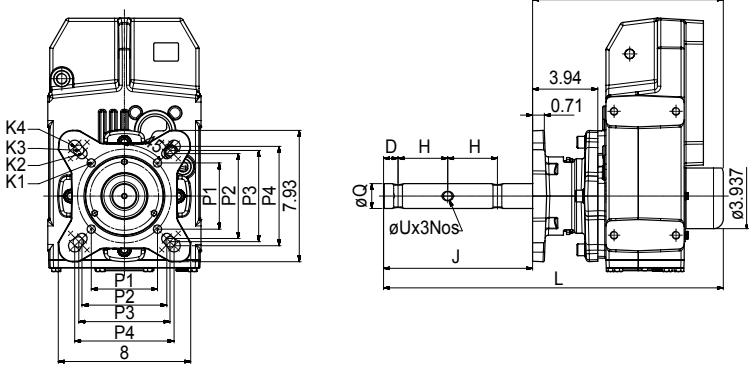
$T_{n2\ max}$ [lb · in]	
F 41 NQF1-5/8	7529
F 41 NQF1-3/4	8857



F 41...F...



F 41...FSC

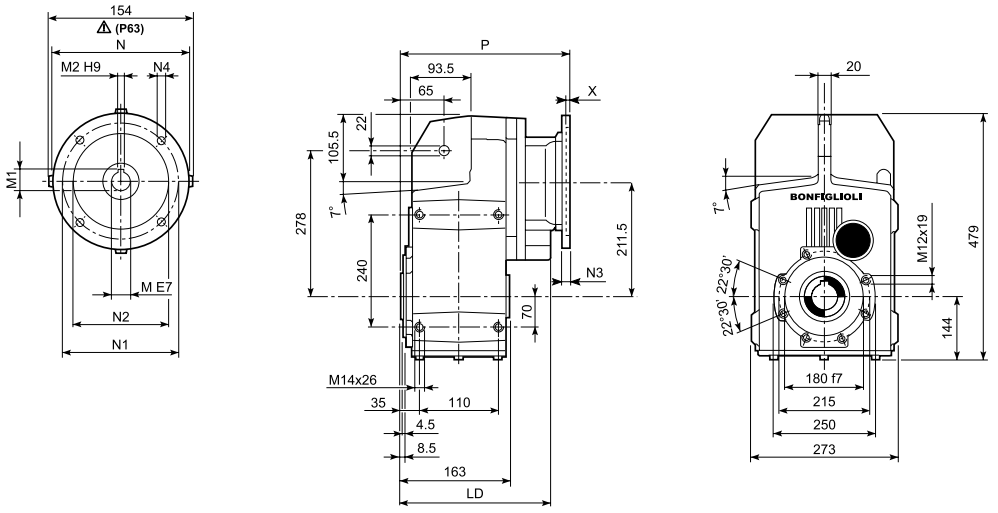


Dimensions are in Inch except when shown in *italic [mm]*

	FSC	øQ	J	L	D	H	øU	øK (BOLT-4Nos)	P	lbs
F 41 2/3/4	**1**	1-1/2	9	20.516	0.875	3	17/32	1/2	4	32
F 41 2/3/4	**2**	2	9	20.516	0.875	3	21/32	5/8	5-1/8	35
F 41 2/3/4	**3**	2-7/16	9.6875	21.206	0.9375	3	21/32	5/8	5-5/8	40
F 41 2/3/4	**4**	3	9.875	21.391	1	3	25/32	3/4	6	46

* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 51...P(IEC)

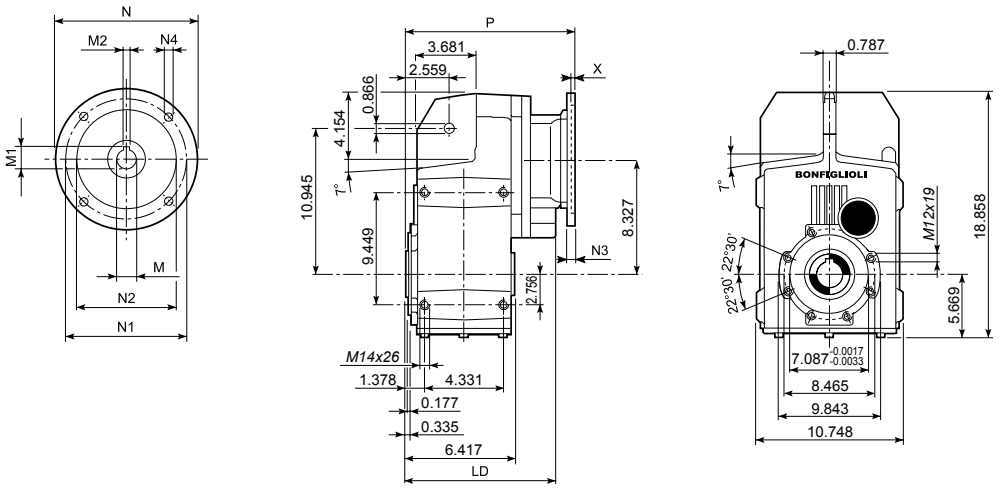


Dimensions are in mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 51 2/3	**P63**	238	11	12.8	4	140	115	95	—	M8x19	4	268	65
F 51 2/3	**P71**	238	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
F 51 2/3	**P80**	253	19	21.8	6	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	**P90**	253	24	27.3	8	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	**P100**	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	**P112**	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	**P132**	238	38	41.3	10	300	265	230	16	14	5	334	74
F 51 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	384.5	78
F 51 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	384.5	78
F 51 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	339.5	70
F 51 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	339.5	70
F 51 4	**P80**	—	19	21.8	6	200	165	130	—	M10x14.5	4	359	71
F 51 4	**P90**	—	24	27.3	8	200	165	130	—	M10x14.5	4	359	71
F 51 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
F 51 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75

Metric output versions available also in combination with NEMA motor adaptor

F 51...N(NEMA Input)

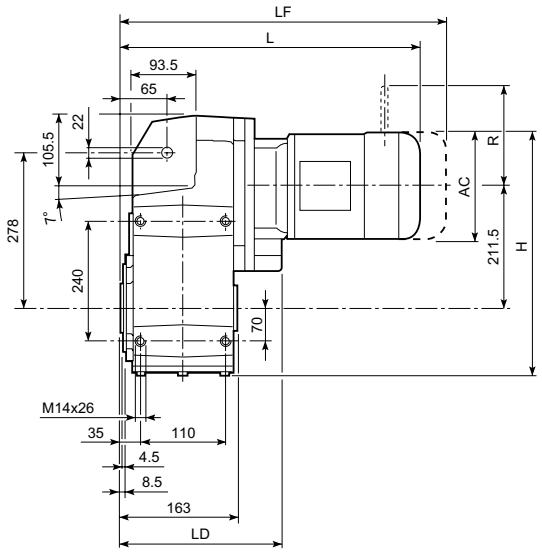


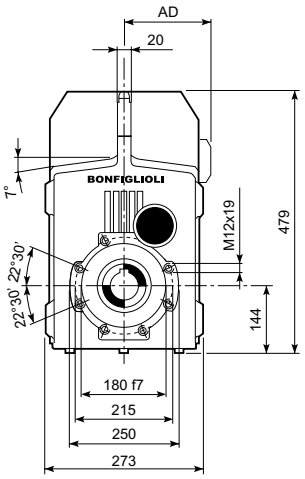
Dimensions are in Inch except when shown in *italic [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 51 2/3	**N56C**	9.370	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.339	143
F 51 2/3	**N140TC**	9.370	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.339	148
F 51 2/3	**N180TC**	9.961	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	12.087	157
F 51 2/3	**N210TC**	9.370	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	13.327	163
F 51 2/3	**N250TC**	—	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	16.122	202
F 51 2/3	**N280TC**	—	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	16.319	205
F 51 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	14.154	154
F 51 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	14.154	157
F 51 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	14.980	165

Imperial output versions available also in combination with IEC motor adaptor

F 51...M/ME/MX

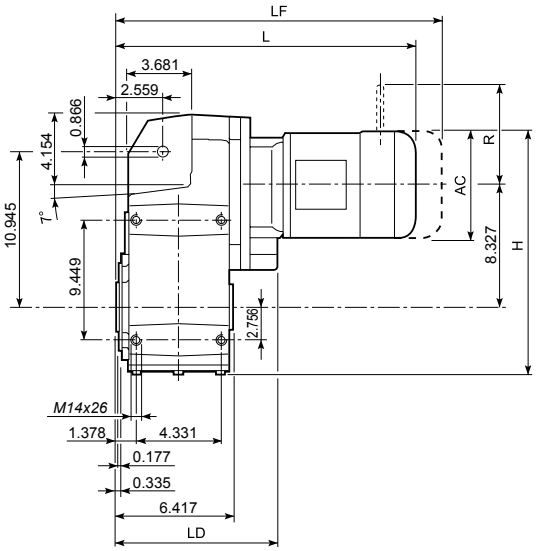


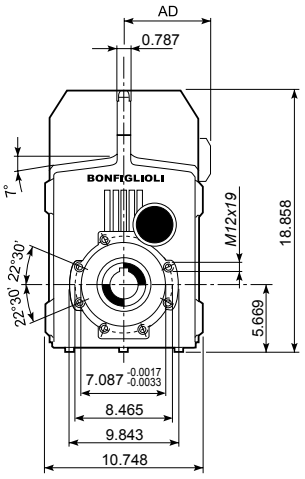


Dimensions are in mm

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 51 2/3	**S1**	**M1**		138	424	423	—	108	73	484	76	103	135	124	108
F 51 2/3	**S1**	**ME1**		138	424	423	—	108	73	—	—	—	—	—	—
F 51 2/3	**S2**	**ME2S**		156	433	452	238	119	73	508	78.8	129	143	124	143
F 51 2/3	**S2**	**MX2S**		156	433	496	238	119	78	554	86	129	143	124	143
F 51 2/3	**S3**	**ME3S**		195	452.5	495	253	142	77	562	88.1	160	155	160	155
F 51 2/3	**S3**	**MX3S**		195	452.5	527	253	142	80	591	93.1	160	155	160	155
F 51 2/3	**S3**	**ME3L**		195	452.5	527	253	142	87	589	94.6	160	155	160	155
F 51 2/3	**S3**	**MX3L**		195	452.5	571	253	142	93	633	102.1	160	155	160	155
F 51 2/3	**S4**	**ME4**	**MX4**	258	484	635	238	193	119	706	132.1	204	210	200	210
F 51 2/3	**S4**	**ME4LB**	**MX4LA**	258	484	670	238	193	127	731	146.1	226	210	217	210
F 51 2/3	**S5**	**ME5S**	**MX5S**	310	510	721.5	—	245	153	794	206.1	266	245	247	245
F 51 2/3	**S5**	**ME5L**	**MX5L**	310	510	765.5	—	245	169	838	217.1	266	245	247	245
F 51 4	**S1**	**M1**		138	424	494.5	—	108	75	555.5	78	103	135	124	108
F 51 4	**S1**	**ME1**		138	424	494.5	—	108	75	—	—	—	—	—	—
F 51 4	**S2**	**ME2S**		156	433	523.5	—	119	79	579.5	80.8	129	143	124	143
F 51 4	**S2**	**MX2S**		156	433	567.5	—	119	79	625.5	88	129	143	124	143
F 51 4	**S3**	**ME3S**		195	452.5	566.5	—	142	84	633.5	90.1	160	155	160	155
F 51 4	**S3**	**MX3S**		195	452.5	598.5	—	142	84	662.5	95.1	160	155	160	155
F 51 4	**S3**	**ME3L**		195	452.5	598.5	—	142	93	660.5	96.6	160	155	160	155
F 51 4	**S3**	**MX3L**		195	452.5	642.5	—	142	93	704.5	104.1	160	155	160	155

F 51...M/ME/MX

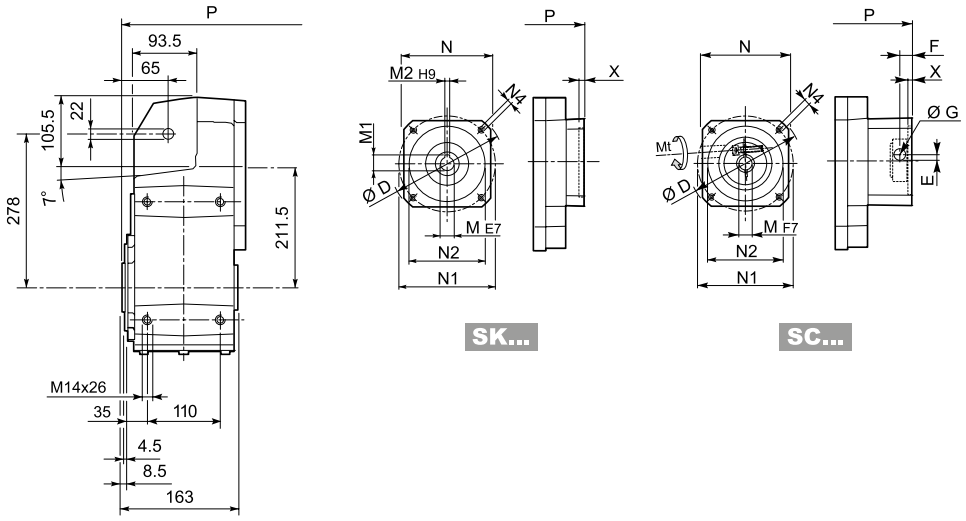




Dimensions are in Inch except when shown in *italic [mm]*

										M...FD M...FA		M...FD		M...FA	
				AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
F 51 2/3	**S1**	**M1**		5.433	16.693	16.654	—	4.252	161	19.055	168	4.055	5.315	4.882	4.252
F 51 2/3	**S2**	**ME2S**		6.142	17.047	17.795	9.370	4.685	161	—	—	—	—	—	—
F 51 2/3	**S2**	**MX2S**		6.142	17.047	19.528	9.370	4.685	172	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3S**		7.677	17.815	19.488	9.961	5.591	170	—	—	—	—	—	—
F 51 2/3	**S3**	**MX3S**		7.677	17.815	20.748	9.961	5.591	176	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3L**		7.677	17.815	20.748	9.961	5.591	192	—	—	—	—	—	—
F 51 2/3	**S3**	**MX3L**		7.677	17.815	22.480	9.961	5.591	205	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4**	**MX4**	10.157	19.055	25.000	9.370	7.598	262	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4LB**	**MX4LA**	10.157	19.055	26.378	9.370	7.598	280	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5S**	**MX5S**	12.205	20.079	28.406	—	9.646	337	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5L**	**MX5L**	12.205	20.079	30.138	—	9.646	373	—	—	—	—	—	—
F 51 4	**S1**	**M1**		5.433	16.693	19.469	—	4.252	165	21.870	172	4.055	5.315	4.882	4.252
F 51 4	**S2**	**ME2S**		6.142	17.047	20.610	—	4.685	174	—	—	—	—	—	—
F 51 4	**S2**	**MX2S**		6.142	17.047	22.343	—	4.685	174	—	—	—	—	—	—
F 51 4	**S3**	**ME3S**		7.677	17.815	22.303	—	5.591	185	—	—	—	—	—	—
F 51 4	**S3**	**MX3S**		7.677	17.815	23.563	—	5.591	185	—	—	—	—	—	—
F 51 4	**S3**	**ME3L**		7.677	17.815	23.563	—	5.591	205	—	—	—	—	—	—
F 51 4	**S3**	**MX3L**		7.677	17.815	25.295	—	5.591	205	—	—	—	—	—	—

F 51...SK / SC

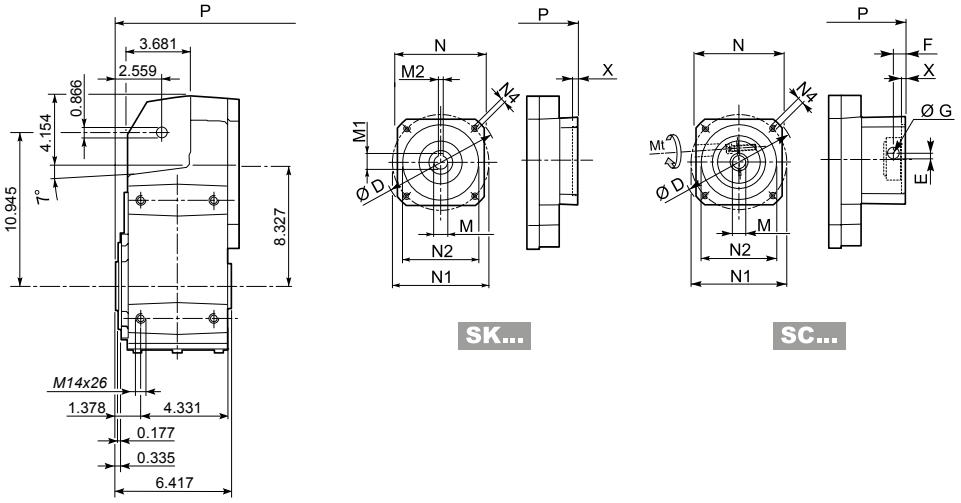


Dimensions are in mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 51 2/3	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	287.5	67	—	—
F 51 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	287.5	67	359	71
F 51 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	287.5	69	359	73
F 51 2/3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	334	75	—	—
F 51 2/3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	334	75	—	—
F 51 2/3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	334	75	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 51 2/3	**SC 80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	311	70	—	—
F 51 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	311	70	382.5	74
F 51 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	311	72	382.5	76
F 51 2/3	**SC 130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	357	75	—	—
F 51 2/3	**SC 180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	361	75	—	—
F 51 2/3	**SC 180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	361	75	—	—

F 51...SK / SC

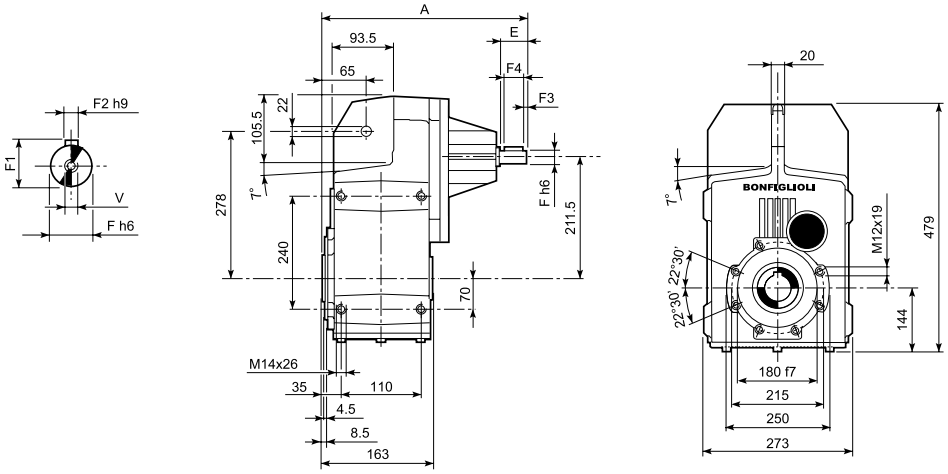


Dimensions are in Inch except when shown in *italic [mm]*

												2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 51 2/3	**SK 80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	11.319	148	—	—
F 51 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.319	148	14.134	157
F 51 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.319	148	14.134	157
F 51 2/3/4	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	11.319	152	14.134	161
F 51 2/3	**SK 130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	13.150	165	—	—
F 51 2/3	**SK 180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	13.150	165	—	—
F 51 2/3	**SK 180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	13.150	165	—	—

														2/3x		4x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 51 2/3	**SC 80B**	*M6*	133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	12.244	154	—	—
F 51 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.244	157	15.059	165
F 51 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.244	157	15.059	165
F 51 2/3/4	**SC 130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	12.244	159	15.059	168
F 51 2/3	**SC 130B**	*M8*	319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	14.055	165	—	—
F 51 2/3	**SC 180A**	*M8*	319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	14.213	165	—	—
F 51 2/3	**SC 180B**	*M8*	319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	14.213	165	—	—

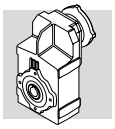
F 51...HS



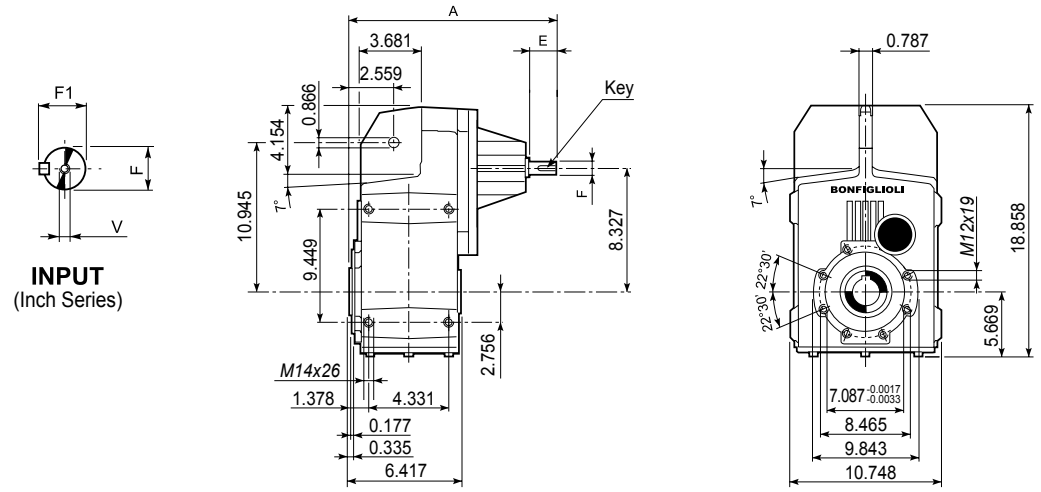
Dimensions are in mm

		A	E	F	F1	F2	F3	F4	V	Kg
F 51 2	**HS**	357.5	50	24	27	8	2.5	45	M8x19	65
F 51 3		357.5	50	24	27	8	2.5	45	M8x19	68
F 51 4		389.5	40	19	21.5	6	2.5	35	M6x16	70

Metric output versions available also in combination with NHS input



F 51...NHS



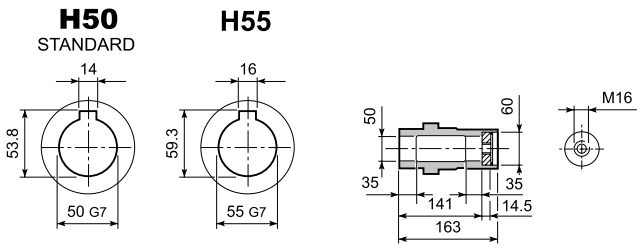
Dimensions are in Inch except when shown in *italic [mm]*

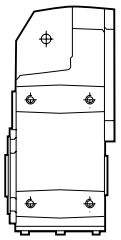
		A	E	F	F1	V	Key	lbs
F 51 2	**NHS**	14.075	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	143
F 51 3		14.075	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	150
F 51 4		15.335	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	154

Imperial output versions available also in combination with HS input

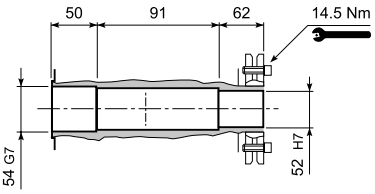
F 51

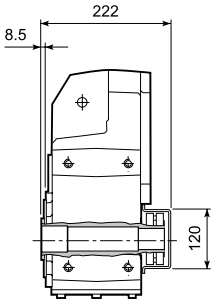
F 51...H



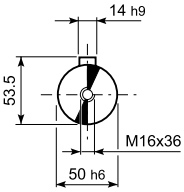


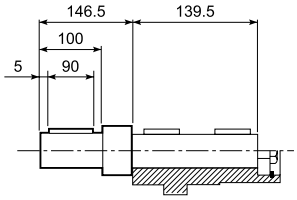
F 51...S

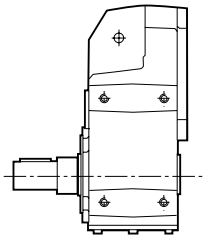




F 51...R



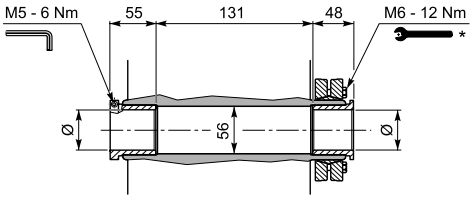


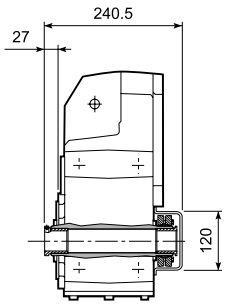


F 51...QF

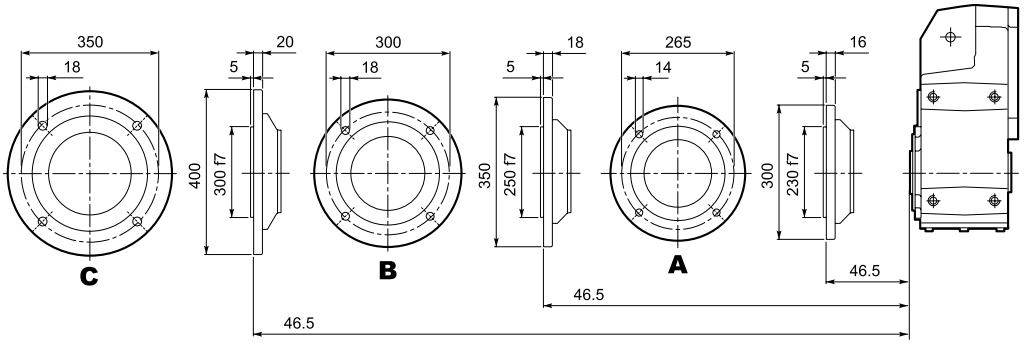
	Ø
QF50	50
QF55	55

$M_{n2\ max}$ [Nm]	
F 51 QF50	1750





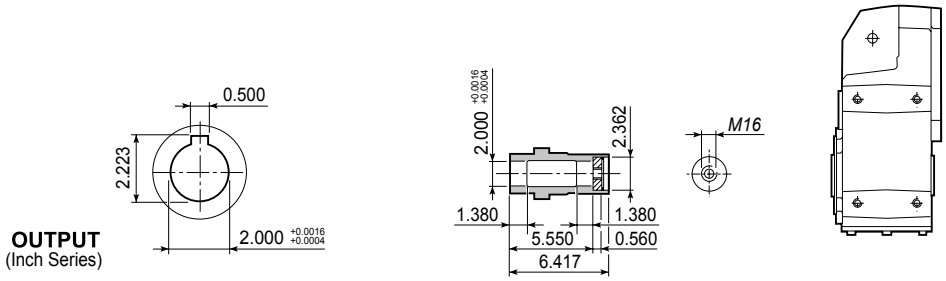
F 51...F...



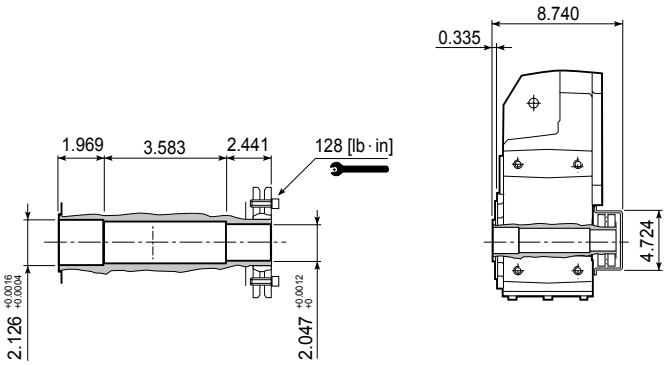
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 51

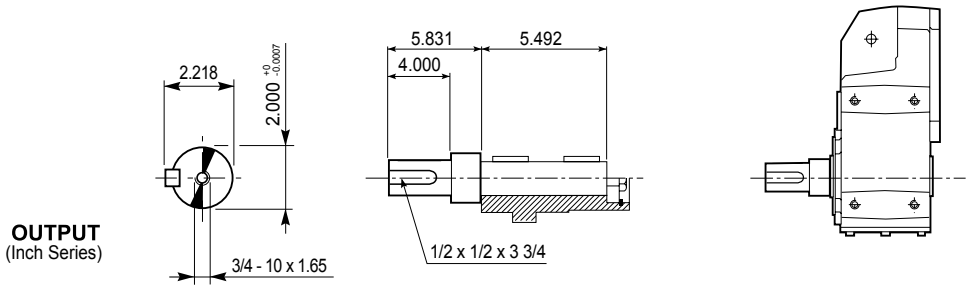
F 51...NH



F 51...S



F 51...NR



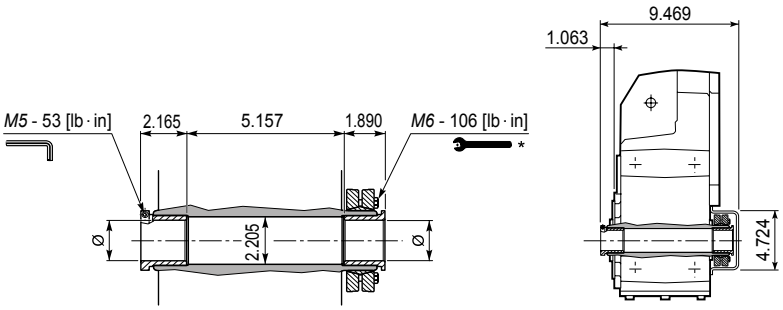
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 51

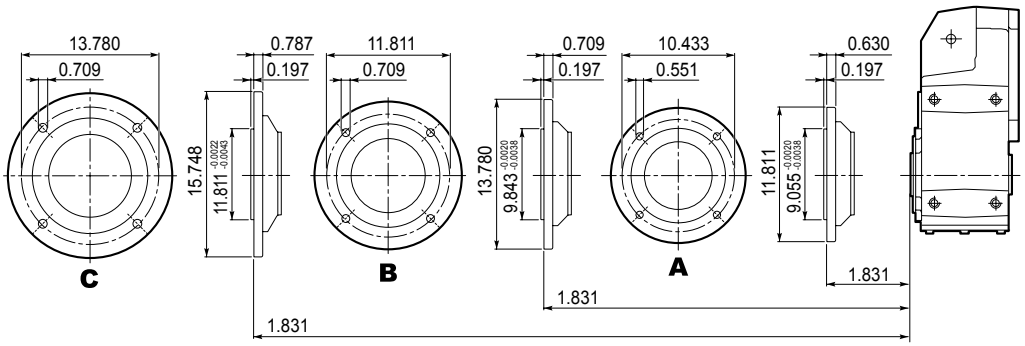
F 51...NQF

	Ø
NQF1-15/16	1.938
NQF2	2.000

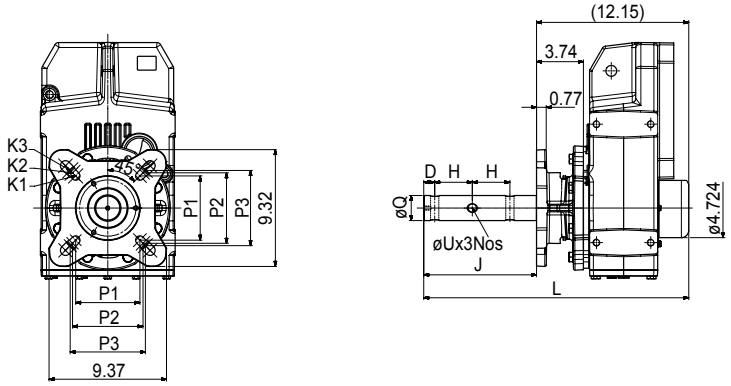
$T_{n2\ max}$ [lb · in]	
F 51 NQF1-15/16	15500
F 51 NQF2	



F 51...F...



F 51...FSC

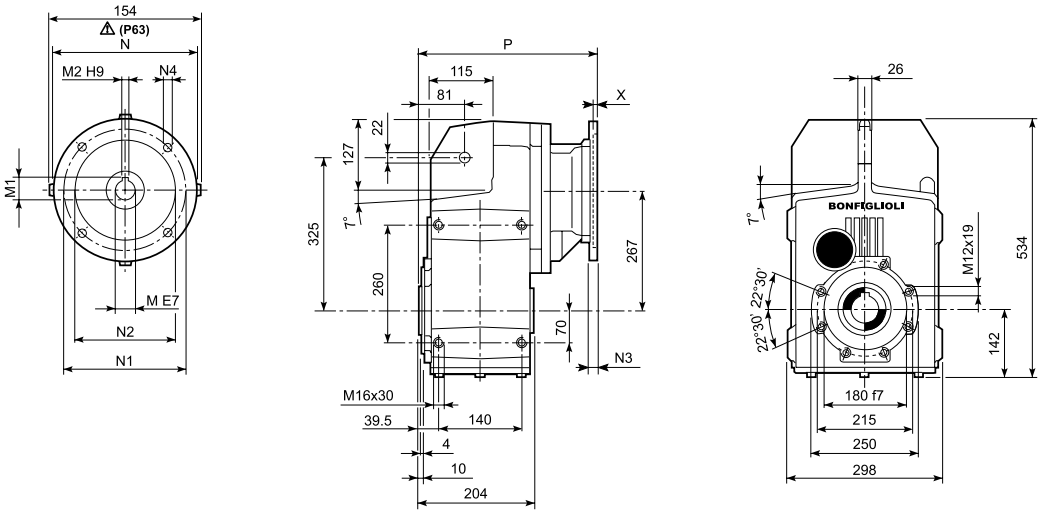


Dimensions are in Inch except when shown in *italic [mm]*

	FSC	øQ	J	L	D	H	øU	øK (BOLT-4Nos)	P	lbs
F 51 2/3/4	**1**	2	9	21.146	0.875	3	21/32	5/8	5-1/8	52
F 51 2/3/4	**2**	2-7/16	9.6875	21.836	0.9375	3	21/32	5/8	5-5/8	57
F 51 2/3/4	**3**	3	9.875	22.021	1	3	25/32	3/4	6	63

* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 60...P(IEC)

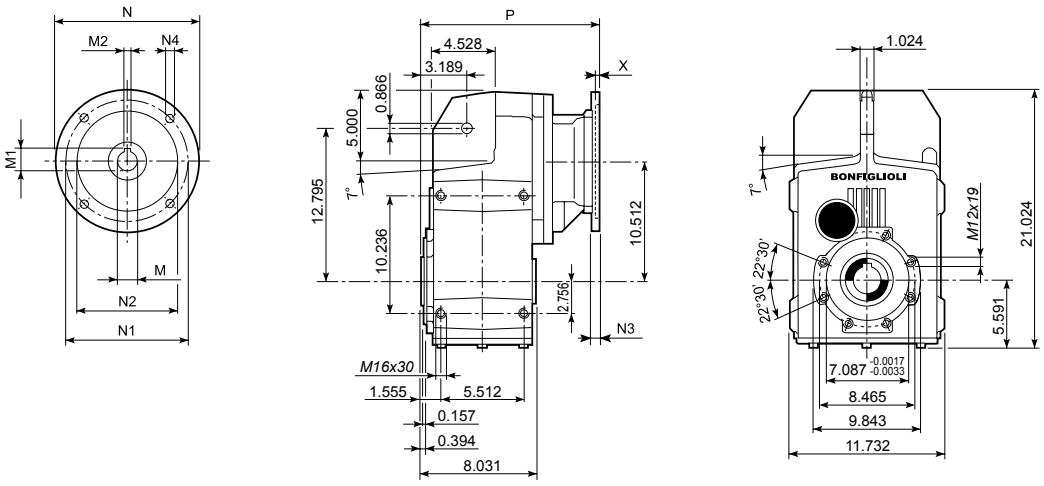


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 60 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	322	104
F 60 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	322	104
F 60 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	**P132**	38	41.3	10	300	265	230	16	14	5	367.5	111
F 60 3	**P160**	42	45.3	12	350	300	250	23	18	5.5	419	116
F 60 3	**P180**	48	51.8	14	350	300	250	23	18	5.5	419	116
F 60 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	373	108
F 60 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	373	108
F 60 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	392.5	110
F 60 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	392.5	110
F 60 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114
F 60 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114

Metric output versions available also in combination with NEMA motor adaptor

F 60...N(NEMA Input)

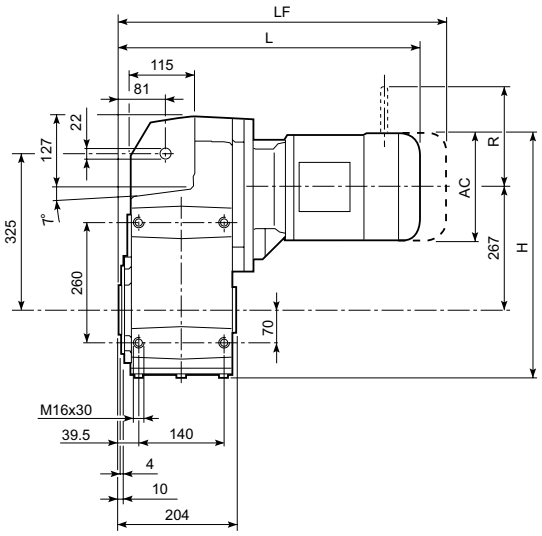


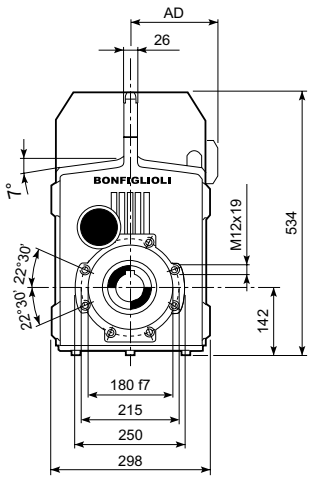
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 60 3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	12.697	227
F 60 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	12.697	229
F 60 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	13.445	238
F 60 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	14.646	245
F 60 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	17.480	285
F 60 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	17.677	289
F 60 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	15.472	238
F 60 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	15.472	243
F 60 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	16.299	251

Imperial output versions available also in combination with IEC motor adaptor

F 60...M/ME/MX

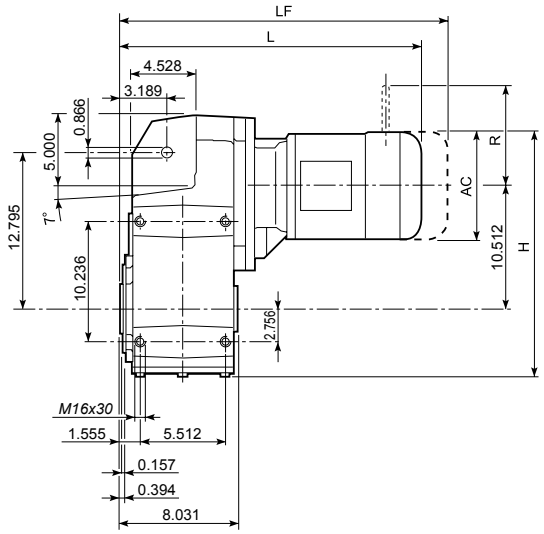


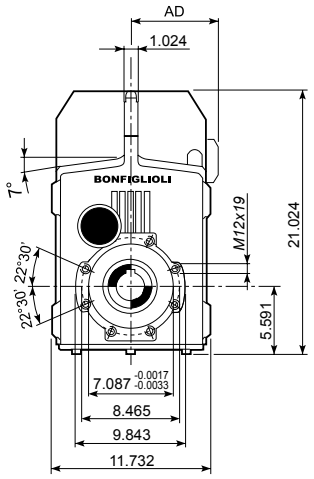


Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 60 3	**S2**	**ME2S**		156	487	486.5	119	114	556.5	116.1	129	143	134	143
F 60 3	**S2**	**MX2S**		156	487	530.5	119	119	602.5	123.3	129	143	134	143
F 60 3	**S3**	**ME3S**		195	506.5	529.5	142	119	610.5	125.4	160	155	160	155
F 60 3	**S3**	**MX3S**		195	506.5	561.5	142	122	639.5	130.4	160	155	160	155
F 60 3	**S3**	**ME3L**		195	506.5	561.5	142	124	637.5	131.9	160	155	160	155
F 60 3	**S3**	**MX3L**		195	506.5	605.5	142	130	681.5	139.4	160	155	160	155
F 60 3	**S4**	**ME4**	**MX4**	258	538	669.5	193	156	754.5	169.4	204	210	200	210
F 60 3	**S4**	**ME4LB**	**MX4LA**	258	538	704.5	193	164	779.5	183.4	226	210	217	210
F 60 3	**S5**	**ME5S**	**MX5S**	310	564	756	245	184	842.5	243.4	266	245	247	245
F 60 3	**S5**	**ME5L**	**MX5L**	310	564	800	245	200	886.5	254.4	266	245	247	245
F 60 4	**S1**	**M1**		138	478	528	108	113	589	116	103	135	124	108
F 60 4	**S1**	**ME1**		138	478	528	108	113	589	116	103	135	124	135
F 60 4	**S2**	**ME2S**		156	487	557	119	117	613	118.8	129	143	134	143
F 60 4	**S2**	**MX2S**		156	487	601	119	122	659	126	129	143	134	143
F 60 4	**S3**	**ME3S**		195	506.5	600	142	122	667	128.1	160	155	160	155
F 60 4	**S3**	**MX3S**		195	506.5	632	142	125	696	133.1	160	155	160	155
F 60 4	**S3**	**ME3L**		195	506.5	632	142	131	694	134.6	160	155	160	155
F 60 4	**S3**	**MX3L**		195	506.5	676	142	137	738	142.1	160	155	160	155
F 60 4	**S4**	**ME4**	**MX4**	258	538	740	193	156	811	172.1	204	210	200	210
F 60 4	**S4**	**ME4LB**	**MX4LA**	258	538	775	193	164	836	186.1	226	210	217	210

F 60...M/ME/MX

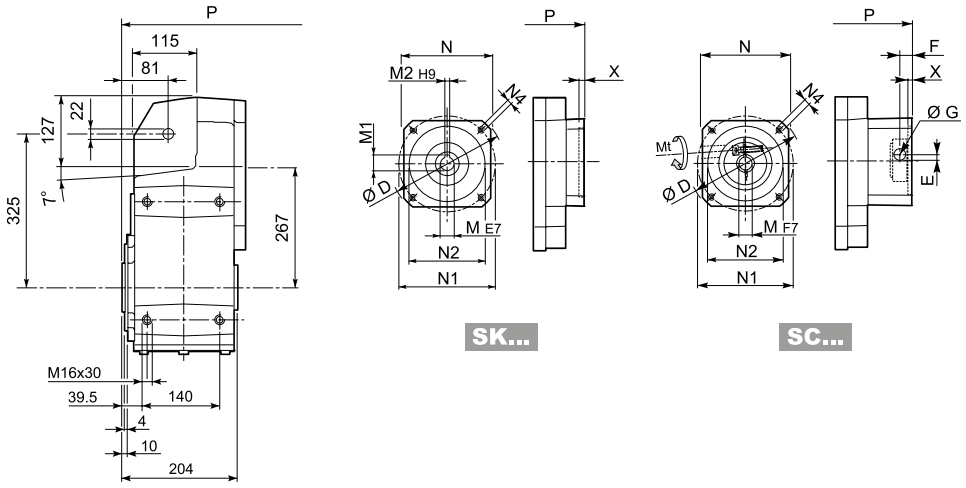




Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 60 3	**S2**	**ME2S**		6.142	19.173	19.154	4.685	251	—	—	—	—	—	—
F 60 3	**S2**	**MX2S**		6.142	19.173	20.886	4.685	262	—	—	—	—	—	—
F 60 3	**S3**	**ME3S**		7.677	19.941	20.846	5.591	262	—	—	—	—	—	—
F 60 3	**S3**	**MX3S**		7.677	19.941	22.106	5.591	269	—	—	—	—	—	—
F 60 3	**S3**	**ME3L**		7.677	19.941	22.106	5.591	273	—	—	—	—	—	—
F 60 3	**S3**	**MX3L**		7.677	19.941	23.839	5.591	287	—	—	—	—	—	—
F 60 3	**S4**	**ME4**	**MX4**	10.157	21.181	26.358	7.598	344	—	—	—	—	—	—
F 60 3	**S4**	**ME4LB**	**MX4LA**	10.157	21.181	27.736	7.598	362	—	—	—	—	—	—
F 60 3	**S5**	**ME5S**	**MX5S**	12.205	22.205	29.764	9.646	406	—	—	—	—	—	—
F 60 3	**S5**	**ME5L**	**MX5L**	12.205	22.205	31.496	9.646	441	—	—	—	—	—	—
F 60 4	**S1**	**M1**		5.433	18.819	20.787	4.252	249	23.189	256	4.055	5.315	4.882	4.252
F 60 4	**S2**	**ME2S**		6.142	19.173	21.929	4.685	258	—	—	—	—	—	—
F 60 4	**S2**	**MX2S**		6.142	19.173	23.661	4.685	269	—	—	—	—	—	—
F 60 4	**S3**	**ME3S**		7.677	19.941	23.622	5.591	269	—	—	—	—	—	—
F 60 4	**S3**	**MX3S**		7.677	19.941	24.882	5.591	276	—	—	—	—	—	—
F 60 4	**S3**	**ME3L**		7.677	19.941	24.882	5.591	289	—	—	—	—	—	—
F 60 4	**S3**	**MX3L**		7.677	19.941	26.614	5.591	302	—	—	—	—	—	—
F 60 4	**S4**	**ME4**	**MX4**	10.157	21.181	29.134	7.598	344	—	—	—	—	—	—
F 60 4	**S4**	**ME4LB**	**MX4LA**	258	538	775	193	164	—	—	—	—	—	—

F 60...SK / SC

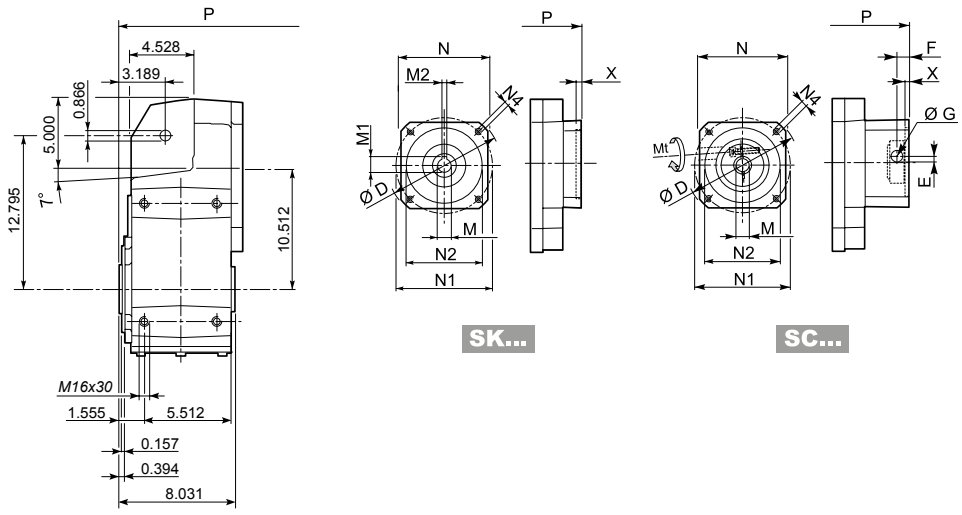


Dimensions are in mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 60 4	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	—	—	392.5	109
F 60 3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	322	106	392.5	112
F 60 3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 110A**	140	19	21.8	6	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	**SK 110B**	140	24	27.3	8	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	322	108	392.5	112
F 60 3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	368.5	109	—	—
F 60 3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	368.5	109	—	—
F 60 3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	368.5	109	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 60 4	**SC 80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	—	416	113
F 60 3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	345.5	107	416	113
F 60 3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 110A**	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	**SC 110B**	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	345.5	109	416	115
F 60 3	**SC 130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	390.5	112	—	—
F 60 3	**SC 180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	394.5	112	—	—
F 60 3	**SC 180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	394.5	112	—	—

F 60...SK / SC

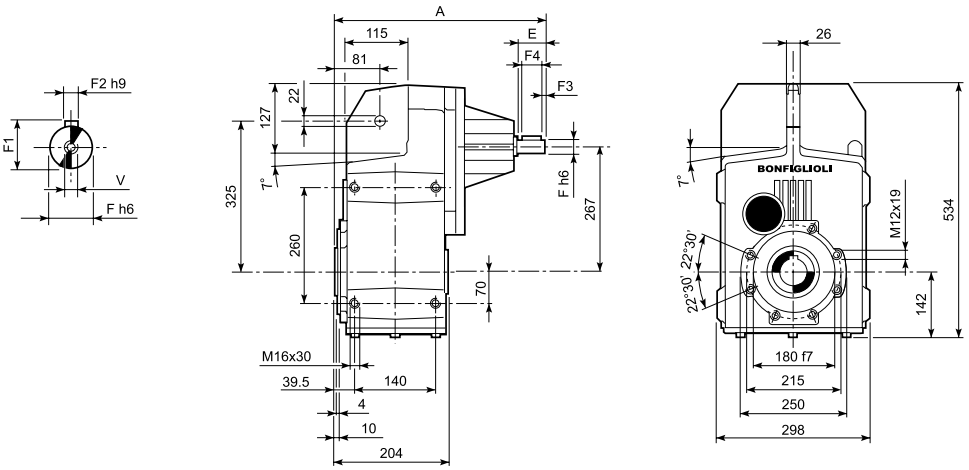


Dimensions are in Inch except when shown in *italic [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 60 4	**SK 80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	—	—	15.453	240
F 60 3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 110A**	5.512	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	12.677	234	15.453	247
F 60 3/4	**SK 110B**	5.512	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	12.677	234	15.453	247
F 60 3/4	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	12.677	238	15.453	247
F 60 3	**SK 130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	14.508	240	—	—
F 60 3	**SK 180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	14.508	240	—	—
F 60 3	**SK 180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	14.508	240	—	—

														2/3x		4x	
			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 60 4	**SC 80B**	*M6*	15	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	—	—	16.378	249
F 60 3/4	**SC 80C**	*M6*	15	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 95A**	*M6*	15	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 95B**	*M6*	15	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 95C**	*M6*	15	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 110A**	*M6*	15	5.512	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	13.602	238	16.378	249
F 60 3/4	**SC 110B**	*M6*	15	5.512	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	13.602	238	16.378	249
F 60 3/4	**SC 130A**	*M6*	15	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	13.602	240	16.378	254
F 60 3	**SC 130B**	*M8*	36	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	15.374	247	—	—
F 60 3	**SC 180A**	*M8*	36	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	15.531	247	—	—
F 60 3	**SC 180B**	*M8*	36	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	15.531	247	—	—

F 60...HS

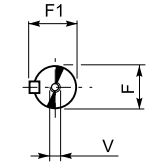


Dimensions are in mm

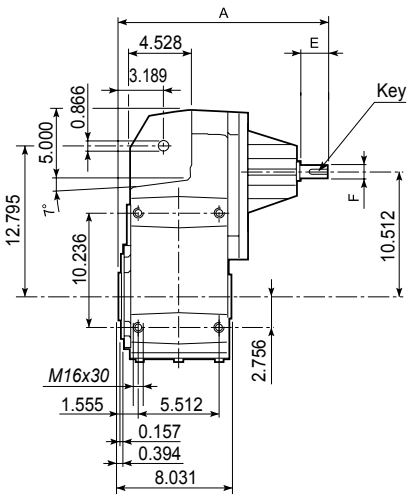
		A	E	F	F1	F2	F3	F4	V	Kg
F 60 3	**HS**	419	60	28	31	8	5.0	50	M10x22	108
F 60 4		462.5	50	24	27	8	2.5	45	M8x19	105

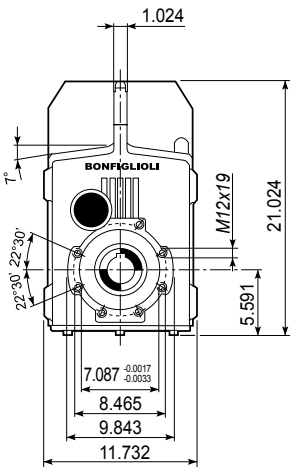
Metric output versions available also in combination with NHS input

F 60...NHS



INPUT
(Inch Series)





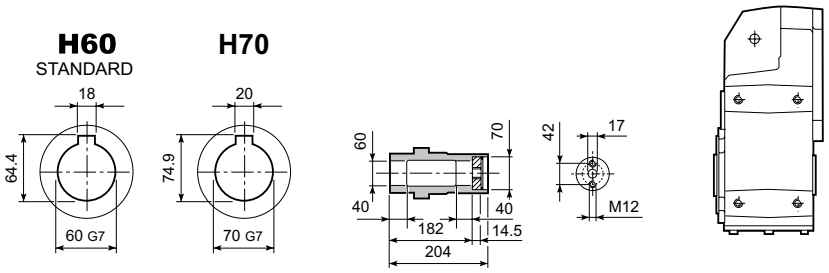
Dimensions are in Inch except when shown in *italic [mm]*

		A	E	F	F1	V	Key	lbs
F 60 3	**NHS**	16.496	2.362	1.125 $^{+0}_{-0.0005}$	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	238
F 60 4		18.209	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	231

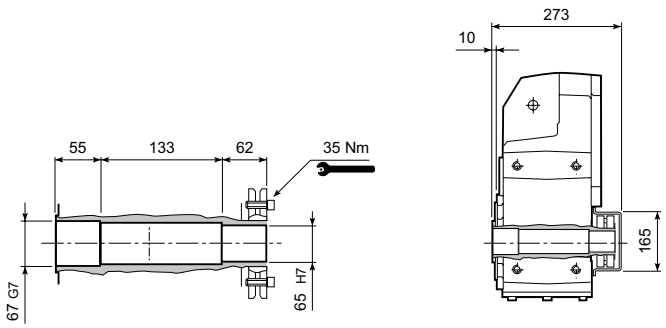
Imperial output versions available also in combination with HS input

F 60

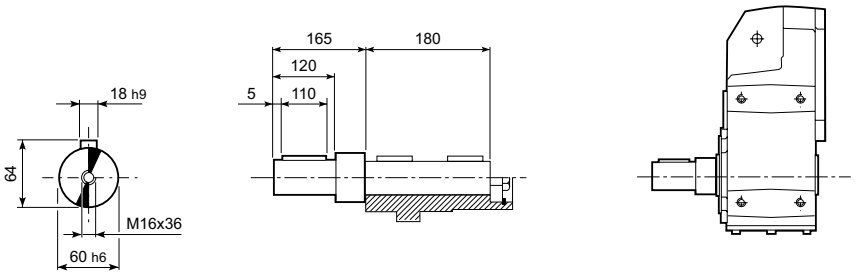
F 60...H



F 60...S

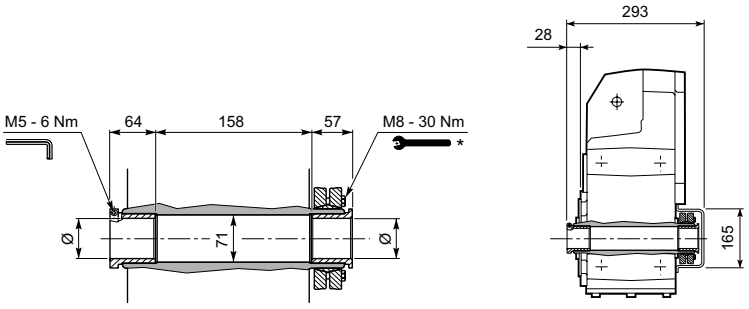


F 60...R

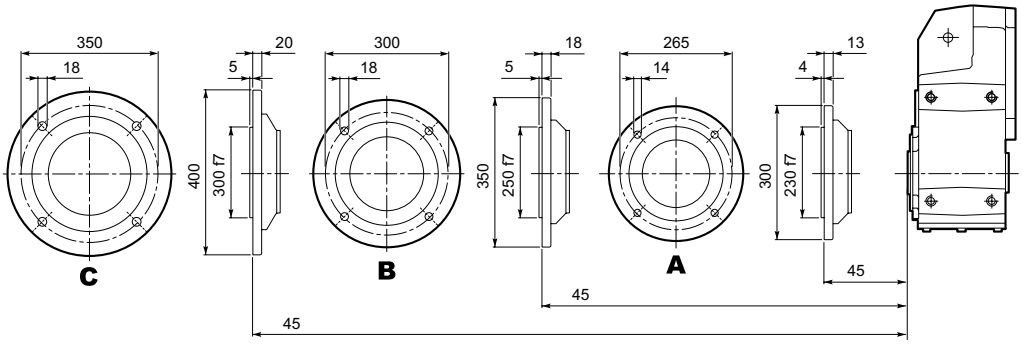


F 60...QF

	Ø
QF60	60
QF65	65
QF70	70



F 60...F...

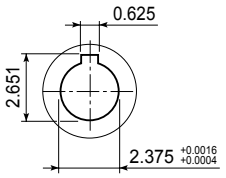


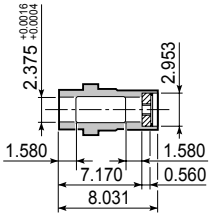
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

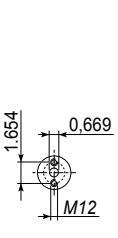
F 60

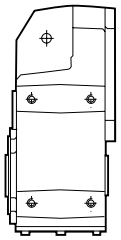
F 60...NH

OUTPUT
(Inch Series)

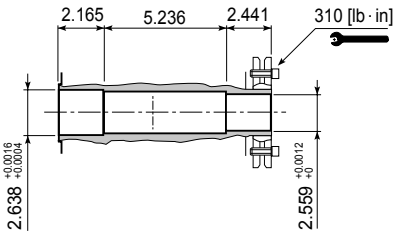


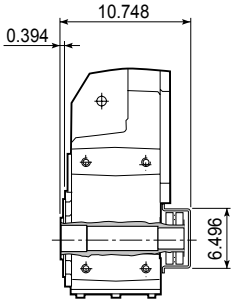






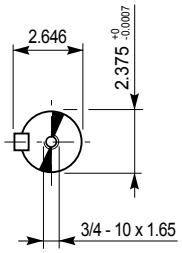
F 60...S

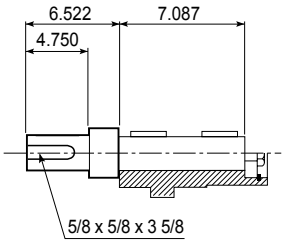


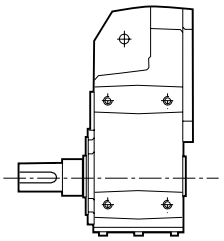


F 60...NR

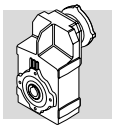
OUTPUT
(Inch Series)







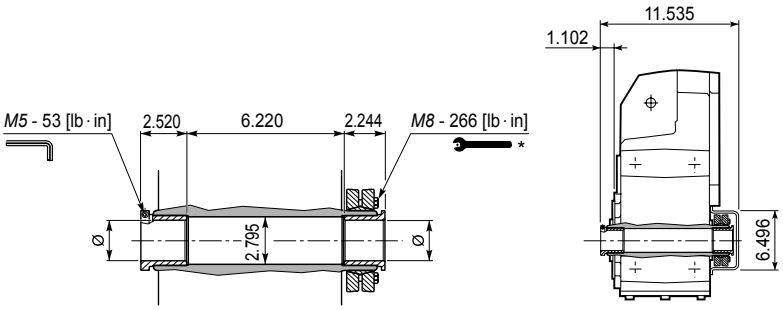
* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.



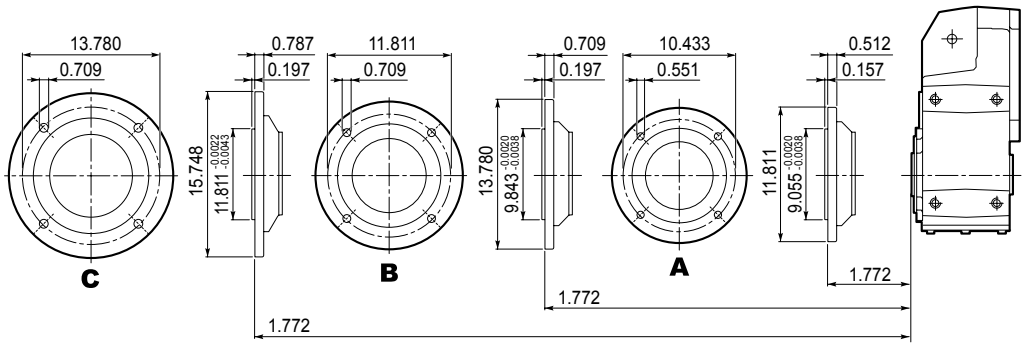
F 60

F 60...NQF

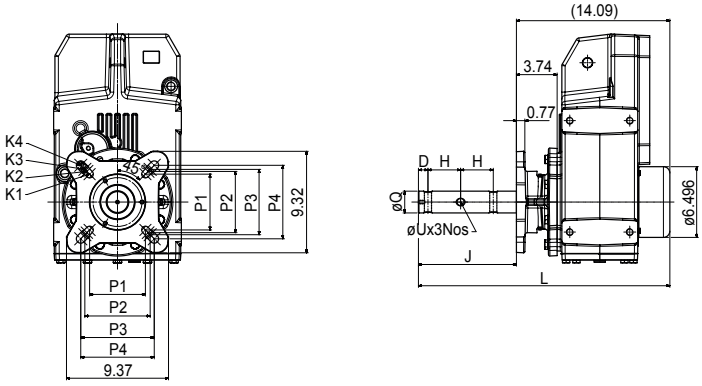
	Ø
NQF2-3/8	2.375
NQF2-7/16	2.438
NQF2-3/4	2.750



F 60...F...



F 60...FSC

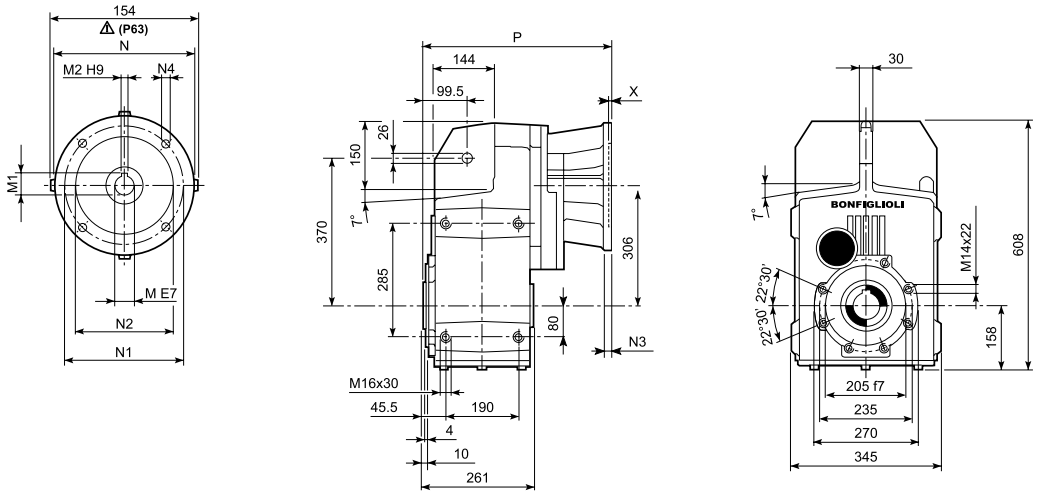


Dimensions are in Inch except when shown in *italic [mm]*

	FSC	øQ	J	L	D	H	øU	øK (BOLT-4Nos)	P	lbs
F 60 3/4	**1**	2	9	23.094	0.875	3	21/32	5/8	5-1/8	57
F 60 3/4	**2**	2-7/16	9.6875	23.782	0.9375	3	21/32	5/8	5-5/8	61
F 60 3/4	**3**	3	9.875	23.969	1	3	25/32	3/4	6	68
F 60 3/4	**4**	3-7/16	13.125	27.219	1.25	4	29/32	3/4	6-3/4	82

* Follow the MOUNTING INSTRUCTIONS supplied with the gearbox.

F 70...P(IEC)

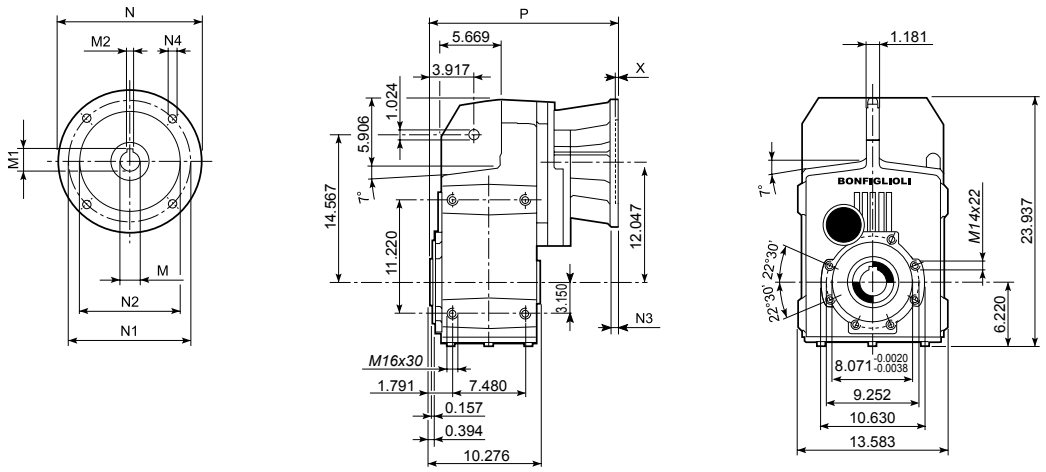


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 70 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	387.5	167
F 70 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	387.5	167
F 70 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	**P132**	38	41.3	10	300	265	230	16	14	5	434	173
F 70 3	**P160**	42	45.3	12	350	300	250	23	18	6	489.5	185
F 70 3	**P180**	48	51.8	14	350	300	250	23	18	6	489.5	185
F 70 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	514.5	206
F 70 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	419	168
F 70 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	419	168
F 70 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	438.5	170
F 70 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	438.5	170
F 70 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	**P132**	38	41.3	10	300	265	230	16	14	5	482	176

Metric output versions available also in combination with NEMA motor adaptor

F 70...N(NEMA Input)

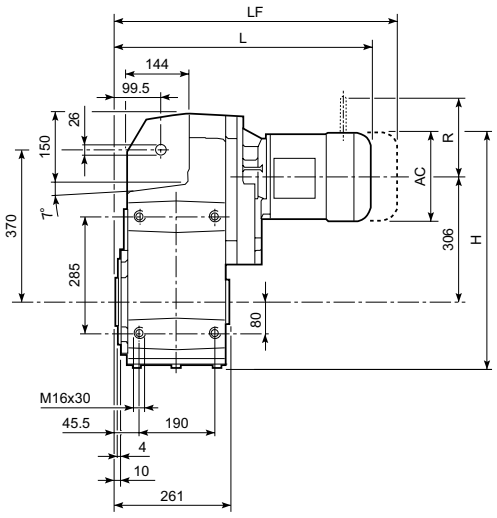


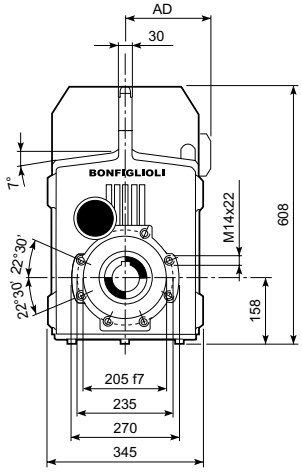
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 70 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	15.453	368
F 70 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	16.024	377
F 70 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	17.264	381
F 70 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	20.256	438
F 70 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	20.453	441
F 70 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	17.283	370
F 70 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	17.283	375
F 70 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	18.031	384
F 70 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	19.154	388

Imperial output versions available also in combination with IEC motor adaptor

F 70...M/ME/MX

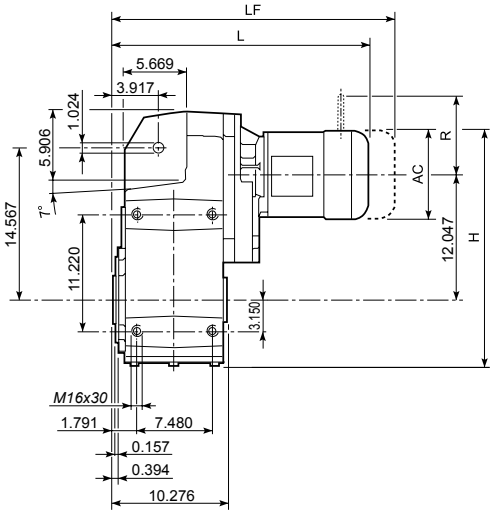


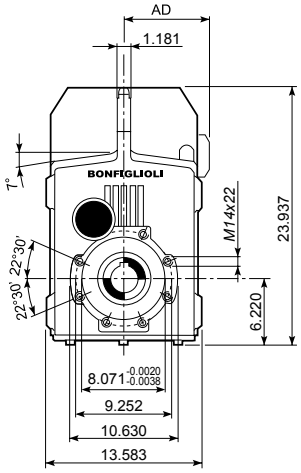


Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 70 3	**S2**	**ME2S**		156	542	552	119	173	622	175.1	129	143	134	143
F 70 3	**S2**	**MX2S**		156	542	596	119	178	668	182.3	129	143	134	143
F 70 3	**S3**	**ME3S**		195	561.5	595	142	178	676	184.4	160	155	160	155
F 70 3	**S3**	**MX3S**		195	561.5	627	142	181	705	189.4	160	155	160	155
F 70 3	**S3**	**ME3L**		195	561.5	627	142	188	703	190.9	160	155	160	155
F 70 3	**S3**	**MX3L**		195	561.5	671	142	194	747	198.4	160	155	160	155
F 70 3	**S4**	**ME4**	**MX4**	258	593	735	193	220	820	228.4	204	210	200	210
F 70 3	**S4**	**ME4LB**	**MX4LA**	258	593	770	193	228	845	242.4	226	210	217	210
F 70 3	**S5**	**ME5S**	**MX5S**	310	619	821.5	245	248	908	302.4	266	245	247	245
F 70 3	**S5**	**ME5L**	**MX5L**	310	619	865.5	245	264	952	313.4	226	245	247	245
F 70 4	**S1**	**M1**		138	533	574	108	173	635	176	103	135	124	108
F 70 4	**S1**	**ME1**		138	533	574	108	173	635	176	103	135	124	135
F 70 4	**S2**	**ME2S**		156	542	603	119	177	673	179.1	129	143	134	143
F 70 4	**S2**	**MX2S**		156	542	647	119	182	719	186.3	129	143	134	143
F 70 4	**S3**	**ME3S**		195	561.5	646	142	181	727	188.4	160	155	160	155
F 70 4	**S3**	**MX3S**		195	561.5	678	142	184	756	193.4	160	155	160	155
F 70 4	**S3**	**ME3L**		195	561.5	678	142	191	754	194.9	160	155	160	155
F 70 4	**S3**	**MX3L**		195	561.5	722	142	197	798	202.4	160	155	160	155
F 70 4	**S4**	**ME4**	**MX4**	258	593	786	193	223	871	232.4	204	210	200	210
F 70 4	**S4**	**ME4LB**	**MX4LA**	258	593	821	193	231	896	246.4	226	210	217	210

F 70...M/ME/MX

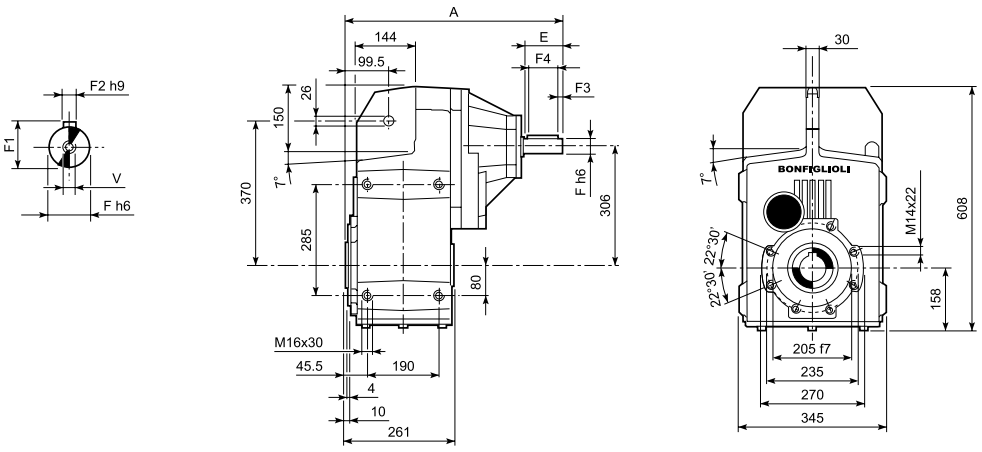




Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 70 3	**S2**	**ME2S**		6.142	21.339	21.732	4.685	381	—	—	—	—	—	—
F 70 3	**S2**	**MX2S**		6.142	21.339	23.465	4.685	392	—	—	—	—	—	—
F 70 3	**S3**	**ME3S**		7.677	22.106	23.425	5.591	392	—	—	—	—	—	—
F 70 3	**S3**	**MX3S**		7.677	22.106	24.685	5.591	399	—	—	—	—	—	—
F 70 3	**S3**	**ME3L**		7.677	22.106	24.685	5.591	414	—	—	—	—	—	—
F 70 3	**S3**	**MX3L**		7.677	22.106	26.417	5.591	428	—	—	—	—	—	—
F 70 3	**S4**	**ME4**	**MX4**	10.157	23.346	28.937	7.598	485	—	—	—	—	—	—
F 70 3	**S4**	**ME4LB**	**MX4LA**	10.157	23.346	30.315	7.598	503	—	—	—	—	—	—
F 70 3	**S5**	**ME5SA**	**MX5S**	12.205	24.370	32.343	9.646	547	—	—	—	—	—	—
F 70 3	**S5**	**ME5LA**	**MX5L**	12.205	24.370	34.075	9.646	582	—	—	—	—	—	—
F 70 4	**S1**	**M1**		5.433	20.984	22.598	4.252	381	25.000	388	4.055	5.315	4.882	4.252
F 70 4	**S2**	**ME2S**		6.142	21.339	23.740	4.685	390	—	—	—	—	—	—
F 70 4	**S2**	**MX2S**		6.142	21.339	25.472	4.685	401	—	—	—	—	—	—
F 70 4	**S3**	**ME3S**		7.677	22.106	25.433	5.591	399	—	—	—	—	—	—
F 70 4	**S3**	**MX3S**		7.677	22.106	26.693	5.591	406	—	—	—	—	—	—
F 70 4	**S3**	**ME3L**		7.677	22.106	26.693	5.591	421	—	—	—	—	—	—
F 70 4	**S3**	**MX3L**		7.677	22.106	28.425	5.591	434	—	—	—	—	—	—
F 70 4	**S4**	**ME4**	**MX4**	10.157	23.346	30.945	7.598	492	—	—	—	—	—	—
F 70 4	**S4**	**ME4LB**	**MX4LA**	10.157	23.346	32.323	7.598	509	—	—	—	—	—	—

F 70...HS

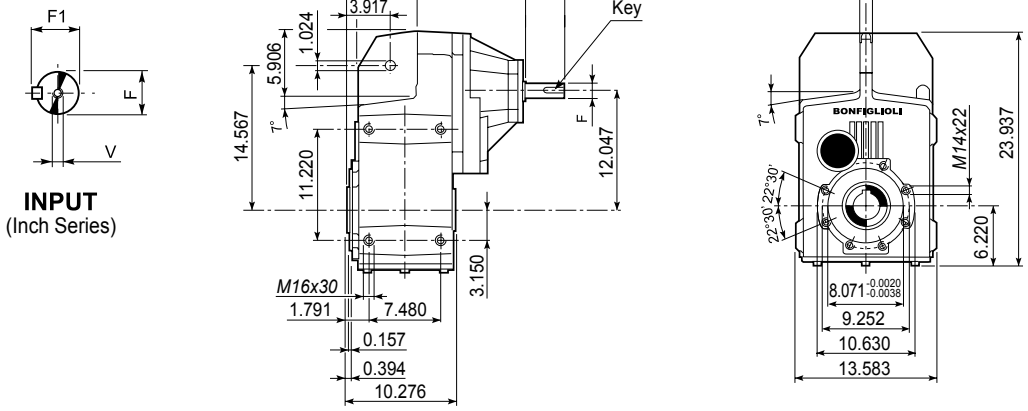


Dimensions are in mm

		A	E	F	F1	F2	F3	F4	V	Kg
F 70 3	**HS**	572	110	42	45	12	10	90	M12x28	186
F 70 4		508.5	50	24	27	8	2.5	45	M8x19	174

Metric output versions available also in combination with NHS input

F 70...NHS



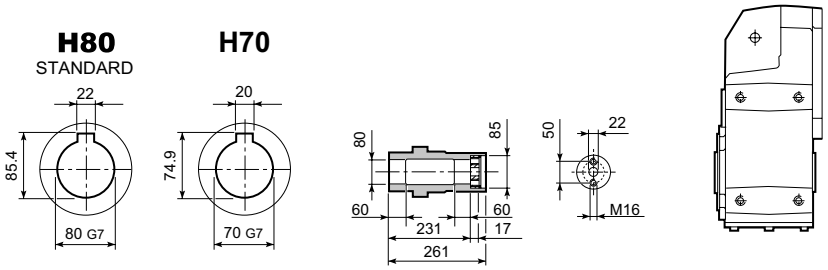
Dimensions are in Inch except when shown in *italic [mm]*

		A	E	F	F1	V	Key	lbs
F 70 3	**NHS**	22.439	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	410
F 70 4		20.020	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	384

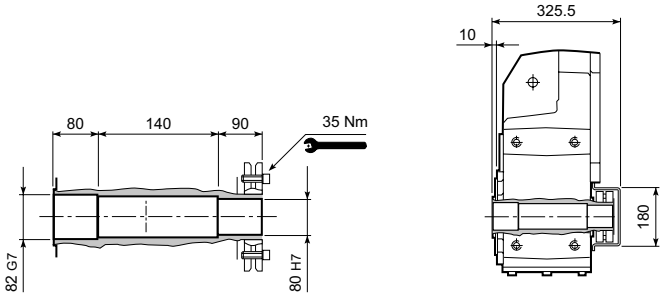
Imperial output versions available also in combination with HS input

F 70

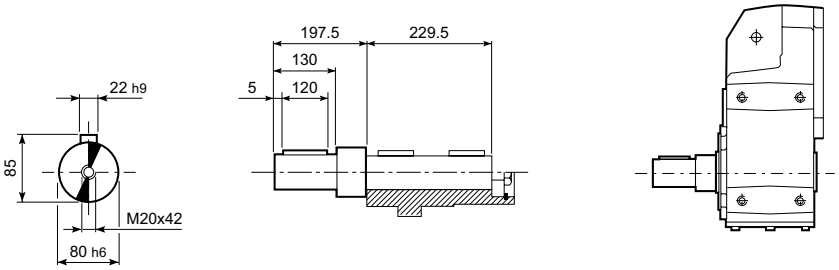
F 70...H



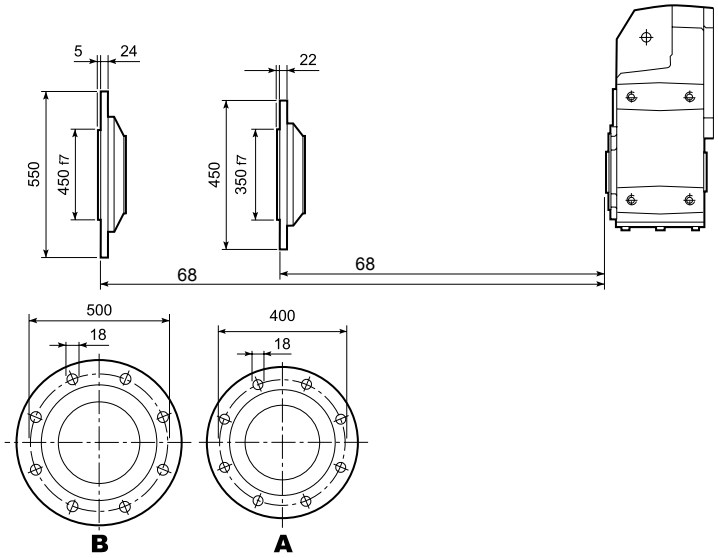
F 70...S

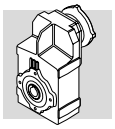


F 70...R



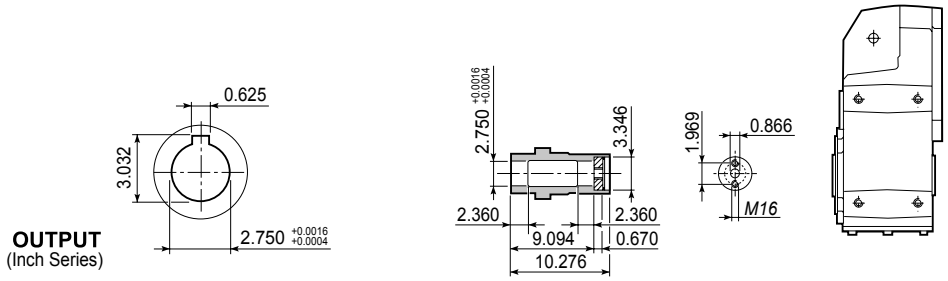
F 70...F...



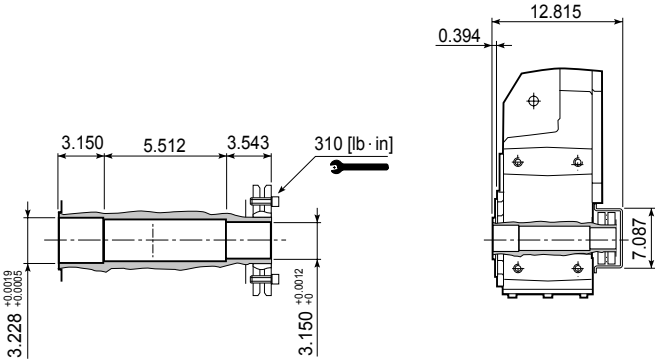


F 70

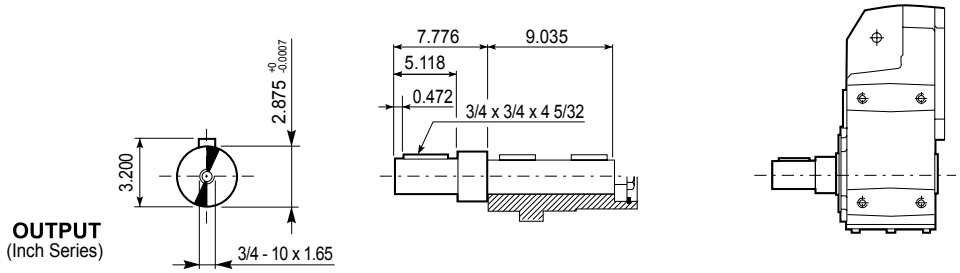
F 70...NH



F 70...S

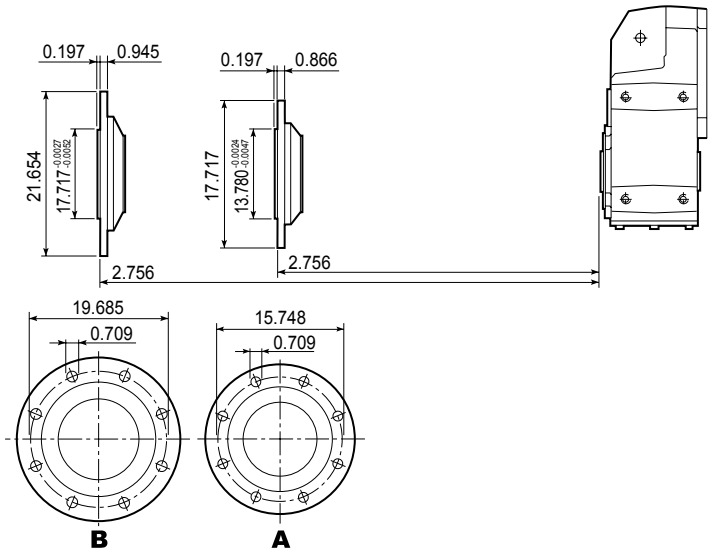


F 70...NR

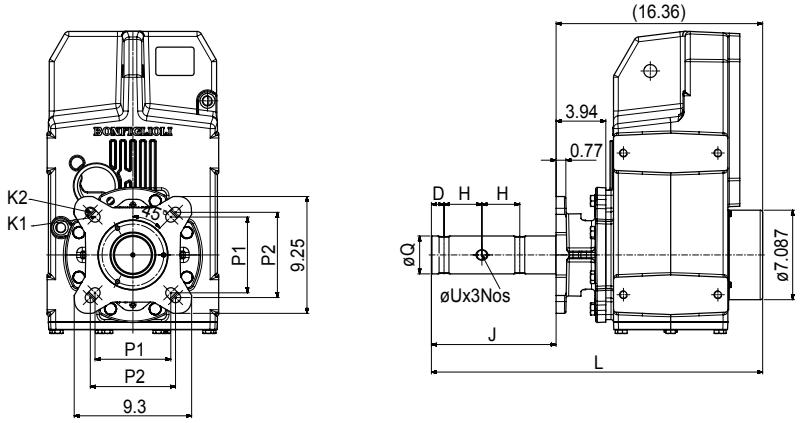


F 70

F 70...F...



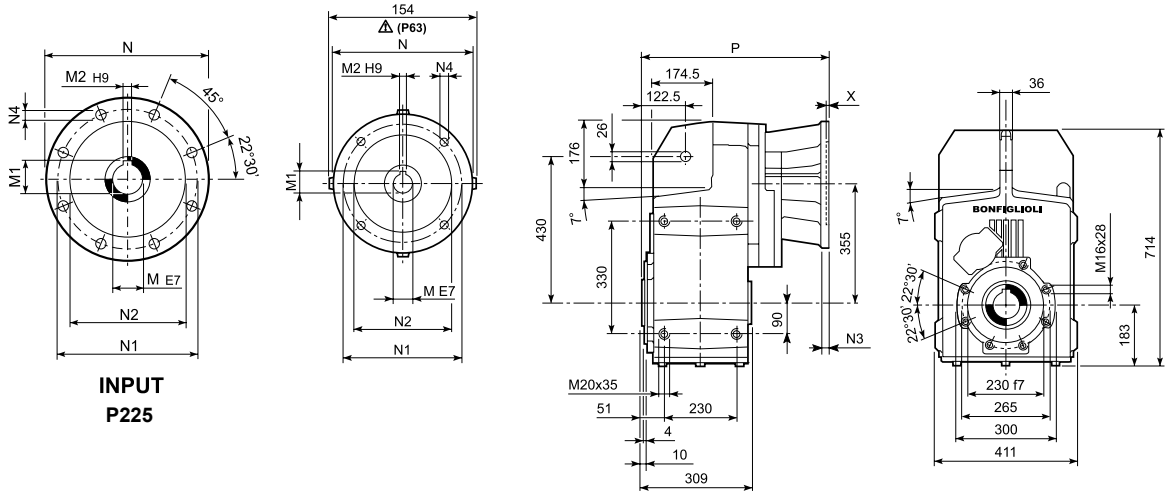
F 70...FSC



Dimensions are in Inch except when shown in *italic [mm]*

	FSC	øQ	J	L	D	H	øU	øK (BOLT-4Nos)	P	lbs
F 70 3/4	**1**	3	9.875	26.233	1	3	25/32	3/4	6	82
F 70 3/4	**2**	3-7/16	13.125	29.483	1.25	4	29/32	3/4	6-3/4	96

F 80...P(IEC)



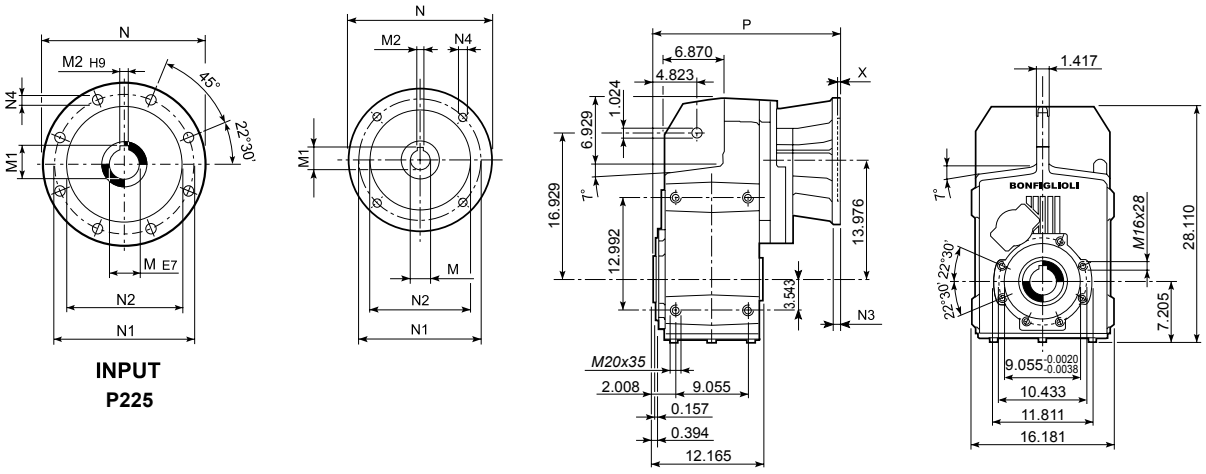
INPUT
P225

Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 80 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	445.5	255
F 80 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	445.5	255
F 80 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	**P132**	38	41.3	10	300	265	230	16	14	5	492	261
F 80 3	**P160**	42	45.3	12	350	300	250	23	18	6	547.5	276
F 80 3	**P180**	48	51.8	14	350	300	250	23	18	6	547.5	276
F 80 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	572.5	298
F 80 3	**P225**	60	64.4	18	450	400	350	25	18	6	618	298
F 80 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	489	258
F 80 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	489	258
F 80 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	508.5	260
F 80 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	508.5	260
F 80 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	**P132**	38	41.3	10	300	265	230	16	14	5	552	266

Metric output versions available also in combination with NEMA motor adaptor

F 80...N(NEMA Input)

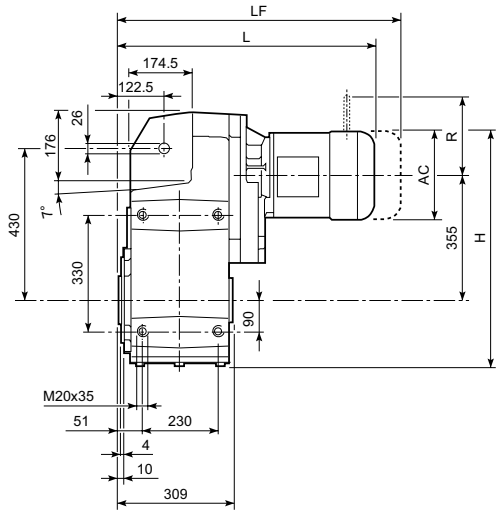


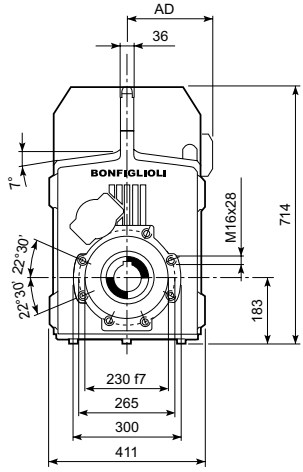
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 80 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	18.307	571
F 80 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	19.547	575
F 80 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	22.539	638
F 80 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	22.736	642
F 80 3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0 +0.0017	17.677	11.000	12.500	—	0.669	0.217	25.591	723
F 80 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	20.039	569
F 80 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	20.039	573
F 80 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	20.787	582
F 80 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	21.909	586

Imperial output versions available also in combination with IEC motor adaptor

F 80...M/ME/MX

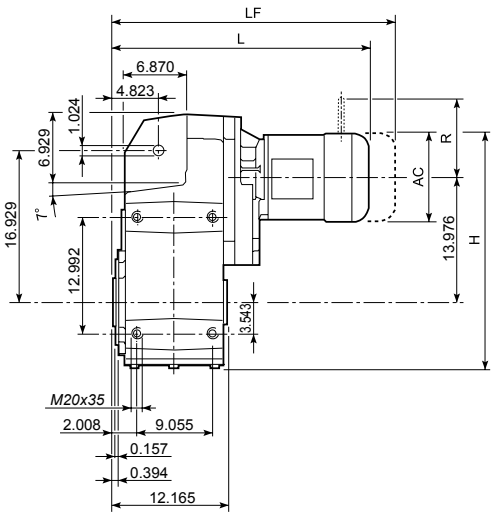


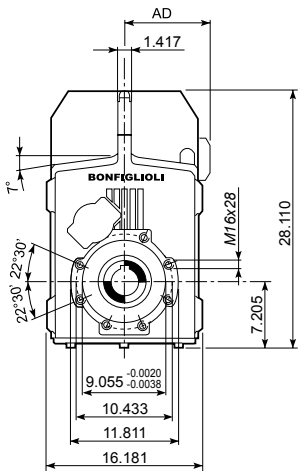


Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 80 3	**S3**	**ME3S**		195	635.5	653	142	266	695	272.5	160	155	160	155
F 80 3	**S3**	**MX3S**		195	635.5	685	142	269	741	277.5	160	155	160	155
F 80 3	**S3**	**ME3L**		195	635.5	685	142	275	749	279	160	155	160	155
F 80 3	**S3**	**MX3L**		195	635.5	729	142	281	778	286.5	160	155	160	155
F 80 3	**S4**	**ME4**	**MX4**	258	667	793	193	307	776	316.5	204	210	200	210
F 80 3	**S4**	**ME4LB**	**MX4LA**	258	667	828	193	315	820	330.5	226	210	217	210
F 80 3	**S5**	**ME5S**	**MX5S**	310	693	879.5	245	335	893	390.5	266	245	247	245
F 80 3	**S5**	**ME5L**	**MX5L**	310	693	923.5	245	351	918	401.5	266	245	247	245
F 80 4	**S1**	**M1**		138	607	644	108	262	705	265	103	135	124	108
F 80 4	**S1**	**ME1**		138	607	644	108	262	705	265	103	135	124	135
F 80 4	**S2**	**ME2S**		156	616	673	119	266	758	263.2	129	143	134	143
F 80 4	**S2**	**MX2S**		156	616	717	119	271	804	270.4	129	143	134	143
F 80 4	**S3**	**ME3S**		195	635.5	716	142	271	812	272.5	160	155	160	155
F 80 4	**S3**	**MX3S**		195	635.5	748	142	274	841	277.5	160	155	160	155
F 80 4	**S3**	**ME3L**		195	635.5	748	142	280	839	279	160	155	160	155
F 80 4	**S3**	**MX3L**		195	635.5	792	142	286	883	286.5	160	155	160	155
F 80 4	**S4**	**ME4**	**MX4**	258	667	856	193	312	956	316.5	204	210	200	210
F 80 4	**S4**	**ME4LB**	**MX4LA**	258	667	891	193	320	981	330.5	226	210	217	210

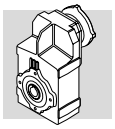
F 80...M/ME/MX



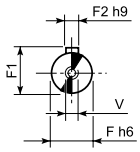


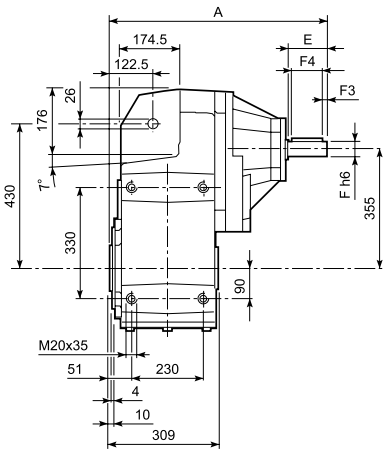
Dimensions are in Inch except when shown in *italic [mm]*

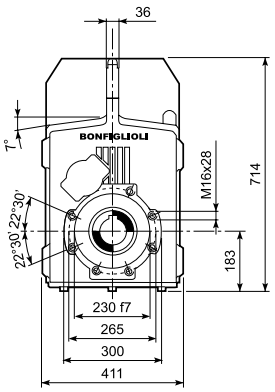
									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 80 3	**S3**	**ME3S**		7.677	25.020	25.709	5.591	586	—	—	—	—	—	—
F 80 3	**S3**	**MX3S**		7.677	25.020	26.969	5.591	593	—	—	—	—	—	—
F 80 3	**S3**	**ME3L**		7.677	25.020	26.969	5.591	606	—	—	—	—	—	—
F 80 3	**S3**	**MX3L**		7.677	25.020	28.701	5.591	619	—	—	—	—	—	—
F 80 3	**S4**	**ME4**	**MX4**	10.157	26.260	31.220	7.598	677	—	—	—	—	—	—
F 80 3	**S4**	**ME4LB**	**MX4LA**	10.157	26.260	32.598	7.598	694	—	—	—	—	—	—
F 80 3	**S5**	**ME5S**	**MX5S**	12.205	27.283	34.626	9.646	739	—	—	—	—	—	—
F 80 3	**S5**	**ME5L**	**MX5L**	12.205	27.283	36.358	9.646	774	—	—	—	—	—	—
F 80 4	**S1**	**M1**		5.433	23.898	25.354	4.252	578	27.756	584	4.055	5.315	4.882	4.252
F 80 4	**S2**	**M2S**		6.142	24.252	26.496	4.685	586	29.252	593	5.079	5.748	5.276	4.685
F 80 4	**S2**	**ME2S**		6.142	24.252	26.496	4.685	586	—	—	—	—	—	—
F 80 4	**S2**	**MX2S**		6.142	24.252	26.496	4.685	586	—	—	—	—	—	—
F 80 4	**S3**	**ME3S**		7.677	25.020	28.189	5.591	597	—	—	—	—	—	—
F 80 4	**S3**	**MX3S**		7.677	25.020	29.449	5.591	604	—	—	—	—	—	—
F 80 4	**S3**	**ME3L**		7.677	25.020	29.449	5.591	617	—	—	—	—	—	—
F 80 4	**S3**	**MX3L**		7.677	25.020	31.181	5.591	631	—	—	—	—	—	—
F 80 4	**S4**	**ME4**	**MX4**	10.157	26.260	33.701	7.598	688	—	—	—	—	—	—
F 80 4	**S4**	**ME4LB**	**MX4LA**	10.157	26.260	35.079	7.598	705	—	—	—	—	—	—



F 80...HS





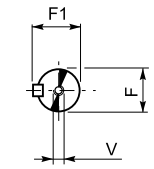


Dimensions are in mm

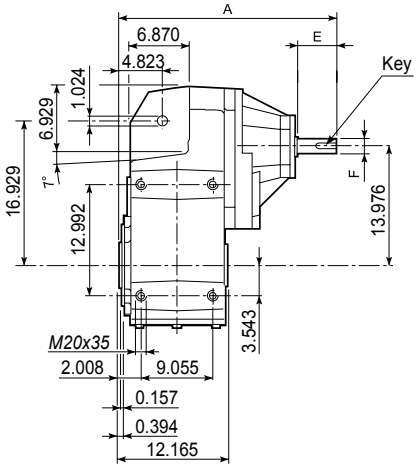
		A	E	F	F1	F2	F3	F4	V	Kg
F 80 3	**HS**	630	110	42	45	12	10	90	M12x28	273
F 80 4		575.5	50	24	27	8	2.5	45	M8x19	263

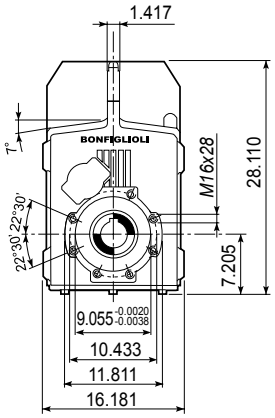
Metric output versions available also in combination with NHS input

F 80...NHS



INPUT
(Inch Series)





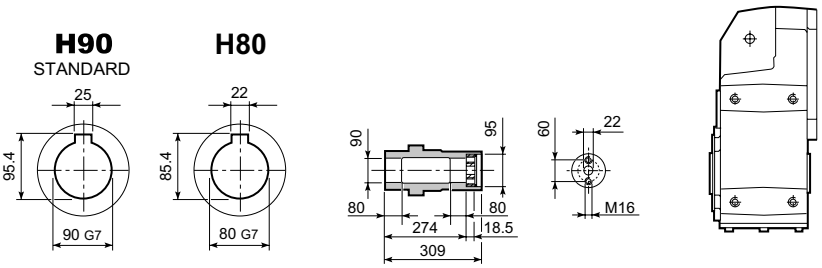
Dimensions are in Inch except when shown in *italic [mm]*

		A	E	F	F1	V	Key	lbs
F 80 3	**NHS**	24.722	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	602
F 80 4		22.657	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	580

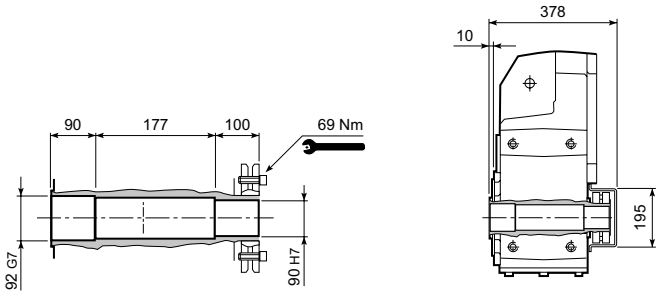
Imperial output versions available also in combination with HS input

F 80

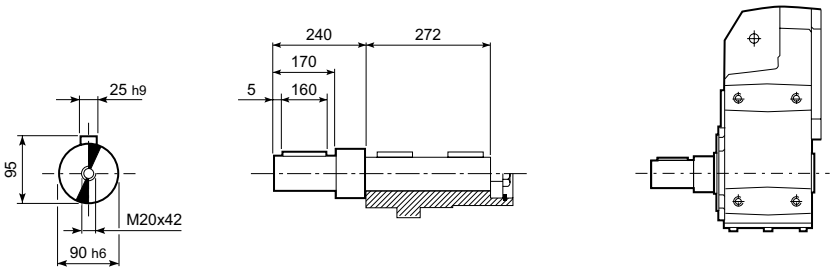
F 80...H



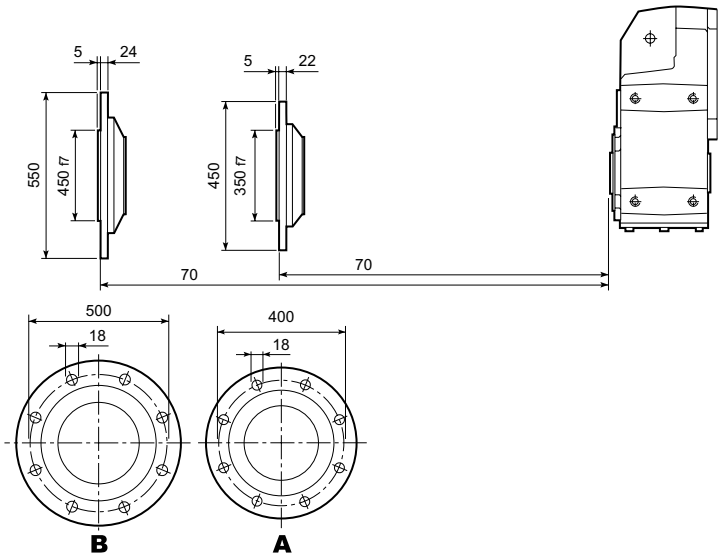
F 80...S



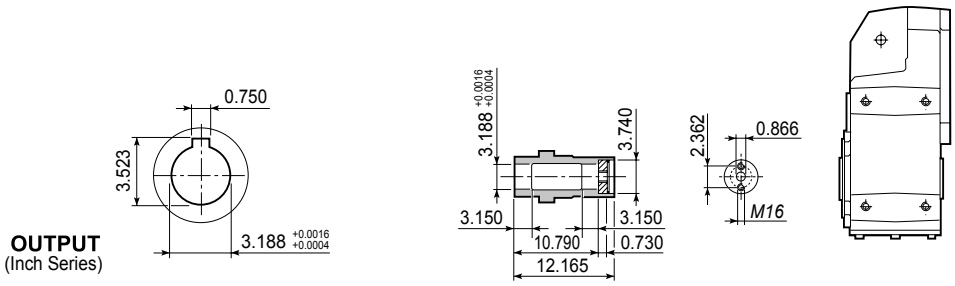
F 80...R



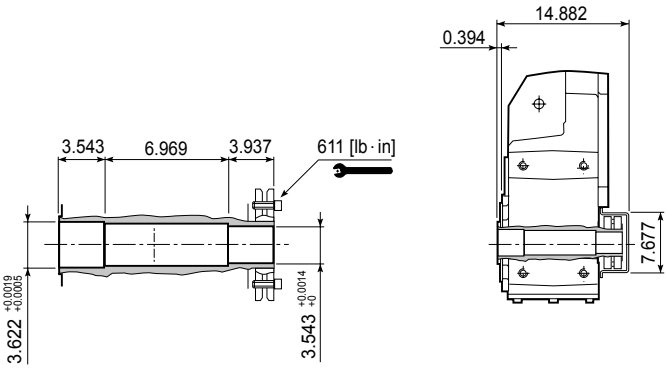
F 80...F...



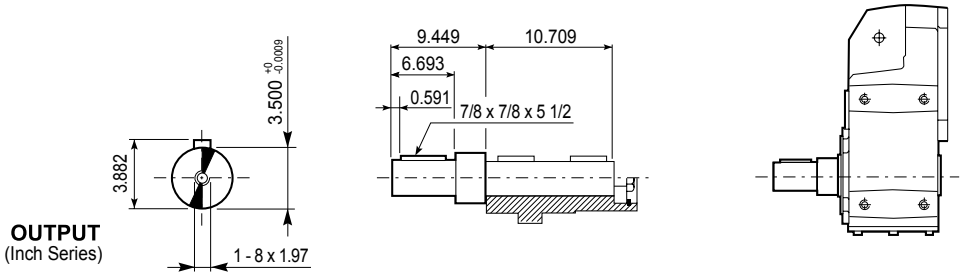
F 80...NH



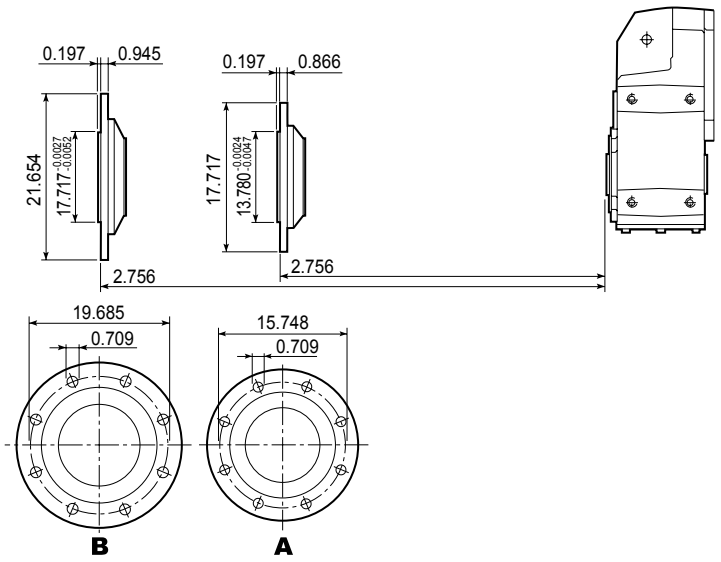
F 80...S



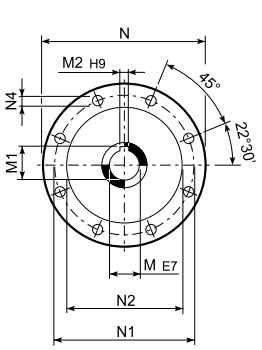
F 80...NR



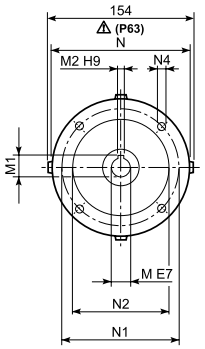
F 80...F...

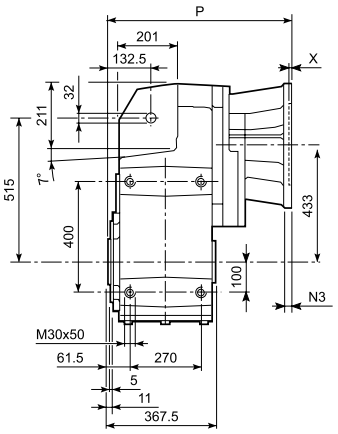


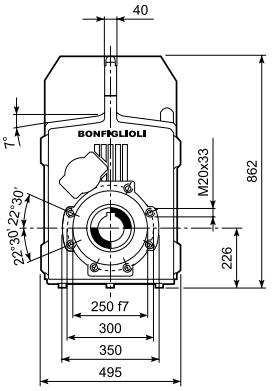
F 90...P(IEC)



INPUT
P225...P250





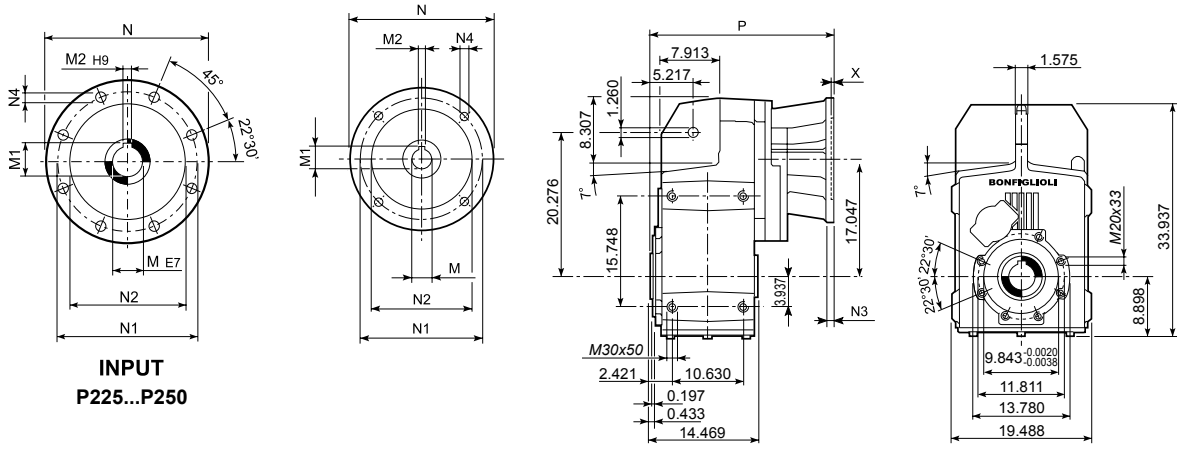


Dimensions are in mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 90 3	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P132**	38	41.3	10	300	265	230	16	14	5	567	449
F 90 3	**P160**	42	45.3	12	350	300	250	23	18	6	622.5	463
F 90 3	**P180**	48	51.8	14	350	300	250	23	18	6	622.5	463
F 90 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	647.5	485
F 90 3	**P225**	60	64.4	18	450	400	350	30	18	6	693	485
F 90 3	**P250**	65	69.4	18	550	500	450	30	18	6	723	507
F 90 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	584	448
F 90 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	584	448
F 90 4	**P80**	19	21.8	6	200	165	130	—	M10x14.5	4	603.5	450
F 90 4	**P90**	24	27.3	8	200	165	130	—	M10x14.5	4	603.5	450
F 90 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	**P132**	38	41.3	10	300	265	230	16	14	5	650	455
F 90 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	700.5	461
F 90 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	700.5	461

Metric output versions available also in combination with NEMA motor adaptor

F 90...N(NEMA Input)

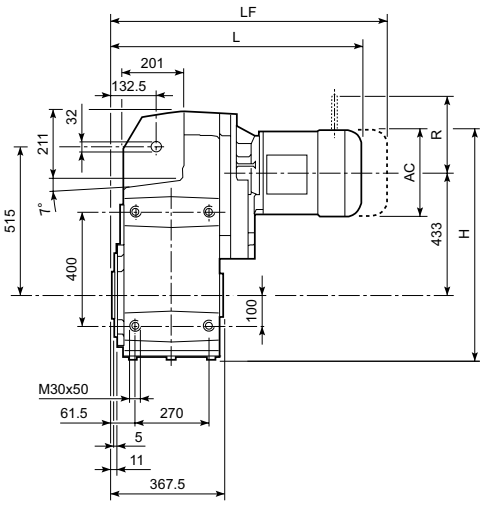


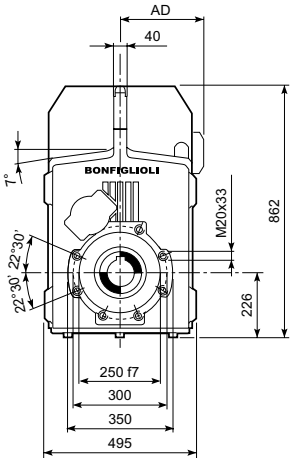
Dimensions are in Inch except when shown in *italic [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 90 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	21.260	983
F 90 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	22.500	990
F 90 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	25.492	1050
F 90 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	25.689	1054
F 90 3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0 +0.0017	17.677	11.000	12.500	—	0.669	0.217	28.543	1135
F 90 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	23.780	988
F 90 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	23.780	992
F 90 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	24.528	1001
F 90 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	25.768	1003
F 90 4	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	28.563	1046
F 90 4	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	28.760	1050

Imperial output versions available also in combination with IEC motor adaptor

F 90...M/ME/MX

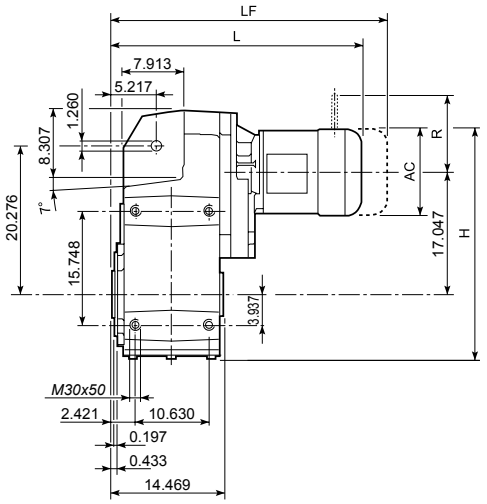


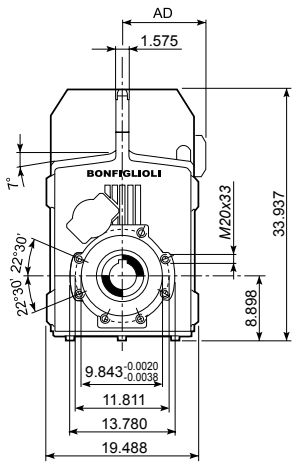


Dimensions are in mm

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 90 3	**S3**	**ME3S**		195	756	728	142	453	824	459.5	160	155	160	155
F 90 3	**S3**	**MX3S**		195	756	760	142	456	853	464.5	160	155	160	155
F 90 3	**S3**	**ME3L**		195	756	760	142	462	851	466	160	155	160	155
F 90 3	**S3**	**MX3L**		195	756	804	142	468	895	473.5	160	155	160	155
F 90 3	**S4**	**ME4**	**MX4**	258	787.5	868	193	494	968	503.5	204	210	200	210
F 90 3	**S4**	**ME4LB**	**MX4LA**	258	787.5	894	193	504	993	517.5	226	210	217	210
F 90 3	**S5**	**ME5S**	**MX5S**	310	813.5	998.5	245	538	1056	577.5	266	245	247	245
F 90 3	**S5**	**ME5L**	**MX5L**	310	813.5	998.5	245	549	1100	588.5	266	245	247	245
F 90 4	**S2**	**ME2S**		156	736.5	768	119	456	853	457.2	129	143	134	143
F 90 4	**S2**	**MX2S**		156	736.5	812	119	461	899	464.4	129	143	134	143
F 90 4	**S3**	**ME3S**		195	756	811	142	460	907	466.5	160	155	160	155
F 90 4	**S3**	**MX3S**		195	756	843	142	463	936	471.5	160	155	160	155
F 90 4	**S3**	**ME3L**		195	756	843	142	470	934	473	160	155	160	155
F 90 4	**S3**	**MX3L**		195	756	887	142	476	978	480.5	160	155	160	155
F 90 4	**S4**	**ME4**	**MX4**	258	787.5	951	193	502	1051	510.5	204	210	200	210
F 90 4	**S4**	**ME4LB**	**MX4LA**	258	787.5	986	193	510	1076	524.5	226	210	217	210

F 90...M/ME/MX

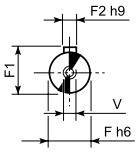


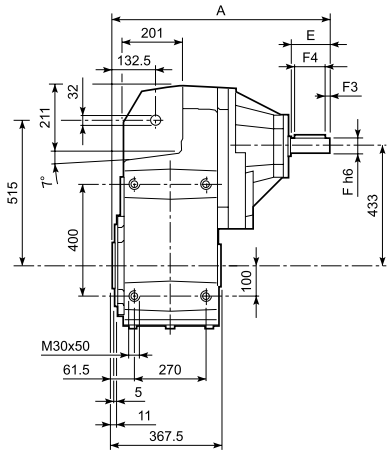


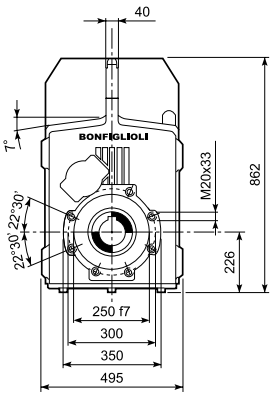
Dimensions are in Inch except when shown in *italic [mm]*

									M...FD M...FA		M...FD		M...FA	
				AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 90 3	**S3**	**ME3S**		7.677	29.764	28.661	5.591	999	—	—	—	—	—	—
F 90 3	**S3**	**MX3S**		7.677	29.764	29.921	5.591	1005	—	—	—	—	—	—
F 90 3	**S3**	**ME3L**		7.677	29.764	29.921	5.591	1019	—	—	—	—	—	—
F 90 3	**S3**	**MX3L**		7.677	29.764	31.654	5.591	1032	—	—	—	—	—	—
F 90 3	**S4**	**ME4**	**MX4**	10.157	31.004	34.173	7.598	1089	—	—	—	—	—	—
F 90 3	**S5**	**ME5L**	**MX5L**	12.205	32.028	39.311	9.646	1186	—	—	—	—	—	—
F 90 4	**S2**	**M2S**		6.142	28.996	30.236	4.685	1005	32.992	1014	5.079	5.748	5.276	4.685
F 90 4	**S2**	**ME2S**		6.142	28.996	30.236	4.685	1005	—	—	—	—	—	—
F 90 4	**S2**	**MX2S**		6.142	28.996	31.969	4.685	1016	—	—	—	—	—	—
F 90 4	**S3**	**ME3S**		7.677	29.764	31.929	5.591	1014	—	—	—	—	—	—
F 90 4	**S3**	**MX3S**		7.677	29.764	33.189	5.591	1021	—	—	—	—	—	—
F 90 4	**S3**	**ME3L**		7.677	29.764	33.189	5.591	1036	—	—	—	—	—	—
F 90 4	**S3**	**MX3L**		7.677	29.764	34.921	5.591	1049	—	—	—	—	—	—
F 90 4	**S4**	**ME4**	**MX4**	10.157	31.004	37.441	7.598	1107	—	—	—	—	—	—
F 90 4	**S4**	**ME4LB**	**MX4LA**	10.157	31.004	38.819	7.598	1124	—	—	—	—	—	—

F 90...HS





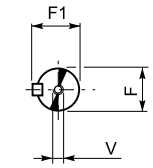


Dimensions are in mm

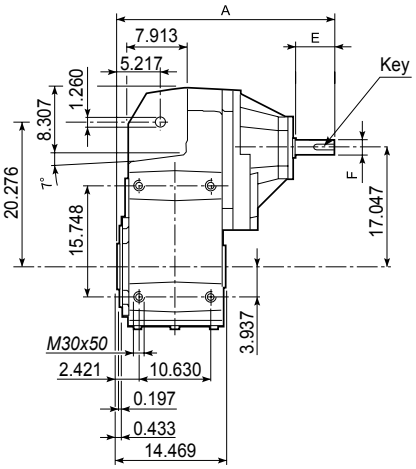
		A	E	F	F1	F2	F3	F4	V	Kg
F 90 3	**HS**	806.5	140	60	64	18	10	120	M16x36	485
F 90 4		673.5	50	24	27	8	2.5	45	M8x19	452

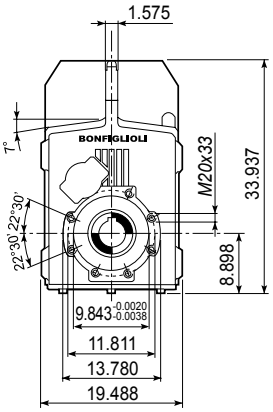
Metric output versions available also in combination with NHS input

F 90...NHS



INPUT
(Inch Series)





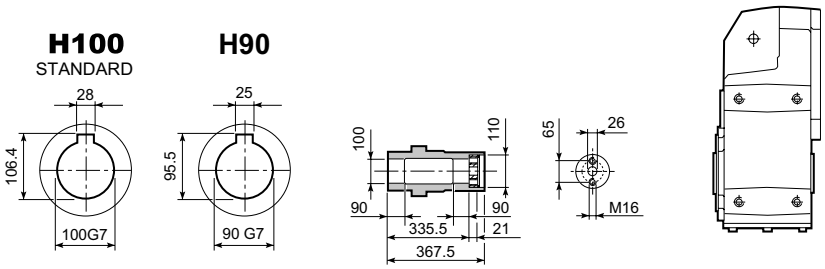
Dimensions are in Inch except when shown in *italic [mm]*

		A	E	F	F1	V	Key	lbs
F 90 3	**NHS**	31.240	5	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	1069
F 90 4		26.516	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	996

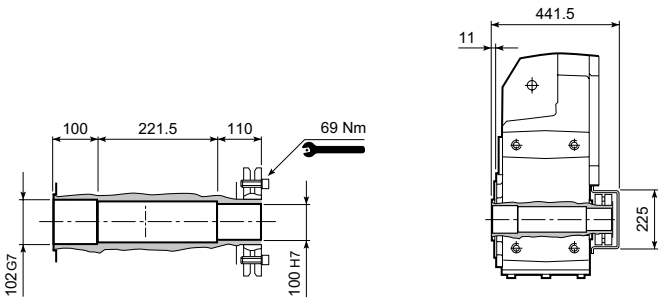
Imperial output versions available also in combination with HS input

F 90

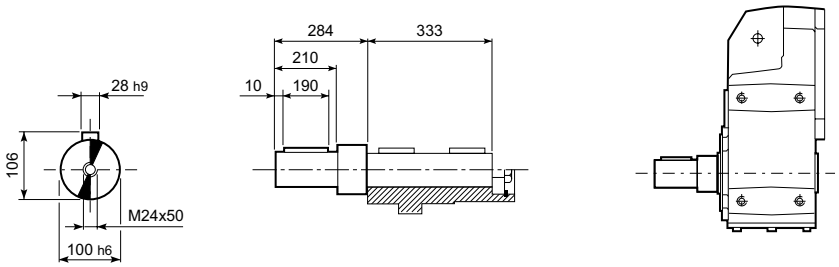
F 90...H



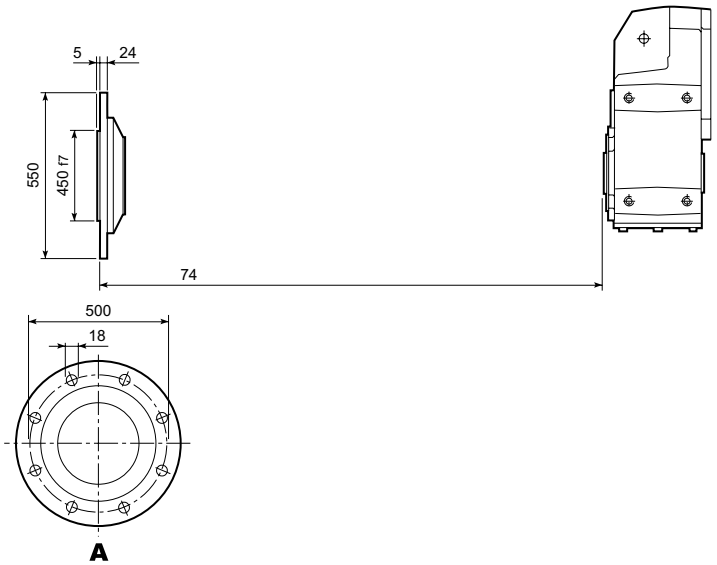
F 90...S



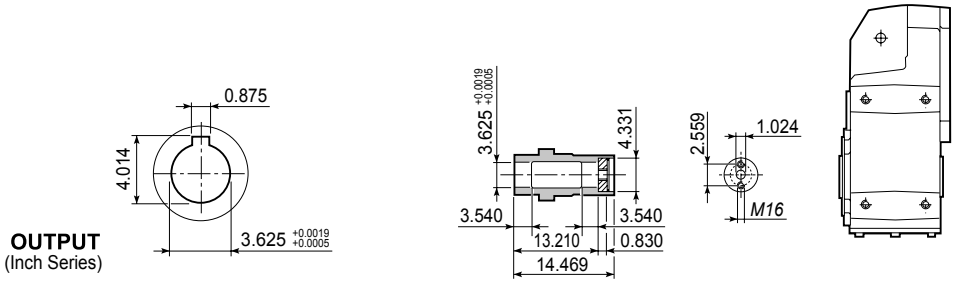
F 90...R



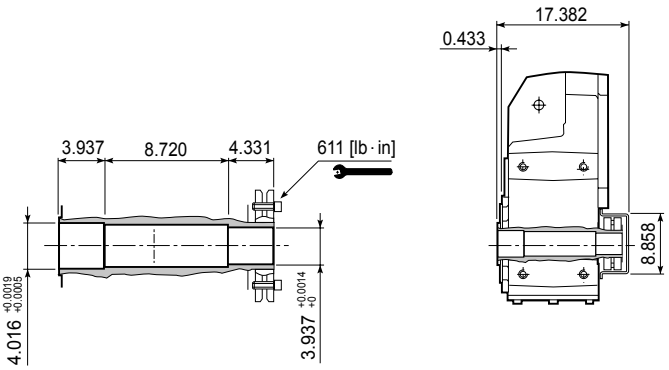
F 90...F...



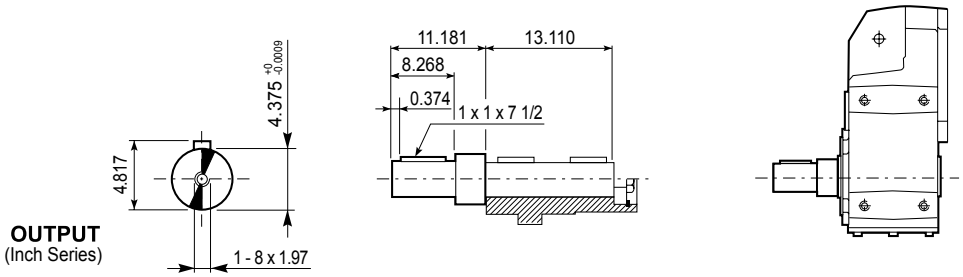
F 90...NH



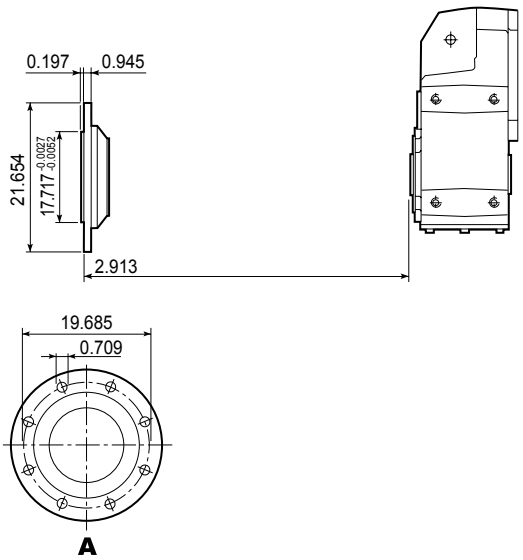
F 90...S



F 90...NR



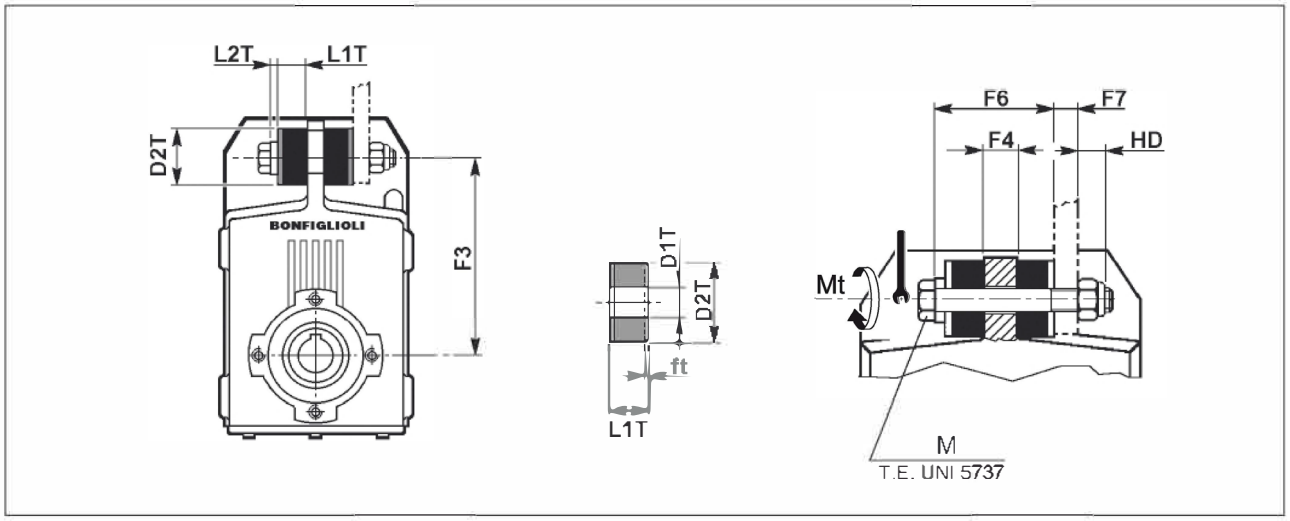
F 90...F...



59 ACCESSORIES

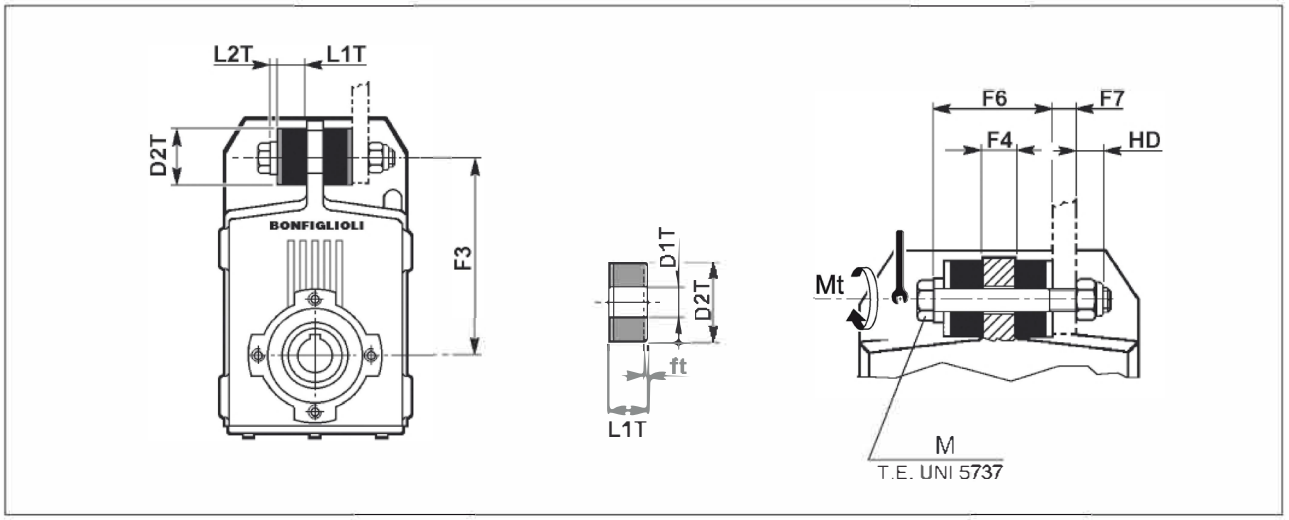
Anti-vibration kit

The gearboxes of the F series are supplied with an anti-vibration kit at customer request.
The kit includes all components required for shaft mounting (torque arm is out of scope). Dimensions are shown in the following table.



Dimensions are in mm

	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [Nm]	ft
F 10	140	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 20	160	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 25	162	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 31	170	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 41	218	16	61	24	14.8	20	5	12.5	40	M12x100	20	2.3
F 51	278	20	90	47	23	30	10	21	60	M20x160	50	3.0
F 60	325	26	96	41	23	30	10	21	60	M20x160	50	4.0
F 70	370	30	122	50	28	40	12	25	80	M24x200	100	4.0
F 80	430	36	128	44	28	40	12	25	80	M24x200	100	6.0
F 90	515	40	175	40	33.2	60	15	32	100	M30x260	200	9.0

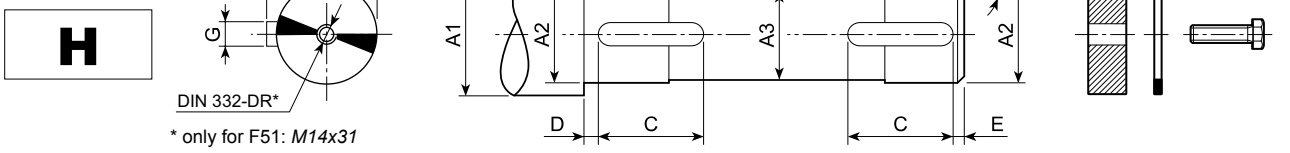


Dimensions are in Inch except when shown in *italic [mm]*

	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [lb • in]	ft
F 10	5.512	0.787	2.165	0.394	0.484	0.591	0.197	0.433	1.181	M10x80	89	0.059
F 20	6.299	0.787	2.165	0.394	0.484	0.591	0.197	0.433	1.181	M10x80	89	0.059
F 25	6.378	0.787	2.559	0.787	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.059
F 31	6.693	0.787	2.559	0.787	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.059
F 41	8.583	0.630	2.402	0.945	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.091
F 51	10.945	0.787	3.543	1.850	0.906	1.181	0.394	0.827	2.362	M20x160	443	0.118
F 60	12.795	1.024	3.780	1.614	0.906	1.181	0.394	0.827	2.362	M20x160	443	0.157
F 70	14.567	1.181	4.803	1.969	1.102	1.575	0.472	0.984	3.150	M24x200	886	0.157
F 80	16.929	1.417	5.039	1.732	1.102	1.575	0.472	0.984	3.150	M24x200	886	0.236
F 90	20.276	1.575	6.890	1.575	1.307	2.362	0.591	1.260	3.937	M30x260	1771	0.354

60 CUSTOMER' SHAFT

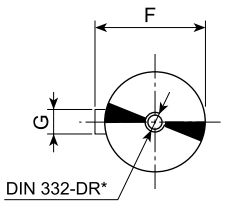
Make the driven shaft to be coupled to the gear unit's output shaft from a good quality steel, respecting the dimensions given in the table.
A device such as that illustrated below should also be installed to secure the shaft axially. Take care to verify and dimension the various components to suit the needs of the application.



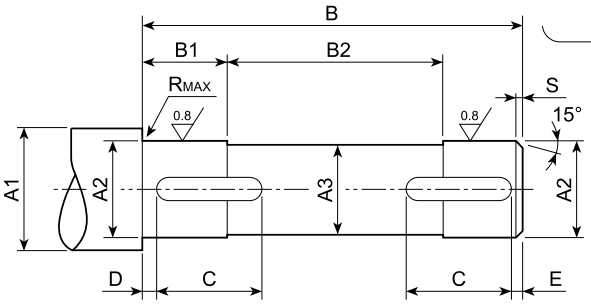
Dimensions are in mm

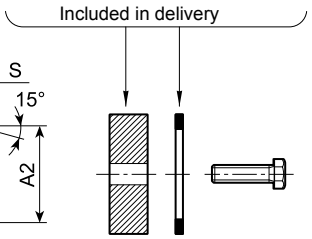
	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	UNI 6604	UNI 5739
F 10	≥ 35	30 h7	29	87.5	15.5	56.5	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	M8x25
	≥ 30	25 h7	24	87.5	15.5	56.5	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	
F 20	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A	M8x30
	≥ 35	30 h7	29	99	18	63	22	2	2	33	8 h9	0.5	1.5	8x7x22 A	
F 25	≥ 47	40 h7	39	104	23	58	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	23	58	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 31	≥ 47	40 h7	39	104	28	48	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	28	48	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 41	≥ 52	45 h7	44	118	27.5	63	45	2.5	2.5	48.5	14 h9	1	2.0	14x9x45 A	M10x30
	≥ 47	40 h7	39	118	27.5	63	45	2.5	2.5	43	12 h9	1	2.0	12x8x45 A	
F 51	≥ 63	55 h7	54	139	33	73	50	2.5	2.5	59	16 h9	1	2.0	16x10x50 A	M14x45
	≥ 57	50 h7	49	139	33	73	50	2.5	2.5	53.5	14 h9	1	2.0	14x9x50 A	
F 60	≥ 78	70 h7	69	180	38	104	70	2.5	2.5	74.5	20 h9	1	2.0	20x12x70 A	M16x45
	≥ 68	60 h7	59	180	38	104	70	2.5	2.5	64	18 h9	1	2.0	18x11x70 A	
F 70	≥ 89	80 h7	79	229	58	113	75	3	3	85	22 h9	2.5	2.5	22x14x75 A	M20x55
	≥ 78	70 h7	69	229	58	113	75	3	3	74.5	20 h9	2.5	2.5	20x12x75 A	
F 80	≥ 99	90 h7	89	272	78	116	100	3	3	95	25 h9	2.5	2.5	25x14x100 A	M20x55
	v 89	80 h7	79	272	78	116	100	3	3	85	22 h9	2.5	2.5	22x14x100 A	
F 90	≥ 111	100 h7	99	333	87.5	158	110	3	3	106	28 h9	2.5	2.5	28x16x110 A	M24x65
	≥ 99	90 h7	89	333	87.5	158	110	3	3	95	25 h9	2.5	2.5	25x14x110 A	

NH



* only for F51: *M14x31*

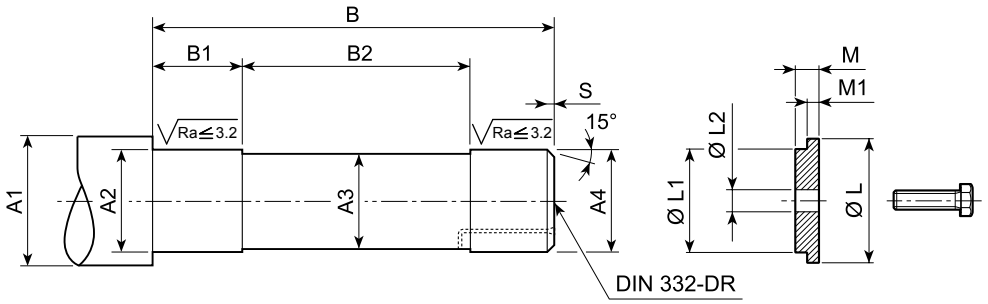




Dimensions are in Inch except when shown in *italic [mm]*

	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	Key	UNI 5739
F 10	≥ 1.201	1.000 $^{+0}_{-0.0008}$	0.965	3.445	0.610	2.224	0.875	0.079	0.079	1.109	0.250 $^{+0}_{-0.0014}$	0.0196	0.059	1/4 x 1/4 x 7/8	*M8x25*
F 20	≥ 1.457	1.250 $^{+0}_{-0.0010}$	1.201	3.898	0.709	2.480	1.000	0.079	0.079	1.362	0.250 $^{+0}_{-0.0014}$	0.0196	0.059	1/4 x 1/4 x 1	*M8x30*
F 25	≥ 1.654	1.375 $^{+0}_{-0.0010}$	1.339	4.094	0.906	2.283	1.250	0.079	0.079	1.513	0.313 $^{+0}_{-0.0014}$	0.0196	0.059	5/16 x 5/16 x 1 1/4	*M8x30*
F 31	≥ 1.654	1.375 $^{+0}_{-0.0010}$	1.339	4.094	1.102	1.890	1.250	0.079	0.079	1.513	0.313 $^{+0}_{-0.0014}$	0.0196	0.059	5/16 x 5/16 x 1 1/4	*M8x30*
F 41	≥ 1.772	1.500 $^{+0}_{-0.0010}$	1.457	4.646	1.102	1.890	2.000	0.079	0.079	1.664	0.375 $^{+0}_{-0.0014}$	0.039	0.079	3/8 x 3/8 x 2	*M10x30*
F 51	≥ 2.283	2.000 $^{+0}_{-0.0012}$	1.969	5.472	1.299	2.874	2.000	0.098	0.098	2.218	0.500 $^{+0}_{-0.0017}$	0.039	0.079	1/2 x 1/2 x 2 1/2	*M14x45*
F 60	≥ 2.677	2.375 $^{+0}_{-0.0012}$	2.323	7.087	1.496	4.094	3.000	0.098	0.098	2.646	0.625 $^{+0}_{-0.0017}$	0.039	0.079	5/8 x 5/8 x 3	*M16x45*
F 70	≥ 3.071	2.750 $^{+0}_{-0.0012}$	2.717	9.016	2.283	4.449	3.000	0.295	0.118	3.027	0.625 $^{+0}_{-0.0017}$	0.098	0.098	5/8 x 5/8 x 3	*M20x55*
F 80	≥ 3.543	3.188 $^{+0}_{-0.0014}$	3.150	10.709	3.071	4.567	4.156	0.295	0.118	3.536	0.750 $^{+0}_{-0.0020}$	0.098	0.098	3/4 x 3/4 x 4 5/32	*M20x55*
F 90	≥ 3.543	3.625 $^{+0}_{-0.0014}$	3.583	13.110	3.445	6.220	5.500	0.295	0.118	4.009	0.875 $^{+0}_{-0.0020}$	0.098	0.098	7/8 x 7/8 x 5 1/2	*M24x65*

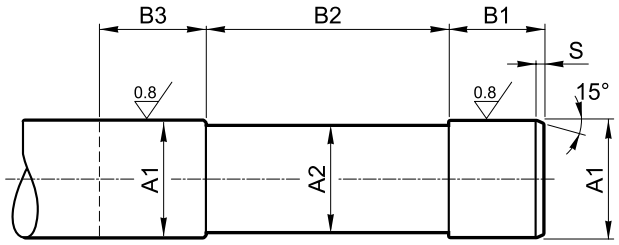
S



Dimensions are in mm

	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
F 10	≥ 36	27 h7	24	25 h6	138	34	70	0.5	1.5	29.5	25 d9	9	7	5.5	M8x25
F 20	≥ 42	32 h7	29	30 h6	160	38	84	0.5	1.5	35.5	30 d9	9	7	5.5	M8x25
F 25	≥ 42	32 h7	30	31 h6	172	38	96	0.5	1.5	35.5	31 d9	9	7	5.5	M8x25
F 31	≥ 50	38 h7	35	36 h6	155	40	73	1	2	43	36 d9	9	7	5.5	M8x25
F 41	≥ 58	44 h7	41	42 h6	177	46.5	82	1	2	49	42 d9	11	8.5	7	M10x30
F 51	≥ 68	54 h7	51	52 g6	201	48	91	1	2	61	52 d9	18	9	7.5	M16x45
F 60	≥ 84	67 h7	64	65 g6	248	53	133	1.5	2	80	65 d9	18	9	7.5	M16x45
F 70	≥ 104	82 h7	79	80 g6	308	78	140	2.5	2.5	95	80 d9	22	13.5	12	M20x55
F 80	≥ 114	92 h7	89	90 g6	365	88	177	2.5	2.5	105	90 d9	22	13.5	12	M20x55
F 90	≥ 126	102 h7	99	100 g6	429.5	98	221.5	2.5	2.5	120	100 d9	26	20	18.5	M24x70

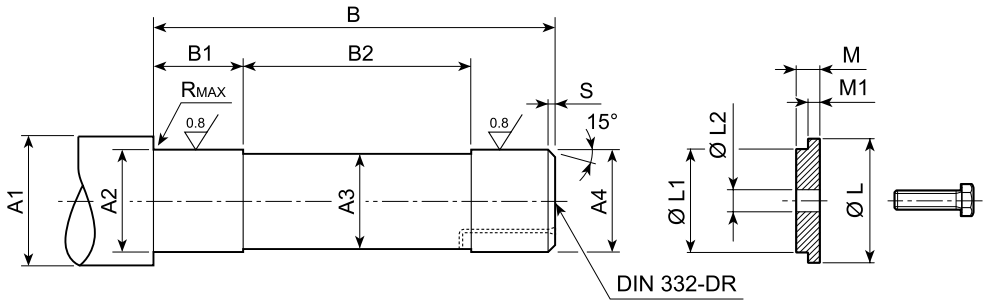
QF



Dimensions are in mm

		A1	A2	B1	B2	B3	S
F 10	**QF25**	25 h6	24	41	83	≥ 50	1.5
	QF30	30 h6	29				
F 20	**QF25**	25 h6	24	41	104.5	≥ 50	1.5
	QF30	30 h6	29				
F 25	**QF30**	30 h6	29	41	120.5	≥ 50	1.5
	QF32	32 h6	31				
F 31	**QF35**	35 h6	34	45	95.5	≥ 54	1.5
	QF40	40 h6	39				
F 41	**QF42**	42 h6	41	46	112.5	≥ 55	2
	QF45	45 h6	44				
F 51	**QF50**	50 h6	49	48	131	≥ 57	2
	QF55	55 h6	54				
F 60	**QF60**	60 h6	59	57	158	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				

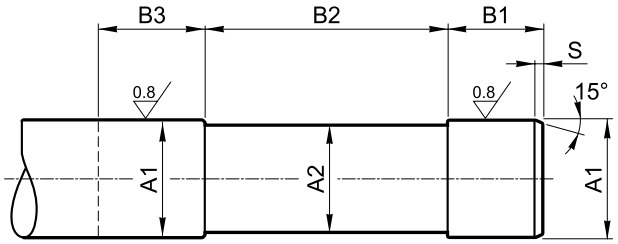
S



Dimensions are in Inch except when shown in *italic [mm]*

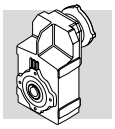
	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
F 10	≥ 1.417	1.063 $^{+0}_{-0.0008}$	0.945	0.984 $^{+0}_{-0.0005}$	5.433	1.339	2.756	0.020	0.059	1.161	0.984 $^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
F 20	≥ 1.654	1.260 $^{+0}_{-0.0010}$	1.142	1.181 $^{+0}_{-0.0005}$	6.299	1.496	3.307	0.020	0.059	1.398	1.181 $^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
F 25	≥ 1.654	1.260 $^{+0}_{-0.0010}$	1.181	1.220 $^{+0}_{-0.0006}$	6.772	1.496	3.780	0.020	0.059	1.398	1.220 $^{-0.0031}_{-0.0056}$	0.354	0.276	0.217	*M8x25*
F 31	≥ 1.969	1.496 $^{+0}_{-0.0010}$	1.378	1.417 $^{+0}_{-0.0006}$	6.102	1.575	2.874	0.039	0.079	1.693	1.417 $^{-0.0031}_{-0.0056}$	0.354	0.276	0.217	*M8x25*
F 41	≥ 2.283	1.732 $^{+0}_{-0.0010}$	1.614	1.654 $^{+0}_{-0.0006}$	6.969	1.831	3.228	0.039	0.079	1.929	1.654 $^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
F 51	≥ 2.677	2.126 $^{+0}_{-0.0012}$	2.008	2.047 $^{+0}_{-0.0011}$	7.913	1.890	3.583	0.039	0.079	2.402	2.047 $^{-0.0039}_{-0.0069}$	0.709	0.354	0.295	*M16x45*
F 60	≥ 3.307	2.638 $^{+0}_{-0.0012}$	2.520	2.559 $^{-0.0004}_{-0.0011}$	9.764	2.087	5.236	0.059	0.079	3.150	2.559 $^{-0.0039}_{-0.0069}$	0.709	0.354	0.295	*M16x45*
F 70	≥ 4.094	3.228 $^{+0}_{-0.0014}$	3.110	3.150 $^{-0.0004}_{-0.0011}$	12.126	3.071	5.512	0.098	0.098	3.740	3.150 $^{-0.0039}_{-0.0069}$	0.866	0.531	0.472	*M20x55*
F 80	≥ 4.488	3.622 $^{+0}_{-0.0014}$	3.504	3.543 $^{-0.0005}_{-0.0013}$	14.370	3.465	6.969	0.098	0.098	4.134	3.543 $^{-0.0047}_{-0.0081}$	0.866	0.531	0.472	*M20x55*
F 90	≥ 4.961	4.016 $^{+0}_{-0.0014}$	3.898	3.937 $^{-0.0005}_{-0.0013}$	16.909	3.858	8.720	0.098	0.098	4.724	3.937 $^{-0.0047}_{-0.0081}$	1.024	0.787	0.728	*M24x70*

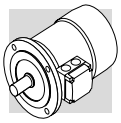
NQF



Dimensions are in Inch except when shown in *italic [mm]*

		A1	A2	B1	B2	B3	S
F 10	**NQF1**	1.000 $^{+0}_{-0.0005}$	0.961	1.614	3.268	≥ 1.969	0.059
	NQF1-3/16	1.188 $^{+0}_{-0.0006}$	1.148				
F 20	**NQF1**	1.000 $^{+0}_{-0.0005}$	0.961	1.614	4.114	≥ 1.969	0.059
	NQF1-3/16	1.188 $^{+0}_{-0.0006}$	1.148				
F 25	**NQF1-3/16**	1.188 $^{+0}_{-0.0006}$	1.148	1.614	4.744	≥ 1.969	0.059
	NQF1-1/4	1.250 $^{+0}_{-0.0006}$	1.211				
F 31	**NQF1-3/8**	1.375 $^{+0}_{-0.0006}$	1.336	1.772	3.760	≥ 2.126	0.059
	NQF1-7/16	1.438 $^{+0}_{-0.0006}$	1.398				
F 41	**NQF1-5/8**	1.625 $^{+0}_{-0.0006}$	1.586	1.811	4.429	≥ 2.165	0.079
	NQF1-3/4	1.750 $^{+0}_{-0.0006}$	1.711				
F 51	**NQF1-15/16**	1.938 $^{+0}_{-0.0006}$	1.898	1.890	5.157	≥ 2.244	0.079
	NQF2	2.000 $^{+0}_{-0.0007}$	1.961				
F 60	**NQF2-3/8**	2.375 $^{+0}_{-0.0007}$	2.336	2.244	6.220	≥ 2.598	0.098
	NQF2-7/16	2.438 $^{+0}_{-0.0007}$	2.398				
	NQF2-3/4	2.750 $^{+0}_{-0.0007}$	2.711				



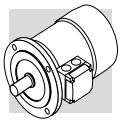


ELECTRIC MOTORS

M1 SYMBOLS AND UNITS OF MEASUREMENT

Symbols	Units of Measure	Description
$\cos\varphi$	–	Power factor
η	–	Efficiency
f_m	–	Power adjusting factor
I	–	Cyclic duration factor
I_N	[A]	Rated current
I_S	[A]	Locked rotor current
J_C	[Kgm^2] [lb•ft^2]	Load moment of inertia
J_M	[Kgm^2] [lb•ft^2]	Moment of inertia
K_c	–	Torque factor
K_d	–	Load factor
K_J	–	Inertia factor
M_A	[Nm] [lb•in]	Mean breakaway torque
M_B	[Nm] [lb•in]	Brake torque
M_N	[Nm] [lb•in]	Rated torque
M_L	[Nm] [lb•in]	Counter-torque during acceleration
M_S	[Nm] [lb•in]	Starting torque

Symbols	Units of Measure	Description
n	[min^{-1}] [rpm]	Rated speed
P_B	[W]	Power drawn by the brake at 20°C [68°F]
P_n	[kW] [hp]	Motor rated power
P_r	[kW] [hp]	Required power
t_1	[ms]	Brake response time with one-way rectifier
t_{1s}	[ms]	Brake response time with electronic-controlled rectifier
t_2	[ms]	Brake reaction time with a.c. disconnect
t_{2c}	[ms]	Brake reaction time with a.c. and d.c. disconnect
t_a	[°C] [°F]	Ambient temperature
t_f	[min]	Work time at constant load
t_r	[min]	Rest time
W	[J] [lb•ft]	Braking work between service interval
W_{max}	[J] [lb•ft]	Maximum brake work for each braking
Z	[1/h]	Permissible starting frequency, loaded
Z_0	[1/h]	Max. permissible unloaded starting frequency (I = 50%)



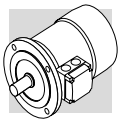
M2 INTRODUCTION

To harmonize efficiency classifications for motors manufactured and sold in the global market, the International Electrotechnical Commission (IEC) introduced Standard IEC 60034-30:2008, which was updated in 2014 and is now referred to as IEC 60034-30-1:2014, “Rotating electrical machines – Part 30-1: Efficiency classes of line operated AC motors.”In addition to defining efficiency classes for electric motors, the IEC has also developed a standard that specifies how to determine motor efficiencies and losses based on established testing methods. This standard, IEC 60034-2-1 : 2024, ensures an international common base for electric motor designing and classification, as well as for national legislative activities and provides the basis for defining the efficiency classes in IEC 60034-30-1.
Both standards were developed in conjunction with the National Electrical Manufacturers Association (NEMA), the Japan Electrical Manufacturers Association (JEMA), and the European Committee of Manufacturers of Electrical Machines and Power Electronics (CEMEP).
In 2017, the IEC published a new standard dealing with the energy efficiency of AC drives and drive-motor systems:
IEC 61800-9 “Ecodesign for power drive systems, motor starters, power electronics and their driven applications”. The standard IEC 61800-9 is harmonized in Europe as EN 61800-9 and replaces the earlier standard EN 50598 (-1 and -2).
The European Regulation 2019/1781, fully implemented since July 2023, defines for the first time legally binding energy efficiency standards for frequency inverters.

The following table shows the correspondence among the main classes.

Global efficiency classes

IEC 60034-30-1	IE1	IE2	IE3	IE4	IE5
NEMA MG-1	STANDARD	HIGH	PREMIUM	SUPER PREMIUM	
GB 18613		GRADE 4	GRADE 3	GRADE 2	GRADE 1
NBR 17094-1		IR2	IR3		
AS/NZS 1359,5	IE1	IE2	IE3		
IS 12615	IE1	IE2	IE3	IE4	
SASO 2893	IE1	IE2	IE3	IE4	
KS C IEC 60034	IE1	IE2	IE3	IE4	
JIS C 4034-30	IE1	IE2	IE3	IE4	

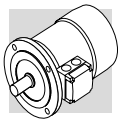


History of energy efficiency standards
IEC 60034-2-1: 2007: harmonizes the procedures for the measurement of efficiencies.
IEC 60034-30: 2008: specifies efficiency classes and forms the basis for the various national efficiency requirements.
IEC 60034-2-1: 2014: is intended to establish methods of determining efficiencies from tests, and to specify methods of obtaining specific losses.
IEC 60034-30-1: 2014: takes a step further in widening the scope of motors subject to efficiency classes and introduces the IE4 class. VSD-driven motors are out of the scope of this standard and will be dealt with in a standard of its own.
IEC TS 60034-30-2: 2016: Rotating electrical machines - Part 30-2: Efficiency classes of variable speed AC motors (IE-code)
IEC 60034-2-3 : 2020: Rotating electrical machines - Part 2-3: Specific test methods for determining losses and efficiency of converter-fed AC motors.
IEC 60034-2-1: 2024: Updates the standard methods for determining losses and efficiency from tests, introducing refined procedures to ensure higher measurement accuracy.

The IE classes are shown in the following table:

Class type	**Class number**
Standard efficiency	IE1
High efficiency	IE2
Premium efficiency	IE3
Super premium efficiency	IE4

IEC 61800-9:2017 introduced the extended product approach, which allows us to determine the efficiency of drive + motor + driven equipment (i.e. a pump) under defined load-time profile.
The regulation defines efficiency classes for AC drives and motor-drive systems (Power Drive Systems in the standard).
For AC drives, the standard defines three classes: IE0, IE1 and IE2.
For motor-drive systems, there are again three classes: IES0, IES1 and IES2. The ‘S’ after ‘IE’ stands for ‘system’.
European Regulation 2019/1781: New regulations for the European market for induction motors and electronic motors controls such as frequency inverters.



M3 GENERAL CHARACTERISTICS

M3.1 Production range

The asynchronous three-phase electric motors of BONFIGLIOLI, are available in basic design IMB5 and derived versions, with the following polarities: 2, 4, 6 at 50Hz and 60Hz.
Motors are provided as totally enclosed fan cooled (TEFC) for use in industrial environments.
Standard versions of BX-BE/MX-ME motors are 230/400V Δ/Y (400/690V Δ/Y in sizes BX-BE 160 and BX-BE 180), 50 Hz motors. Standard BN/M motors are designed to operate from a rated voltage 230/400V Δ/Y (400/690V Δ/Y for frame sizes BN 160 through BN 200) 50 Hz.
On the BXN/MXN motors, it is present a terminal box with 9 PIN connection + 12 wires winding that makes it easy to obtain the right voltage for most countries as standard. The Standard versions is identified as WD1 and makes it possible to obtain the following voltages/frequency (115/200/230/400V-50Hz and 132/230/265/460V-60Hz). For the BXN/MXN motors the voltage tolerance is ±5%.

M3.2 Standards

The motors described in this catalogue are manufactured to the applicable standards shown in the following table.

(F01)

Title	CEI	IEC
General requirements for rotating electrical machines	**CEI EN 60034-1**	**IEC 60034-1**
Terminal markings and direction of rotation of rotating machines	**CEI 2-8**	**IEC 60034-8**
Methods of cooling for electrical machines	**CEI EN 60034-6**	**IEC 60034-6**
Dimensions and output ratings for rotating electrical machines	**EN 50347**	**IEC 60072**
Classification of degree of protection provided by enclosures for rotating machines	**CEI EN 60034-5**	**IEC 60034-5**
Noise limits	**CEI EN 60034-9**	**IEC 60034-9**
Classification of type of construction and mounting arrangements	**CEI EN 60034-7**	**IEC 60034-7**
Rated voltage for low voltage mains power	**CEI 8-6**	**IEC 60038**
Vibration level of electric machines	**CEI EN 60034-14**	**IEC 60034-14**
Efficiency classes of single-speed, three-phase, cage-induction motors (IE code)	**CEI EN 60034-30-1**	**IEC 60034-30-1**
Standard method for determining losses and efficiency from tests	**CEI EN 60034-2-1**	**IEC 60034-2-1**

The motors also comply with foreign standards adapted to IEC 60034-1 as shown here below.

(F02)

NEMA MG1	USA
DIN VDE 0530	Germany
BS5000 / BS4999	Great Britain
AS 1359	Australia
NBNC 51 - 101	Belgium
NEK - IEC 34	Norway
NF C 51	France
OEVE M 10	Austria
SEV 3009	Switzerland
NEN 3173	Netherlands
SS 426 01 01	Sweden

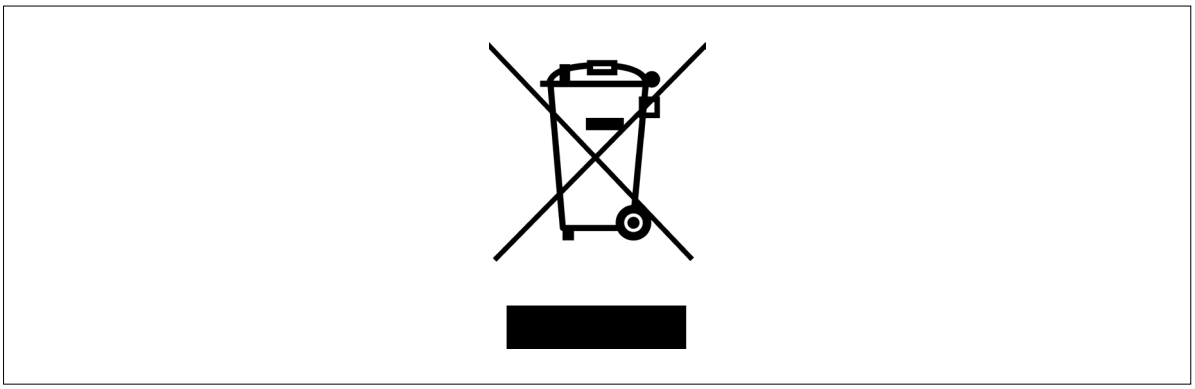
M3.3 Directives 2006/95/EC (LVD) and 2004/108/EC (EMC)

Bonfiglioli motors meet the requirements of Directives 2014/35/UE (LVD - Low Voltage Directive), the 2014/30/UE (EMC - Electromagnetic Compatibility Directive), the 2009/125/CE (ERP - Energy Related Products Directive) and 2011/65/UE (RoHS – Restriction of Hazardous Substances) and their nameplates bear the CE mark.
As for the EMC Directive, construction is in accordance with standards CEI EN 60034-1 (Rotating electrical machines Part 1: Rating and performance), CEI EN 61000-6-2 (Generic standards - Immunity for industrial environments), CEI EN 61000-6-4 (Generic standards - Emission standard for industrial environments).
Motors with FD brakes, when fitted with the suitable capacitive filter at rectifier input (option CF), meet the emission limits required by Standards CEI EN 61000-6-3 and CEI EN 60204-1.
The responsibility for final product safety and compliance with applicable directives rests with the manufacturer or the assembler who incorporate the motors as component parts.

UKCA mark as standard

In UK, the CE mark will be replaced by the UKCA (United Kingdom Conformity Assessed mark) mark, due to Brexit, starting from 1st January 2022. All Bonfiglioli motors are already compliant with UKCA requirements.

M3.4 EU Directive 2012/19/EU - Information on disposal



This product should not be mixed with general household waste. Disposal has to be carried out in conformity with EU Directive 2012/19/EU where established, and in accordance to national regulations.
Fulfill disposal in accordance with any other legislation in force throughout the country.

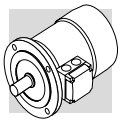
M3.5 Tolerances

As per the Norms CEI EN 60034-1, applicable the tolerances here below apply to the following quantities.

(F03)

-0.15 (1 - η) P ≤ 150 kW [75 hp] -0.10 (1 - η) P > 150 kW [75 hp]	Efficiency
-(1 - cosφ)/6 min 0.02 max 0.07	Power factor
±20% *	Slip
+20%	Locked rotor current
-15% +25%	Locked rotor torque
-10%	Max. torque

(*) ± 30% for motors with Pn < 1 kW [0.75 hp]



M4 MOTOR DESIGNATION

MOTOR

BXN 80MB 4 WD1 60 IP55 CLF B5 **W** IC0 MFC .....

FAN COVER MATERIAL
MFC Metal fan cover

CABLE ENTRY POSITION
Terminal box size S
IC0 (Standard), **IC1**
Terminal box size L
IC0 (Standard), **IC1**, **IC2**

TERMINAL BOX POSITION (1)
W (default), **N**, **E**, **S**

MOTOR MOUNTING
- compact motor
IM B5 - IEC motor

INSULATION CLASS
CL F standard
CL H option

DEGREE OF PROTECTION
IP55 standard
IP56 option

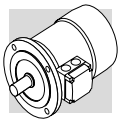
VOLTAGE - FREQUENCY
(See Paragraph M7.1)

POLE NUMBER
4

MOTOR SIZE
63MA ... 132M (IEC motor)
05MA...20MB (Compact motor)

MOTOR TYPE
BXN = IEC 3-phase, class IE3 **MXN** = compact 3-phase, class IE3

(1) Compact motor only



BRAKE

..... **FDD** 15 NR SA 400 R AA MRM

BRAKE MONITORING DEVICE
- (Standard), **MRM**, **MWM**

BRAKE HAND RELEASE LEVER POSITION

BRAKE HAND RELEASE LEVER
- (Standard), **R**

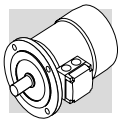
BRAKE SUPPLY

SEPARATE BRAKE SUPPLY
SD, SA

AC/DC TYPE RECTIFIER
NR, SR

BRAKE TORQUE

BRAKE TYPE
- (Standard), **FDD**



MOTOR

BY 280MAK 4 400/690-50 IP55 CLF B5 .....

OPTIONS

MOTOR MOUNTING
IM B5 - IEC motor

INSULATION CLASS
CL F standard
CL H option

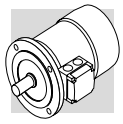
DEGREE OF PROTECTION
IP55, IP56 standard

VOLTAGE - FREQUENCY
400/690-50

POLE NUMBER
4

MOTOR SIZE
280SCK ... 355SAK (IEC motor)

MOTOR TYPE
BY = IEC 3-phase, class IE4



MOTOR BRAKE

BX 132SB 4 230/400-50 IP55 CLF B5 **W** **FD** 7.5 R AA SB 220 SA .....

OPTIONS

BRAKE SUPPLY

RECTIFIER TYPE
AC/DC
NB, **SB, NBR, SBR**

RELEASE LEVER ORIENTATION
AA, AB (standard)**, AC, AD**

BRAKE HAND RELEASE
R, RM

BRAKE TORQUE

BRAKE TYPE
FD (d.c. brake)

TERMINAL BOX POSITION
(compact motor only)
W (default), **N**, **E**, **S**

MOTOR MOUNTING
− compact motor
IM B5 - IEC motor

INSULATION CLASS
CL F standard
CL H option

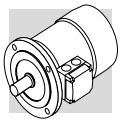
DEGREE OF PROTECTION
IP55 standard (IP56 - option)
IP54, **IP55** brake motor

VOLTAGE - FREQUENCY
(See Paragraph M7.1)

POLE NUMBER
4

MOTOR SIZE
63A ... 355 (IEC motor)
05A ... 5LA (compact motor)

MOTOR TYPE
BX = IEC 3-phase, class IE3 **MX** = compact 3-phase, class IE3



MOTOR | BRAKE

BE 90LA 4 230/400-50 IP55 CLF B5 **W** **FD** 7.5 R AA SB 220 SA .....

OPTIONS

BRAKE SUPPLY

RECTIFIER TYPE
AC/DC
NB, **SB, NBR, SBR**

RELEASE LEVER ORIENTATION
AA, AB (standard)**, AC, AD**

BRAKE HAND RELEASE
R, RM

BRAKE TORQUE

BRAKE TYPE
FD (d.c. brake)

TERMINAL BOX POSITION
(compact motor only)
W (default), **N**, **E**, **S**

MOTOR MOUNTING
− compact motor
IM B5 - IEC motor

INSULATION CLASS
CL F standard
CL H option

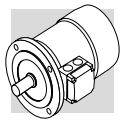
DEGREE OF PROTECTION
IP55 standard (IP56 - option)
IP54, **IP55** brake motor

VOLTAGE - FREQUENCY
(See Paragraph M7.1)

POLE NUMBER
2, **4**, **6**

MOTOR SIZE
63A ... 180L (IEC motor)
05A ... 5L (compact motor)

MOTOR TYPE
BE = IEC 3-phase, class IE2 **ME** = compact 3-phase, class IE2



MOTOR BRAKE

BN 90LA 4 230/400-50 IP55 CLF B5 **W** **FD** 7.5 R AA SB 220 SA .....

OPTIONS

BRAKE SUPPLY

RECTIFIER TYPE
AC/DC
NB, **SB, NBR, SBR**

RELEASE LEVER ORIENTATION
AA, AB (standard)**, AC, AD**

BRAKE HAND RELEASE
R, RM

BRAKE TORQUE

BRAKE TYPE
FD (d.c. brake)

TERMINAL BOX POSITION
(compact motor only)
W (default), **N**, **E**, **S**

MOTOR MOUNTING
− compact motor
IM B5 - IEC motor

INSULATION CLASS
CL F standard
CL H option

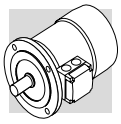
DEGREE OF PROTECTION
IP55 standard (IP56 - option)
IP54, **IP55** brake motor

VOLTAGE - FREQUENCY
(See Paragraph M7.1)

POLE NUMBER
2, **4**, **6**

MOTOR SIZE
56A ... 200LA (IEC motor)
0B ... 5SB (compact motor)

MOTOR TYPE
BN = IEC 3-phase **M** = IEC compact 3-phase



M5 VARIANTS AND OPTIONS

M5.1 Variants

(F04)

Category	Description	Default	Option
Voltage	(BN - BE - BX) ≤ 132	230/400/50	…
	(BN - BE - BX) ≥ 160 / (BY) ≥ 280	400/690/50	
	(BXN)	WD1	
Insulation class	All motor series	CLF	CLH
Design version	BX - BE - BN	B5	B5R
	BXN	B5	-

Default values. * See EVOX specific catalogue

M5.2 Options

(F05)

Description	Catalogue numbers								Availability
Thermal protective devices	D3	K1	E3	PT1000°°	PT100*				BY-BXN-BX-BE-BN-MXN-MX-ME-M
50 Hz normalized power	PN								BN - M
Feedback devices	EN1	EN2	EN3	EN4	EN5	EN6	EN7*	EN8*	BY-BXN-BX-BE-BN-MXN-MX-ME - M
Anti-condensate heaters	H1	NH1							BY-BXN-BX-BE-BN-MXN-MX-ME - M
Tropicalized windings	TP								BY-BXN-BX-BE-BN-MXN-MX-ME - M
Double-extended shaft	PS								BY-BXN-BX-BE-BN-MXN-MX-ME - M
Rotor balancing grade B	RV								BY - BX - BE - BN - MX - ME - M
External mechanical protections	RC	TC****	EC°°						BY-BXN-BX-BE-BN-MXN-MX-ME - M
Forced ventilation	U1	U2**							BY - BX - BE - BN - MX - ME - M
Insulated Bearings	IB*								BY - BX
Certification UL	CUS°								BXN- BX - BE - BN - MXN- MX - ME - M
Bureau of Indian Standard Certification	BIS								BXN - BX - BE - MX - ME
China Compulsory Certification	CCC								BN - M
China Energy Label	CEL								BX - MX
Global motor	CN								BXN - MXN
NBR Certification	NBR								BX - MX
EECA Ceertification	EECA								BX
Plug connector	CON****								BX - BE - BN MX - ME - M
Surface protection	C_								BY-BXN-BX-BE-BN-MXN-MX-ME - M
Painting	RAL								BY-BXN-BX-BE-BN-MXN-MX-ME - M
Certificates	ACM****								BXN- BX - BE - BN - MXN- MX - ME - M
Inspection certificate	CC								BY-BXN-BX-BE-BN-MXN-MX-ME - M
Vertical Mounting	VM*								BY - BX
Backstop device	AL	AR							MX - ME - M
Type of duty	S2	S3							BN - M
	S2-10	S2-30	S2-60	S3=25%	S3=40%		S3=70%		BXN - MXN

* BX >=200 and BY >= 280 ** Only for motors BN *** Not for motors BX - MX

° Standard on BXN/MXN not an option °° Only for motors BXN/MXN **** Only for BN-BE and BX<=180

M5.3 Brake-related options

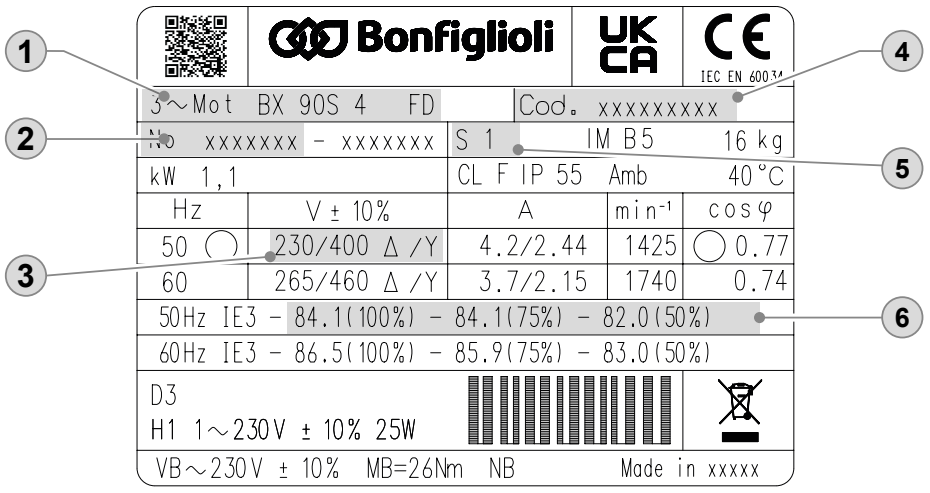
(F06)

Description	Catalogue numbers				Availability
Brake torque	Refer to the specific brake type				
Manual release lever	R	RM°			BXN - BX - BE - BN MXN - MX - ME - M
Release lever orientation	AB	AA	AC	AD	BXN - BX - BE - BN MXN - MX - ME - M
DC brake rectifier	NB	NBR	SB	SBR	BX - BE - BN MX - ME - M
	NR	SR			BXN MXN
Soft-start flywheel	F1				BE - BN ME - M
Capacitive filter	CF				BX - BE - BN MX - ME - M
Brake separate power supply (*)	...SA	...SD			BXN - BX - BE - BN MXN - MX - ME - M
Brake functionality check	MSW				BX - BE - BN MX - ME - M
	MRM	MWM			BXN MXN
Additional cable entry for brake motors	IC				BN M

(*) Specify voltage. (°) Not for BXN/MXN

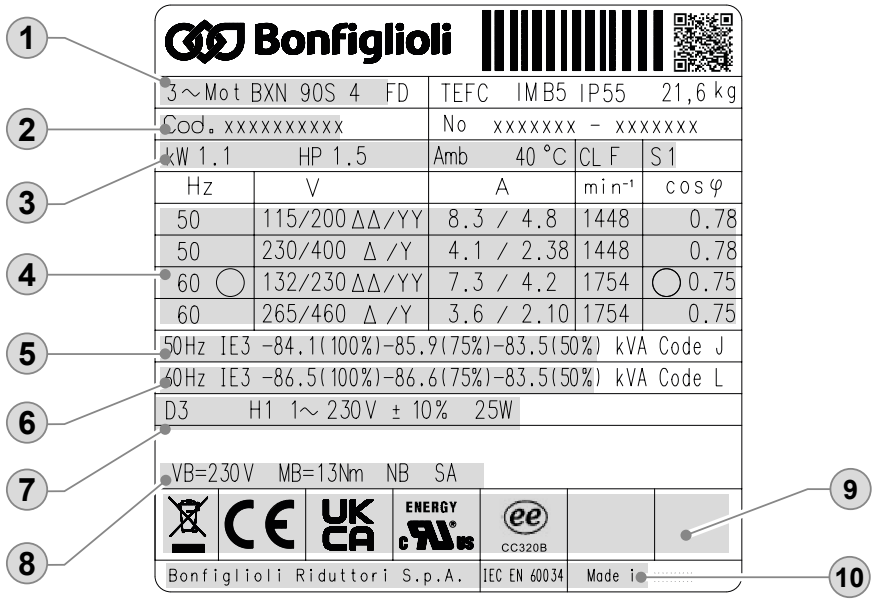
Default values.

M5.4 Example of identification nameplate for legacy motors (BX - BE - BN)



① BONFIGLIOLI Motor type
② Serial number
③ Rated voltage
④ Motor code
⑤ Type of duty: S1 Continuous duty
⑥ IE Class, Efficiency at: 4/4 - 3/4 - 2/4 load

M5.4.1 Example of identification nameplate for EVOX motors (BXN)



① Motor designation and general information
② Serial codes
③ Environment & application compliancy
④ Rated performances function of voltages/frequencies
⑤ Motor performances @ 50 Hz
⑥ Motor performances @ 60 Hz
⑦ Thermal protection and Servo ventilation information
⑧ Brake information
⑨ Certifications
⑩ Manufactory information

M6 MECHANICAL FEATURES

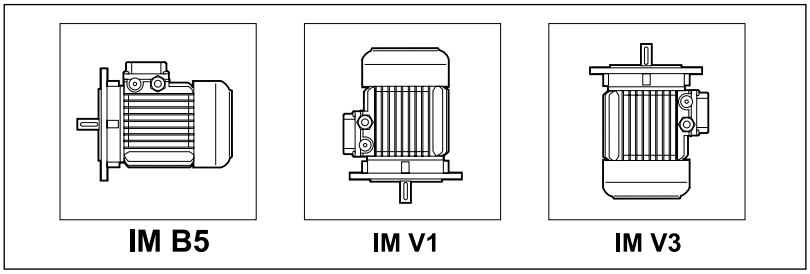
M6.1 Versions

EC-normalised BXN, BX, BE and BN motors are available in the design versions as indicated in the table below here after as per Standards EN 60034-7 (BX/BE), CEI EN 60034-14 (BN).

Mounting versions are:
IM B5 (basic)
IM V1, IM V3 (derived)

IM B5 design motors can be installed in positions IM V1 and IM V3; in such cases, the basic design IM B5 is indicated on the motor name plate.
In design versions with a vertically located motor and shaft downwards, it is recommended to request the drip cover (always necessary for brake motors). This facility, included in the option list should be specified when ordering as it does not come as a standard device

(F07)

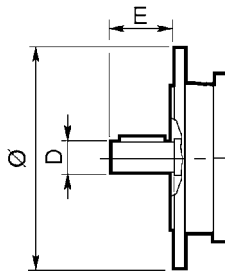


For Motor BX≥200K and BY≥280K it is necessary to select VM options when vertically mounted.

If the motor will be mounted with DE facing downwards, selection of RC option is recommended. This has to be specified during the ordering phase because not present in standard motor version.

Flange output motors are also available with reduced coupling dimensions, as indicated in the table below - executions **B5R**. Their use in combination with gearboxes must be however coherent with the maximum installable power on gearboxes themselves (see chapters “Motors availability”). In case this condition is not met need to contact the Technical Service for the checking of the combination.

(F08)



		BX/BE/BN 71	BX/BE/BN 80	BX/BE/BN 90	BX/BE/BN 100	BX/BE/BN 112	BX/BE/BN 132
		DxE - Ø					
B5R(1)	[mm]	11x23 - 140	14x30 - 160	19x40 - 200	24x50 - 200	24x50 - 200	28x60 - 250
	[in]	0.433x0.905 - 5.511	0.551x1.181 - 6.299	0.748x1.574 - 7.874	0.944x1.968 - 7.874	0.944x1.968 - 7.874	1.102x2.362 - 9.842

(1) flange with through holes

M6.2 Degree of protection

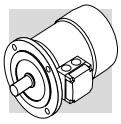
IP..

The following chart provides an overview of the degrees of protection available.
In addition to the degree of protection specified when ordering, motors to be installed outdoors require protection against direct sunlight and also – when they are to be installed vertically down – a drip cover to prevent the ingress of water and solid particles (option RC).

(F09)

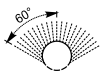
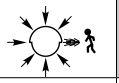
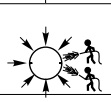
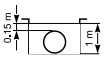
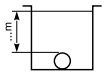
		IP 54	IP 55	IP 56
BY…K - BX…K - BX - BE - BN	**MX - ME - M**	⛔	standard	option
BXN	**MXN**	⛔	standard	option
BXN_FDD	**MXN_FDD**	⛔	standard	option
BX_FD - BE_FD - BN_FD	**MX_FD - ME_FD - M_FD**	standard	option	⛔
200 ≤ **BX… K_FD** < 280	**-**	⛔	standard	⛔
BX…K_FD ≥ 280	**-**	⛔	standard	option

(*) BX ≤ 180_FD



IP	5	5

0		Not protected
1		Protected against extraneous solid bodies having Ø ≥ 50 mm [2 in]
2		Protected against extraneous solid bodies having Ø ≥ 12.5 mm [0.5 in]
3		Protected against extraneous solid bodies having Ø ≥ 2.5 mm [0.1 in]
4		Protected against extraneous solid bodies having Ø ≥ 1.0 mm [0.04 in]
5		Protected against dust
6		No dust ingress

0		Not protected
1		Protected against vertical water drips
2		Protected against vertical water drips inclined up to 15°
3		Protected against rain
4		Protected against water splashes
5		Protected against jets of water
6		Protected against powerful jets of water
7		Protected against the effects of temporary immersion
8		Protected against the effects of continuous immersion

M6.3 Cooling

The motors are externally ventilated (IC 411 to CEI EN 60034-6) and are equipped with a plastic fan working in both directions.
The motors must be installed allowing sufficient space between fan cowl and the nearest wall to ensure free air intake and allow access for maintenance purposes on motor and brake, if supplied.
Independent, forced air ventilation (IC 416) can be supplied on request (option U1).
This solution enables to increase the motor duty factor when driven by an inverter and operating at reduced speed.

M6.4 Direction of rotation

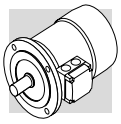
Rotation is possible in both directions. If terminals U1, V1 and W1 are connected to line phases L1,L2 and L3, clockwise rotation (looking from drive end) is obtained. For counterclockwise rotation, switch two phases.

M6.5 Noise

Noise levels, measured using the method prescribed by ISO 1680 Standards, are within the maximum levels specified by Standards CEI EN 60034-9.

M6.6 Vibrations and balancing

Rotor shafts are balanced with half key fitted and fall within the vibration class N, as per Standard CEI EN 60034-14.



M6.7 Terminal box

Legacy motors (BN/M - BE/ME - BX/MX) terminal board features 6 studs for eyelet terminal connection while EVOX BXN and MXN motors have always 9 studs as standard.
When a legacy motor have UL option active the terminal board features 9 studs execution (for US voltage “Dual Voltage”). A ground terminal is also supplied for earthing of the equipment. Terminals number and type are shown in the following table. For brake power supply, please read par. M9 (brake FD). Brakemotors house the a.c./d.c. rectifier (factory pre-wired) inside the terminal box. Wiring instructions are provided either in the box or in the user manual.

(F10)

		No. of terminals	Terminal threads
BXN 63 ... BXN 132	**MXN05 ... MXN40**	9	M4
BX 63 ... BX 90 **BE 63 ... BE 90** **BN 56 ... BN 90**	**MX05 ... MX2** **ME05 ... ME2** **M05 ... M2**	6	M4
BX 100 ... BX 132 **BE 100 ... BE 132** **BN 100 ... BN 160MR**	**MX3, MX4** **ME3, ME4** **M3 ... M4**	6	M5
BX 160 - BE 160 ... BE 180M **BN 160M ... BN 180M**	**ME5** **MX5 - M5**	6	M6
BX 180 - BE 180L **BN 180L ... BN 200L**	**-** **-**	6	M8
BX 200K ... BX 250K	**-**	6	M10
BY 280K ... BY 355K **BX 280K ... BX 355K**	**-** **-**	6	M12
BX 80 ... BX 132 **BE 63 ... BE 132** **BN 63 ... BN 160MR**	**MX2 ... MX4** **ME05 ... ME4** **M05 ... M4**	9	M4
BX 160 ... BX 180 **BE 160 ... BE 180** **BN 160M ... BN 200L**	**MX5** **ME5** **M5**	9	M6

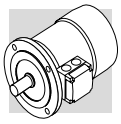
M6.8 Cable entry

The holes used to bring cables to terminal boxes use metric threads in accordance with standard EN 50262 as indicated in the table here after.

(F11)

		Terminal Box - Small "S"		Terminal Box - Standard "L"			
		Cable gland and dimensions	Position	Cable gland and dimensions	Position	Maximum cable diameter allowed [mm]	[inch]
BXN 63 ... BXN 112	**MXN 05 ... MXN 35** **MNN 05 ... MNN 10**	2 x M25 x 1.5	1 + 1 hole on each side	2 x M25 x 1.5	1 + 1 hole on each side	17	0.669
		2 x M16 x 1.5		2 x M16 x 1.5		10	0.394
		-	-	1 x M16 x 1.5	1 hole in the back	10	0.394
BXN 132	**MXN 40**	-	-	2 x M32 x 1.5	1 + 1 hole on each side	21	0.827
		-	-	2 x M16 x 1.5		10	0.394
		-	-	1 x M16 x 1.5	1 hole in the back	10	0.394

		Cable gland and dimensions	Position	Maximum cable diameter allowed [mm]	[inch]
BX 63 - BE 63 - BN 63	**MX05 - ME05 - M05**	2 x M20 x 1.5	1 Hole on each side	13	0.512
BN71 ... BN90, BE71 ... BE90, BX71 ... BX90	**M1 - M2, ME1 - ME2, MX1 - MX2**	2 x M25 x 1.5		17	0.669
BN100 - BN112, BE100 - BE112, BX100 - BX112	**MX3, MX4 - ME3 M3**	2 x M32 x 1.5	2 Holes on each side	21	0.827
		2 x M25 x 1.5		17	0.669
BN132 ... BN160MR, BE132, BX132	**M4, ME4, MX4**	4 x M32 x 1.5		21	0.827
BXN 132	**MXN 40**	2 x M32 x 1.5	1+1 Hole on each side	21	0.827
		2 x M16 x 1.5		10	0.394
		1 x M16 x 1.5	1 Hole in the back	10	0.394
BN160M ... BN200L, BE160 - BE180, BX160 - BX180	**M5, ME5, MX5**	2 x M40 x 1.5	Pivoting, 4 x 90°	28	1.102
		2 x M20 x 1.5		13	0.512
BY 280K ... BY 355K **BX 200K ... BX 355K**	**-**	2 x M63 x 1.5	Pivoting, 4 x 90°	45	1.770



IC0

Cable entry position

This option allows the direction of cable entry into the terminal box to be selected.
In specific configurations, it enables the use of the optimised terminal box (size S) for IEC frame sizes 63, 71, 80, 90, 100 and 112, and for compact sizes 05, 10, 20, 25, 30 and 35.
If this option is not defined in the configurator, the standard terminal box design (size L) will remain unchanged.

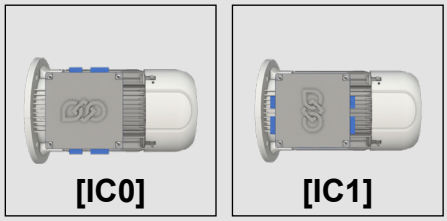
Terminal box type

The following table shows the relationship between the “Cable entry position” option, the presence of a brake, and the motor size.

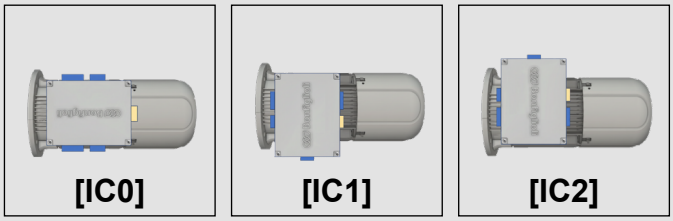
Cable entry position		[IC0] , [IC1] , [IC2]	
IEC motor size	Compact motor size	Without brake	With brake
63-71-80	05-10-20	S	L
90-100-112	25-30-35	S	L
132	40	L	L

To illustrate the logic behind the new product variants, the following examples show how the product designation changes according to the terminal box size and the available cable entry options.

Size S
Cable entry option = **[IC0], [IC1]**



Size L
Cable entry option = **[IC0], [IC1], [IC2]**



Fan cover material

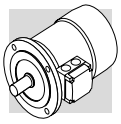
Specifies the motor fan cover material. It is essential to ensure durability and compliance across various sectors.

MFC

Metal fan cover

Specifies the motor metal sheet fan cover material, offering a heavy-duty metallic alternative to the standard plastic version to meet specific industrial requirements.
It is essential to ensure durability and compliance in demanding sectors such as metalworking (impact and spark resistance), the food industry (metal particles detection on conveyors), cold environment, etc..
Starting from motor with brake size 90 ahead, the metal fan cover is provided as standard, while for smaller sizes it is mandatory when specific options like encoders, RAL painting and double shaft are selected.

Fan cover material					
IEC motor size	Compact motor size	Without brake		With brake	
		standard	option	standard	option
63	05	Plastic	Metal	Plastic	Metal
71	10	Plastic	Metal	Plastic	Metal
80	20	Plastic	Metal	Plastic	Metal
90	25	Plastic	Metal	Metal	-
100	30	Metal	-	Metal	-
112	35	Metal	-	Metal	-
132	40	Metal	-	Metal	-



M6.9 Bearings

Life lubricated preloaded radial ball bearings are used, types are shown in the chart here under.
Calculated endurance lifetime L10h, as per ISO 281, in unloaded condition, exceeds 40000 hrs.
DE = drive end
NDE = non drive end

(F12)

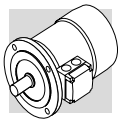
IEC (IE1-IE2)	DE	NDE	
		Without Brake	With Brake
BN 56	6201 2Z C3	6201 2Z C3	–
BE 63 BN 63	6201 2Z C3	6201 2Z C3	6201 2RS C3
BE 71 BN 71	6202 2Z C3	6202 2Z C3	6202 2RS C3
BE 80 - BN 80	6204 2Z C3	6204 2Z C3	6204 2RS C3
BE 90 - BN 90	6205 2Z C3	6205 2Z C3	6305 2RS C3
BE 100 - BN 100	6206 2Z C3	6206 2Z C3	6206 2RS C3
BE 112 - BN 112	6306 2Z C3	6306 2Z C3	6306 2RS C3
BE 132 - BN 132	6308 2Z C3	6308 2Z C3	6308 2RS C3
BN 160MR	6309 2Z C3	6308 2Z C3	6308 2RS C3
BE 160M/L - BN 160M/L	6309 2Z C3	6309 2Z C3	6309 2RS C3
BN 180M	6310 2Z C3	6309 2Z C3	6309 2RS C3
BE 180M/L - BN 180L	6310 2Z C3	6310 2Z C3	6310 2RS C3
BN 200L	6312 2Z C3	6310 2Z C3	6310 2RS C3

IEC (IE3)	DE	NDE	
		Without Brake	With Brake
BXN 63 - BX 63	6201 2Z C3	6201 2Z C3	6201 2Z C3
BXN 71 - BX 71	6202 2Z C3	6202 2Z C3	6202 2Z C3
BXN 80 - BX 80	6204 2Z C3	6204 2Z C3	6204 2Z C3
BXN 90 - BX 90	6205 2Z C3	6205 2Z C3	6205 2Z C3
BXN 100 - BX 100	6206 2Z C3	6206 2Z C3	6206 2Z C3
BXN 112 - BX 112	6306 2Z C3	6306 2Z C3	6306 2Z C3
BXN 132 - BX 132	6308 2Z C3	6308 2Z C3	6308 2Z C3
BX 160M/L	6309 2Z C3	6309 2Z C3	6309 2Z C3
BX 180M/L	6310 2Z C3	6310 2Z C3	6310 2Z C3
BX 200K	6312/C3	6210/C3*	6310/C3
BX 225K	6313/C3*	6212/C3*	-
BX 250K	6315/C3*	6213/C3*	-
BY 280K - BX 280K	6316/C3*	6316/C3*	-
BY 315K - BX 315K	6319/C3**	6316/C3**	-
BY 355K - BX 355K	6322/C3**	6316/C3**	-

Compact (IE1-IE2) ACSF - W	DE*	NDE	
		Without Brake	With Brake
ME 05 - M 05	6004 2Z C3	6201 2Z C3	6201 2RS C3
ME 1 - M 1	6004 2Z C3	6202 2Z C3	6202 2RS C3
ME 2 - M 2	6007 2Z C3	6204 2Z C3	6204 2RS C3
ME 3 - M 3	6207 2Z C3	6206 2Z C3	6206 2RS C3
ME 4 - M 4	6309 2Z C3	6308 2Z C3	6308 2RS C3
ME 5 - M 5	6309 2Z C3	6309 2Z C3	6309 2RS C3

Compact (IE3) ACSF - W	DE	NDE	
		Without Brake	With Brake
MXN 05 - MX 05	6004 2Z C3	6201 2Z C3	6201 2Z C3
MXN 10 - MX 1	6004 2Z C3	6202 2Z C3	6202 2Z C3
MXN 20 - MX 2	6007 2Z C3	6204 2Z C3	6204 2Z C3
MX 3	6207 2Z C3	6206 2Z C3	6206 2Z C3
MX 4	6309 2Z C3	6308 2Z C3	6308 2Z C3
MX 5	6309 2Z C3	6309 2Z C3	6309 2Z C3

*Regreasable bearings with M6x1 Greasing Device
**Regreasable bearings with M10x1 Greasing Device
Note: Compact motors for W gearboxes are not equipped with a DE bearing



M7 ELECTRICAL CHARACTERISTICS

M7.1 Voltage

Single speed motors are provided in standard execution either for nominal voltage 230 / 400 V Δ/Y, 50 Hz, or 400 / 690 V Δ/Y, 50 Hz, with a voltage tolerance of ± 10%.
Note: Motor nominal voltage/frequency also depends on the selection of options related to energy certifications for specific markets. Table below, then, has to be intended only as a guideline, for more details on the available Voltages/Frequencies as a function of the selected certification, please refer to paragraph M7.5 - M7.10.

On all the motors, whose voltage / frequency configuration is not as indicated above, the voltage tolerance is ± 5%. For the operation out of the tolerance boundaries, the temperature may exceed by 10 K the limit provided by the adopted insulation class.
The motors are suitable for operation on distribution European grid with voltage complying with the pubblication IEC 60038.

(F13)

BN - M motor power supply voltages (IE1)

Single speed motors at 50Hz

Motor power supply voltage	— (CE)		CCC	CUS
	STD	FD		
220/380 - 50	✗	✓	✗	✓
230/400 - 50	✓	✓	✓	✓
240/415 - 50	✗	✓	✗	✓
290/500 - 50	✓	✓	✗	✓
380/660 - 50	✗	✓	✗	✓
400/690 - 50	✓	✓	✗	✓
415/720 - 50	✗	✓	✗	✓
500/865 - 50	✓	✓	✗	✓

Double speed motors at 50Hz

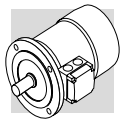
Motor power supply voltage	— (CE)	CCC	CUS
380 - 50	✓	✗	✓
400 - 50	✓	✓	✓
415 - 50	✓	✗	✓
500 - 50	✓	✗	✓

Single speed motors at 60Hz

Motor power supply voltage	— (CE)		CCC	CUS
	STD	FD		
208/360 - 60	✓	✓	✗	✓
220/380 - 60	✓	✓	✗	✓
230/400 - 60	✓	✓	✗	✓
255/440 - 60	✗	✓	✗	✓
265/460 - 60	✗	✓	✓	✓
280/480 - 60	✗	✓	✗	✓
330/575 - 60	✓	✓	✗	✓
380/660 - 60	✓	✓	✗	✓
400/690 - 60	✓	✓	✗	✓
440/760 - 60	✗	✓	✗	✓
460/800 - 60	✗	✓	✗	✓
480/830 - 60	✗	✓	✗	✓
575/995 - 60	✓	✓	✗	✓
220/440 - 60	✓	✓	✗	✓
230/460 - 60	✓	✓	✗	✓
240/480 - 60	✓	✓	✗	✓

Double speed motors at 60Hz

Motor power supply voltage	— (CE)	CUS
208 - 60	✓	✓
220 - 60	✓	✓
230 - 60	✓	✓
240 - 60	✓	✓
380 - 60	✓	✓
400 - 60	✓	✓
440 - 60	✓	✓
460 - 60	✓	✓
480 - 60	✓	✓
575 - 60	✓	✓



(F14)

BE - ME motor power supply voltages (IE2)			
Single speed motors at 50Hz			
Motor power supply voltage	**— (CE)**	**BIS**	**CUS**
220/380 - 50	✓	✓	✓
230/400 - 50	✓	✓	✓
240/415 - 50	✓	✓	✓
290/500 - 50	✓	✓	✓
380/660 - 50	✓	✓	✓
400/690 - 50	✓	✓	✓
415/720 - 50	✓	✓	✓
500/865 - 50	✓	✓	✓

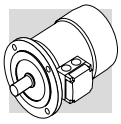
Single speed motors at 60Hz			
Motor power supply voltage	**— (CE)**		**CUS**
	STD	**FD**	
208/360 - 60	✓	✓	✓
220/380 - 60	✓	✓	✓
230/400 - 60	✓	✓	✓
255/440 - 60	✓	✓	✓
265/460 - 60	✗	✓	✓
280/480 - 60	✓	✓	✓
330/575 - 60	✗	✓	✓
380/660 - 60	✓	✓	✓
400/690 - 60	✓	✓	✓
440/760 - 60	✓	✓	✓
460/800 - 60	✗	✓	✓
480/830 - 60	✓	✓	✓
575/995 - 60	✓	✓	✓
220/440 - 60	✓	✓	✓
230/460 - 60	✓	✓	✓
240/480 - 60	✓	✓	✓

BX - MX motor power supply voltages (IE3)						
Single speed motors at 50Hz						
Motor power supply voltage	**— (CE)**	**CCC**	**CEL**	**NBR**	**BIS**	**CUS**
230/400-50	✓ (1)	✗	✓ (6) (1)	✗	✓ (1)	✗
290/500-50	✓	✗	✗	✗	✗	✗
380/660-50	✗	✗	✓ (4)	✗	✗	✗
400/690-50	✓ (2)	✗	✓ (2) (3)	✗	✗	✗

Single speed motors at 60Hz					
Motor power supply voltage	**— (CE)**		**NBR (*)**	**CUS**	
	STD	**FD**			
220/380-60	✗	✗	✓ (3)	✗	
265/460-60	✗	✓ (1)	✗	✓ (1)	
330/575-60	✗	✓ (3)	✗	✓ (3)	
380/660-60	✗	✗	✓ (5)	✗	
440/760-60	✗	✗	✓ (4)	✗	
460/800-60	✗	✓ (2) (3)	✗	✓ (2) (3)	
220/440-60	✗	✗	✓ (3)	✗	
230/460-60	✗	✗	✗	✓ (3)	

(1) only for motor size ≤132
(2) only for motor size ≥160
(3) only for motor size ≤180
(4) only for motor size ≥200
(5) only for motor size 180
(6) only for motor size ≥100

Note: 50Hz without brake motors also have 60Hz data on the nameplate



The table below shows the wiring options available.

(F15)

Number of poles			Winding connection
2	**BE 80 … BE 160, BN 63 … BN 200**	**ME2 ... ME5, M05 ... M5**	Δ / Y (²)
4	**BXN 63 ... BXN 132, BX 63 ... BX 180** **BX 200LAK ... BX 355MCK** **BY 280K ... BY 355K** **BE 63 … BE 180, BN 56 … BN 200**	**MXN05 ... MXN40, MX05 ... MX5** **—** **—** **ME05 ... ME5, M05 ... M5**	
6	**BE 90 … BE 160, BN 63 … BN 200**	**ME3 ... ME5, M05 ... M5**	

(²) Motors with voltage in ratio 2 (ex. 230/460 - 60) will be equipped with a 9 pin terminal box with winding connection either Δ Δ/ Δ or YY / Y (except 6 pole BN 63 Δ / Y)

NOTE: For BXN and MXN motors refer to EVOX specific catalogue

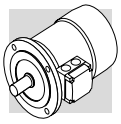
M7.2 Frequency

Rated output power BN / M for 60 Hz operation is shown in the following diagram.

(F16)

		2P		4P		6P	
		P_n [kW]	P_n [hp]	P_n [kW]	P_n [hp]	P_n [kW]	P_n [hp]
BN 27A	**-**	-	-	0.05	0.07	-	-
BN 27B	**-**	-	-	0.07	0.09	-	-
BN 27C	**-**	-	-	0.10	0.13	-	-
BN 44B	**-**	-	-	0.07	0.09	-	-
BN 44C	**-**	-	-	0.10	0.13	-	-
BN 56A	**-**	-	-	0.07	0.09	-	-
BN 56B	**M 0B**	-	-	0.10	0.13	-	-
BN 63A	**M 05A**	0.21	0.28	0.14	0.19	0.10	0.13
BN 63B	**M 05B**	0.30	0.40	0.21	0.28	0.14	0.19
BN 63C	**M 05C**	0.45	0.60	0.30	0.40	-	-
BN 71A	**-**	0.45	0.60	0.30	0.40	0.21	0.28
-	**M 1SC**	-	-	-	-	0.21	0.28
BN 71B	**M 1SD**	0.65	0.87	0.45	0.60	0.30	0.40
BN 71C	**M 1LA**	0.90	1.20	0.65	0.87	0.45	0.60
BN 80A	**-**	0.90	1.20	0.65	0.87	0.45	0.60
BN 80B	**M 2SA**	1.30	1.75	0.90	1.20	0.65	0.87
BN 80C	**M 2SB**	1.80	2.40	1.30	1.75	0.90	1.20
BN 90S	**-**	-	-	1.30	1.75	0.90	1.20
BN 90SA	**-**	1.80	2.40	-	-	-	-
BN 90SB	**-**	2.20	3.00	-	-	-	-
BN 90L	**-**	2.50	3.40	-	-	1.30	1.75
BN 90LA	**-**	-	-	1.80	2.40	-	-
BN 90LB	**-**	-	-	2.20	3.00	-	-

		2P		4P		6P	
		P_n [kW]	P_n [hp]	P_n [kW]	P_n [hp]	P_n [kW]	P_n [hp]
-	**M 3SA**	2.50	3.40	1.80	2.40	1.30	1.75
BN 100L	**M 3LA**	3.50	4.70	2.50	3.40	-	-
BN 100LA		-	-	-	-	1.80	2.40
BN 100LB	**M 3LB**	4.70	6.30	3.50	4.70	2.20	3.00
BN 100LC	**M 3LC**	-	-	4.70	6.30	-	-
-						2.50	3.40
BN 112M	**-**	4.70	6.30	4.70	6.30	2.50	3.40
BN 132S	**M 4SA**	-	-	6.50	8.70	3.50	4.70
BN 132SA		6.50	8.70	-	-	-	-
BN 132SB	**M 4SB**	8.70	11.70	-	-	-	-
BN 132M	**M 4LA**	11.00	15.00	-	-	-	-
BN 132MA		-	-	8.70	11.70	4.60	6.20
BN 132MB	**M 4LB**	-	-	11.00	15.00	6.50	8.70
BN 160MR	**M 4LC**	12.50	16.80	12.50	16.80	-	-
BN 160M	**-**	-	-	12.50	16.80	-	-
	M 5SA					8.60	11.50
BN 160MB	**M 5SB**	17.50	23.40	-	-	-	-
BN 160L		-	-	17.50	23.40	12.60	16.90
	M 5SC	21.50	28.80	-	-	-	-
BN 180M	**M 5LA**	24.50	32.80	21.50	28.80	-	-
BN 180L	**-**	-	-	25.30	33.90	17.50	23.40
BN 200L	**-**	-	-	34.00	45.50	-	-
BN 200LA	**-**	34.00	45.50	-	-	22.00	30.00



BXN / BX / BE / MXN / MX / ME motors are available at 60 Hz on a 4 pole configuration only, and their power rating is the same as their 50 Hz counterpart. Double speed BN / M motors supplied at 60 Hz will have an increase of nominal power, referred to 50 Hz, equal to 15%, whereas double speed BXN / BX / BE / MXN / MX / ME motors are not available. If a nominal power rating, equal to the normalised nominal power rating at 50 Hz, was requested to be on a nameplate of a motor meant to be voltage supplied at 60 Hz, the PN option shall be specified on the motor designation. Motors normally designed for a 50 Hz frequency may be used on a 60 Hz operating grid, but the related data shall be updated according to the following table. Motors designated for 50 Hz operation show on the nameplate also the values for 60 Hz operation (excluding motors in CUS execution and brake motors). See the following table.

(F17)

	50 Hz	**60 Hz**			
	V - 50 Hz	**V** - 60 Hz	**Pn** - 60 Hz	$\mathbf{M_n}$, $\mathbf{M_a/M_n}$ - 60 Hz	**n** [min^{-1}] - 60 Hz
BXN / MXN BX / MX BE / ME	**230/400 Δ/Y**	265 - 460 Δ Y	1	0.83	1.2
	400/690 Δ/Y	460 Δ			
BN / M	**230/400 Δ/Y**	220 - 240 Δ			
		380 - 415 Y			
	400/690 Δ/Y	380 - 415 Δ			
BN / M	**230/400 Δ/Y**	265 - 280 Δ	1.15	1	1.2
		440 - 480 Y			
	400/690 Δ/Y	440 - 480 Δ			

NOTE: For BXN and MXN motors refer to EVOX specific catalogue.

M7.3 Ambient temperature

Catalogue rating values are calculated for 50 Hz operation and for standard ambient conditions (temperature 40°C [104°F]; elevation ≤ 1000 m a.s.l.) as per the CEI EN 60034-1 Standards.
The motors can be used within the 40 - 60 °C [104 - 140 °F] temperature range with rated power output adjusted by factors given in the table below.

(F18)

Ambient temperature (°C)	40	45	50	55	60
Ambient temperature (°F)	104	113	122	131	140
Permitted power as a % of rated power	1.00	0.97	0.94	0.90	0.86

Should a derating factor higher than 15% apply please consult factory.

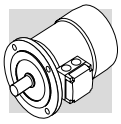
M7.4 50 HZ normalized power

PN

This option ensures the motor nameplate includes 50 Hz normalized power information even when the motor is designated for 60 Hz operation. The PN option is applied by default in the following cases:

- Standard 60 Hz Voltages: For 230/460V-60Hz and 330/575V-60Hz supplies, regardless of any certification options.
- With “CUS” Option: When the CUS option is selected in combination with the following voltages:
  - 220/440V-60Hz
  - 230/460V-60Hz
  - 240/480V-60Hz
  - 330/575V-60Hz

Duty Cycle Note: These rules apply regardless of the duty type. For instance, a motor configured as 240/480V-60Hz with “CUS” and S3 duty will maintain the same S3 power rating as its 50Hz equivalent by default.



M7.5 Motors for USA and Canada

CUS

CUS option is available in NEMA Design C execution for BN, BE, M, ME motors, and NEMA Design B for BX motors, with regards to the electrical features. The BXN and MXN motors are cURus certified as standard. Motors are certified in compliance with CSA (Canadian Standard) C22.2 N° 100 and UL (Underwriters Laboratory) UL 1004-1 standards, as stated on UL file E308649.
All powers BN-BE-M-ME and BXN-MXN with powers between 0,12 and 0,55 kW [0,18 and 0,75 hp] included motors nameplates show the below marks:

S1 continuous duty BXN/MXN ≥ 0,75 kW [1 hp] and BX/MX ≥ 0,75 kW [1 hp] motors nameplates show the below marks and are certified in compliance with the energy efficiency standards in effect in the USA and Canada, respectively provided by DOE (10 CFR Part 431) and NRCan (Energy Efficiency Regulations), tested according to CSA C390 standard.

ENERGY

CC320B

BX 100 motors are available for the USA only and not for Canada, and the related marks reported on the nameplates are the following:

ENERGY

CC320B

BX≥200K motors shows on nameplate the logo reported below and are compliant to energy efficiency regulations of USA and Canada, respectively established from DOE (10 CFR Part 431) and from NRCan (Energy Efficiency Regulations), and tested in accordance to CSA C390.

CERTIFIED SAFETY US-CA E473868

CUS option is selectable in combination to U1 only for BX≥200K.
As specified under the ANSI C84.1 standard, the US power mains voltages and the corresponding rated voltages to be specified for the motor are indicated in the following table:

(F19)

Frequency	Mains voltage	V_{mot}
60 Hz	208 V	**200 V**
	240 V	**230 V**
	480 V	**460 V**
	600 V	**575 V**

BX motor with CUS option are available with the following nominal Voltage/Frequency combinations:

(F20)

	V_{mot}
BX ≤ 132	265/460 - 60 Hz
BX ≤ 180	230/460 - 60 Hz 330/575 - 60 Hz
BX ≥ 160 BX ≥ 200K BY ≥ 280K	460/800 - 60 Hz

CUS option is applicable onto 50 Hz operating motors as well (motors BX, MX excluded).

Motors with voltage in ratio 2 (e.g. 230/460-60; 220/440-60) feature, as standard, a 9-stud terminal board. For same executions, as well as for 575V-60Hz executions, as well as for 575V-60Hz supply, the nominal rating is coincident with the correspondent 50Hz rating.
For DC brake motors type BN_FD, the rectifi er is connected to a single-phase 230 VAC supply volt- age in the motor terminal box.
Brake power supply for brake motors is as follows:

BN_FD **M_FD**
Connected to terminal box 1~230V c.a.

M7.6 Motors certified for India

BIS

Low voltage motors ≥0.1 2kW [0.18 hp] manufactured or imported in India must comply with the requirements of the Bureau of Indian Standards (BIS), and their nameplates bear the ISI mark.
BE, BX, BXN motors with power up to 7.5 kW [10 hp] included, are avaiable with the above mentioned certification and, when BIS option is selected, are provided with the nameplate reporting the following logo:

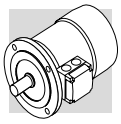
M7.7 China Compulsory Certification

CCC

Electric motors destined for sale in the People's Republic of China must be certified under the CCC (China Compulsory Certification) system. The following motors are available with CCC certification:
- BN/M motors under 0.12 kW [0.18 hp] rated for S1 continuous duty.
- BN/M motors up to 7 Nm [62 lb•in] rated for S3 discontinuous duty cycle only.

These motors will show the following CCC mark:

CCC option is not available for servo - ventilated motors.



M7.8 Motor certified for China (China Energy Label)

CEL

In addition to the mandatory CCC certification specified above, low voltage motors ≥0.75 kW [1 hp] manufactured or imported in China must be certified and registered by the label office and provided with an energy label certifying they meet the energy efficiency levels as defined in GB18613-2012.
BX motors with power from 2.2 to 355 kW [3 to 476 hp] included are available with the above mentioned certification and, when CEL option is selected, are provided with the following sticker applyed to the motor:



Note: The CEL (China Energy Label) is not needed for discontinuous duty cycle and in case of servo-ventilated motors.

BX motors with CEL option are available with the following nominal Voltage/Frequency combinations:

(F21)

	V_{mot}
BX ≥ 200	380/660 - 50 Hz
100 ≤ BX ≤ 132	230/400 - 50 Hz
160 ≤ BX ≤ 180	400/690 - 50 Hz

M7.9 Motor certified for global motor

CN

With the CN option, BXN and MXN motors can be sold in the most important markets worldwide such as Europe, UK, USA, Canada, China, Russia, Australia and New Zealand.
In detail, the motor will bear the CE, UKCA, UL, CCC and, where required, CEL labelling on the nameplate. The motors also comply with EAC and EECA requirements.
This option is available in the following winding/power combinations:

(F22)

	Size	Power	Service Duty	Winding	
BXN	63MA to 80MA	0.12 to 0.55 kW [0.18 to 0.75 hp]	S1	WD1 - WD3*	
MXN	05MA to 20MA				
BXN	80MB to 112M	0.75 to 4 kW [1 to 5.5 hp]	S1	WD1	
MXN	20MB to 35M				
BXN	132S to 132M	5.5 to 7.5 kW [7.5 to 10 hp]	S1	WD2	
MXN	40S to 40M				

* Brazilian certification is standard on the WD3 winding only, and additional INMETRO labelling is provided.

M7.10 Motors certified for Brazil

NBR

Brazilan laws regulamentates the manufacturing and importation of electric motor in the country. These have to be approved by NBR trough a declaration of the motor efficiency level at INMETRO. Motor compliant to NBR must report the declared efficiency value and have to be provided with a specific NBR nameplate and the additional mark shown in picture below.



The NBR option is available for motors:
- BX with powers from 0.75 to 22 kW [1 to 30 hp] included
- BX… K with powers from 30 to 355 kW [40 to 476 hp] included

BX motors with NBR option are available with the following nominal Voltage/Frequency combinations:

(F23)

	V_{mot}
BX90SR ... BX160	220/380 - 60 Hz 220/440 - 60 Hz
BX 180	220/380 - 60 Hz 220/440 - 60 Hz 380/660 - 60 Hz
BX ≥ 200K	440/760 - 60 HZ

M7.11 Motors certified for Australia

EECA

Electric motor covered by Australian/NewZeland's energy regulation must be listed in the national database Energyratig. Mootr with EECA option are registered in the previously mentioned database and can be sold in Australia and New Zeland.
EECA option is available for BX ... K motor with power from 30 to 355 kW [40 to 476 hp] included.

BX motors with EECA option are available with the following nominal Voltage/Frequency combinations:

(F24)

	V_{mot}
BX ≥ 200K	400/690 - 50 Hz

M7.12 Insulation class

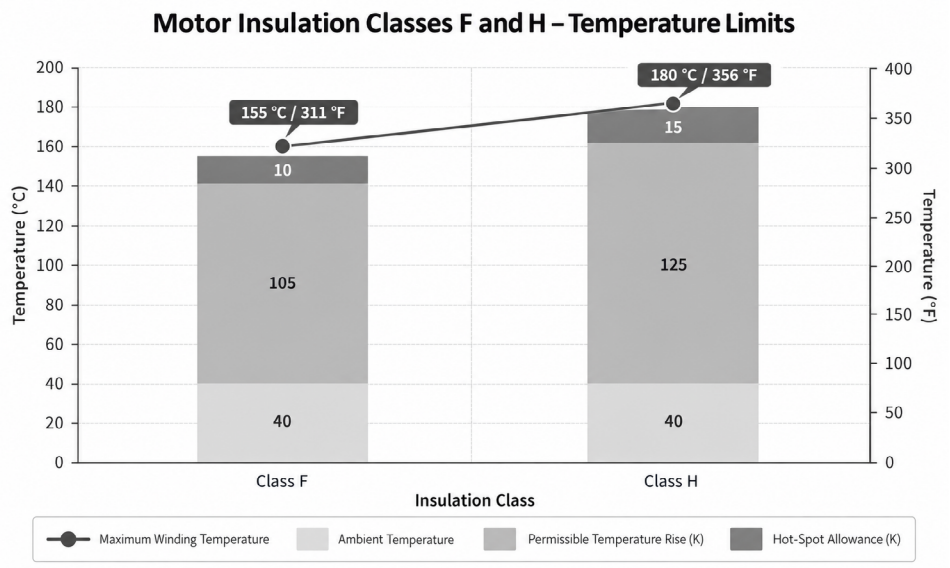
CL F

Bonfiglioli motors use class F insulating materials (enamelled wire, insulators, impregnation resins) as compare to the standard motor. In standard motors, stator windings over temperature normally stays below the 80 K limit corresponding to class B over temperature. A careful selection of insulating components makes the motors compatible with tropical climates and normal vibration. For applications involving the presence of aggressive chemicals or high humidity, contact Bonfiglioli Engineering for assistance with product selection.

CL H

Motors manufactured in insulation class **H** are available at request.

(F26)



M7.13 Type of duty

Unless otherwise specified, catalogue motor power refers to continuous duty S1. Any operating conditions other than S1 duty must be identified in accordance with duty cycle definitions laid down in standards CEI EN 60034-1. For duty cycles S2 and S3, the power increase co-efficient reported in the following table may be used. Please note that the table provided below applies to single-speed motors. As an alternative to S1 continuous duty, one of the following values can be specified at the product configuration stage (single speed motors only): S2, S3. The motor nameplate will be marked with an increased power rating to suit the type of duty, and with specific electrical data and a duty type of S2-30 min, S3-70% respectively.

BN and M motors can be configured for operation at duty cycle S2(30min) and S3(70%) as standard option, Other requests which are different in terms of % or min are considered a speciality.
BXN and MXN motors can be configured as standard at S2=10min, S2=30min, S2=60min or S3=25%, S3=40%, S3=70%.

(F25)

	Type of duty						
	S2			**S3 ***			**S4 - S9**
	Duration (min)			Intermittence (I)			
	10	**30 (*)**	**60**	**25%**	**40%**	**70% (*)**	Contact us **
f_m	1.35	1.15	1.05	1.25	1.15	1.1	

* Cycle duration must, in any event, be equal to or less than 10 minutes; if this time is exceeded, please contact our Technical Service.
** For any duty cycle different from S1, S2-30min and S3-70% please contact Bonfiglioli's Technical Service.
(*) Default values from options (tab. F05).

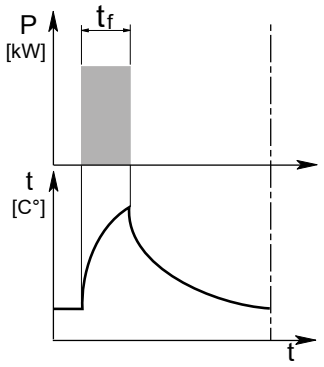
M7.13.1 Cyclic duration factor:

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \qquad (01)$$

t_f = work time under constant load
t_r = rest time

M7.13.2 Limited duration duty S2

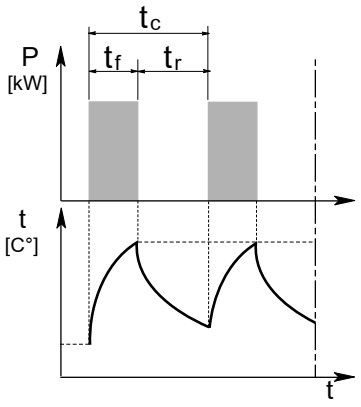
This type of duty is characterized by operation at constant load for a limited time, which is shorter than the time required to reach thermal equilibrium, followed by a rest period of sufficient duration to restore ambient temperature in the motor.



M7.13.3 Periodical intermittent duty S3:

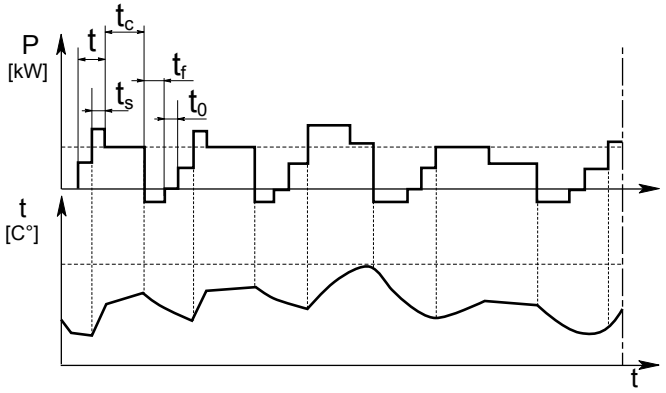
This type of duty is characterized by a sequence of identical operation cycles, each including a constant load operation period and a rest period.

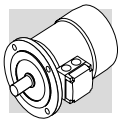
For this type of duty, the starting current does not significantly influence overtemperature.



M7.13.4 Duty with non-periodical load and speed variations S9:

This type of duty is characterized by a load and speed variation in which the motor operates generally non-periodically within the permissible operating range. This duty includes frequent overloads which may greatly exceed the full loads.





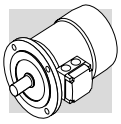
M7.14 Inverter-controlled motors

The electric motors Bonfiglioli may be used in combination with PWM inverters with rated voltage at transformer input up to 500 V.Standard motors use a phase insulating system with separators, class 2 enamelled wire and class H impregnation resins (1600V peak-to-peak voltage pulse capacity and rise edge t_s > 0.1µs at motor terminals). The Bonfiglioli electric motors may be continuously operated (S1 duty) in “turn-down” mode, i.e. at frequencies lower than the rated frequency, hereafter also called “base frequency” - fb, in ratios fb/f up to 10 : 1, according to the below reported tables. Typical torque/speed curves referred to S1 duty for motors with base frequency 50 or 60Hz is are reported in the table below.

(F27)

INVERTER OPERATION - BX MOTORS TURN-DOWN DATA

4 pole 1800 min^{-1} S1		Inverter operation Motor data 10:1 (60-6Hz) CONSTANT TORQUE					Inverter operation Motor data 5:1 (60-12Hz) CONSTANT TORQUE					60HZ grid supply - Motor data										
IEC Motor Type	Compact Motor Type	T_6		N_6	P_6		T_{12}		n_{12}	P_{12}		P_n		n	η	T_n	In 230V	In 460V	cosφ	Is/In	Jm	kVA Code Letter
		[Nm]	[lb-in]	[rpm]	[HP]	[kW]	[Nm]	[lb-in]	[rpm]	[HP]	[kW]	[HP]	[kW]	[rpm]	%	[lb·in]	[A]	[A]		p.u.	[lb·ft2]	
BX 90SR 4	**MX 2SB 4**	4.00	35.4	54	0.03	0.02	6.13	54.25	176	0.15	0.11	1.0	0.75	1755	85.5	36.3	2.96	1.48	0.73	8.0	0.064	L
BX 90S 4		5.28	46.7	54	0.04	0.03	7.73	68.42	195	0.21	0.16	1.5	1.1	1740	86.5	53.1	4.30	2.15	0.74	8.2	0.064	K
BX 90LA 4		7.25	64.2	45	0.05	0.03	9.88	87.45	234	0.32	0.24	2.0	1.5	1735	86.5	73.5	5.82	2.91	0.75	7.4	0.074	K
	MX 3SA 4	5.50	48.7	57	0.04	0.03	8.25	73.02	212	0.25	0.18	1.5	1.1	1755	86.5	53.1	4.38	2.19	0.73	7.9	0.083	L
	MX 3SB 4	7.97	70.5	69	0.08	0.06	10.84	95.94	270	0.41	0.31	2.0	1.5	1755	86.5	72.6	5.92	2.96	0.72	8.5	0.102	L
BX 100LA 4	**MX 3LA 4**	13.9	123.0	87	0.171	0.127	15.8	140.0	294	0.653	0.487	3.0	2.2	1760	89.5	105.3	8.8	4.4	0.71	9.9	0.173	N
BX 100LB 4	**MX 3LB 4**	17.1	151.2	76	0.183	0.137	21.5	190.0	270	0.814	0.607	4.0	3.0	1750	89.5	145.2	11.8	5.9	0.71	9.1	0.173	M
BX 112M 4		22.5	199.4	95	0.301	0.224	26.7	236.3	292	1.094	0.816	5.0	3.7	1760	89.5	177.0	13.4	6.7	0.77	10.4	0.308	M
	MX 4SA 4	21.5	190.6	103	0.311	0.232	27.6	244.1	303	1.172	0.874	5.0	3.7	1770	89.5	177.0	13.2	6.6	0.78	9.9	0.534	M
BX 132SB 4	**MX 4SB 4**	41.4	366.0	116	0.674	0.503	44.5	393.8	317	1.979	1.475	7.5	5.5	1770	91.7	265.5	19.8	9.9	0.76	10.7	0.973	N
BX 132MA 4	**MX 4LA 4**	48.9	432.8	124	0.848	0.632	57.0	504.7	312	2.498	1.863	10.0	7.5	1770	91.7	362.9	26.8	13.4	0.76	11.0	0.973	N
BX 160MA 4	**MX 5SA 4**	52.5	464.9	111	0.819	0.611	65.9	583.5	306	2.832	2.112	12.5	9.2	1770	92.4	442.5	31.2	15.6	0.80	9.1	1.542	L
BX 160MB 4	**MX 5SB 4**	60.1	531.8	127	1.074	0.801	75.4	667.2	308	3.261	2.432	15.0	11.0	1770	92.4	522.2	36.4	18.2	0.82	9.3	1.851	L
BX 160L 4	**MX 5LA 4**	81.2	718.6	137	1.564	1.167	96.6	855.2	317	4.297	3.204	20.0	15.0	1770	93.0	716.9	49.0	24.5	0.81	10.9	2.112	M
BX 180M 4		143.5	1270.4	138	2.790	2.080	176.6	1562.7	315	7.808	5.822	25.0	18.5	1780	93.6	876.2	57.2	28.6	0.85	13.0	3.702	N
BX 180L 4		138.6	1226.3	145	2.819	2.102	160.3	1418.7	325	7.307	5.449	30.0	22.0	1775	93.6	1044.4	66.2	33.1	0.87	11.5	3.939	M



(F28)

INVERTER OPERATION - BE MOTORS TURN-DOWN DATA																			
4 pole 1800 min^{-1} S1	Inverter operation Motor data 10:1 (60-6Hz) CONSTANT TORQUE				Inverter operation Motor data 5:1 (60-12Hz) CONSTANT TORQUE				60HZ grid supply - Motor data										
Type	T_6	N_6	P_6		T_{12}	n_{12}	P_{12}		P_n		n	η	T_n	In 230V	In 460V	cosφ	Is/In	Jm	kVA Code Letter
	[lb·in]	[rpm]	[HP]	[kW]	[lb·in]	[rpm]	[HP]	[kW]	[HP]	[kW]	[rpm]	%	[lb·in]	[A]	[A]		p.u.	[lb·ft2]	
BE 80B 4	36.3	125	0.072	0.054	36.3	305	0.176	0.131	1	0.75	1745	82.5	36.3	2.92	1.46	0.78	7.6	0.066	K
BE 90S 4	53.4	120	0.102	0.076	53.4	300	0.254	0.190	1.5	1.1	1740	84	53.4	4.50	2.25	0.73	7.7	0.066	L
BE 90LA 4	65.5	120	0.125	0.093	72.9	300	0.347	0.259	2	1.5	1740	84.5	72.9	6.20	3.10	0.73	7.1	0.081	K
BE 100LA 4	99.0	125	0.196	0.146	106.6	305	0.516	0.385	3	2.2	1745	87.5	106.6	8.40	4.20	0.76	7	0.128	J
BE 100LB 4	120.9	115	0.221	0.165	146.1	295	0.684	0.510	4	3	1735	87.5	146.1	11.80	5.90	0.76	7	0.145	K
BE 112M 4	145.8	130	0.301	0.224	178.7	310	0.879	0.655	5	3.7	1750	87.5	178.7	13.20	6.60	0.80	7.8	0.249	K
BE 132S 4	228.5	140	0.507	0.378	264.1	320	1.341	1.000	7.5	5.5	1760	89.5	264.1	18.60	9.30	0.83	8.7	0.641	K
BE 132MA 4	301.9	140	0.671	0.500	360.2	320	1.829	1.364	10	7.5	1760	89.5	360.2	25.40	12.70	0.83	8	0.757	K
BE 132MB 4	370.9	140	0.824	0.614	441.8	320	2.243	1.673	12.5	9.2	1760	90	441.8	31.20	15.60	0.82	8.3	0.854	K
BE 160M 4	451.1	145	1.038	0.774	526.7	325	2.716	2.025	15	11	1765	91	526.7	37.40	19	0.81	7.7	1.542	J
BE 160L 4	543.1	150	1.292	0.964	645.8	330	3.381	2.522	20	15	1770	90.5	716.3	51.00	25.5	0.81	7.1	1.875	J
BE 180M 4	663.6	145	1.527	1.139	789.2	325	4.070	3.035	25	18.5	1765	91.9	885.9	60.60	30.3	0.83	7.3	2.966	H
BE 180L 4	757.8	150	1.803	1.345	901.2	330	4.718	3.519	30	22	1770	92.5	1050.5	72.00	36.0	0.83	8.1	3.916	J

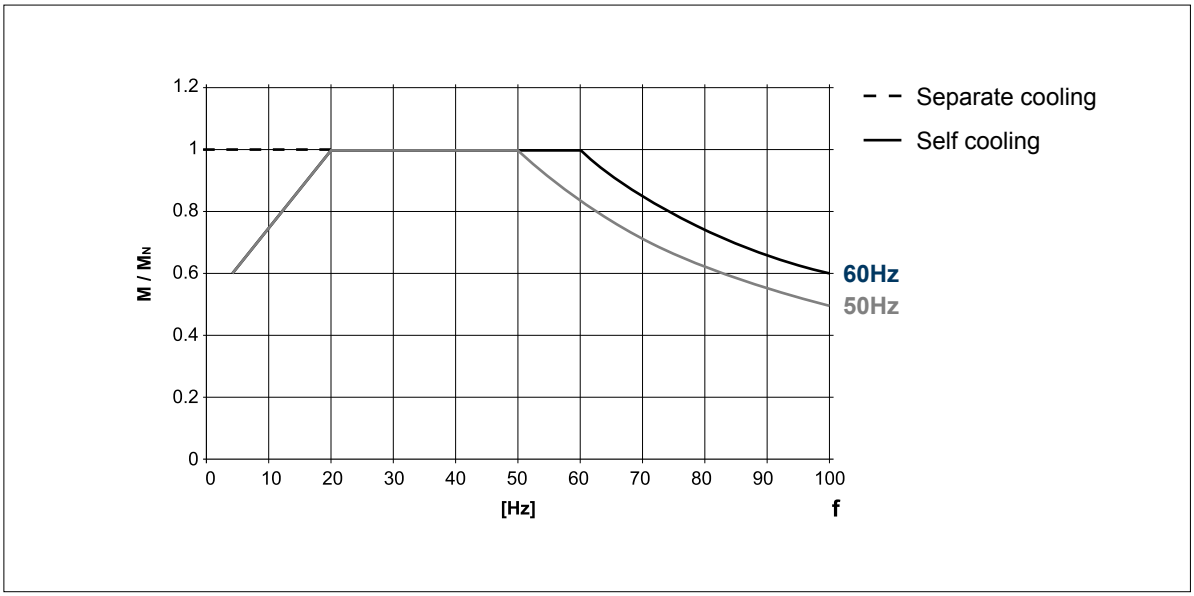
(F29)

INVERTER OPERATION - BN MOTORS TURN-DOWN DATA																			
4 pole 1800 min^{-1} S1	Inverter operation Motor data 10:1 (60-6Hz) CONSTANT TORQUE				Inverter operation Motor data 5:1 (60-12Hz) CONSTANT TORQUE				60HZ grid supply - Motor data										
Type	T_6	N_6	P_6		T_{12}	n_{12}	P_{12}		P_n		n	η	T_n	In 230V	In 460V	cosφ	Is/In	Jm	kVA Code Letter
	[lb·in]	[rpm]	[HP]	[kW]	[lb·in]	[rpm]	[HP]	[kW]	[HP]	[kW]	[rpm]	%	[lb·in]	[A]	[A]		p.u.	[lb·ft2]	
BN 56A 4	3.0	50	0.0024	0.0018	3.0	230	0.011	0.008	0.08	0.06	1670	53	3.0	0.52	0.26	0.55	2.9	0.0036	J
BN 56B 4	4.1	50	0.0033	0.0024	4.5	230	0.017	0.012	0.12	0.09	1670	59	4.5	0.74	0.37	0.52	2.8	0.0036	H
BN 63A 4	5.1	30	0.0024	0.0018	6.1	210	0.020	0.015	0.16	0.12	1650	55	6.1	0.86	0.43	0.64	3.1	0.0048	H
BN 63B 4	7.2	50	0.0057	0.0043	9.4	230	0.034	0.026	0.25	0.18	1670	58	9.4	1.36	0.68	0.59	3.1	0.0055	H
BN 71A 4	9.5	80	0.012	0.009	12.2	260	0.050	0.038	0.33	0.25	1700	64	12.2	1.30	0.65	0.74	4.3	0.0138	H
BN 71B 4	14.3	80	0.018	0.014	18.5	260	0.076	0.057	0.5	0.37	1700	66	18.5	1.94	0.97	0.73	4.5	0.0164	H
BN 80A 4	21.7	90	0.031	0.023	27.6	270	0.12	0.088	0.75	0.55	1710	73	27.6	2.56	1.28	0.75	4.9	0.0356	H
BN 80B 4	28.8	100	0.046	0.03	36.6	280	0.16	0.12	1	0.75	1720	78	36.6	3.20	1.60	0.75	6.2	0.0482	J
BN 90S 4	40	100	0.063	0.05	47	280	0.21	0.16	1.5	1.1	1720	78	55	4.86	2.43	0.74	5.7	0.0499	J
BN 90LA 4	55	100	0.087	0.06	65	280	0.29	0.22	2	1.5	1720	81	73	6.24	3.12	0.74	6.6	0.0665	K
BN 90LB 4	65	100	0.103	0.08	77	280	0.34	0.26	2.5	1.85	1720	80.4	92	7.60	3.80	0.76	6.5	0.0712	K
BN 100LA 4	76	100	0.120	0.09	90	280	0.40	0.30	3	2.2	1720	81	110	9.6	4.8	0.73	5.5	0.096	H
BN 100LC 4	104	110	0.182	0.14	124	290	0.57	0.43	5	3.7	1730	84	182	15	7.5	0.74	5.6	0.145	K
BN 112M 4	147	110	0.257	0.19	175	290	0.81	0.60	5.5	4	1730	85	200	16	8	0.76	7.0	0.233	K
BN 132S 4	195	110	0.340	0.25	232	290	1.07	0.80	7.5	5.5	1730	84	273	20	10	0.84	6.3	0.506	H
BN 132MA 4	253	120	0.481	0.36	300	300	1.43	1.07	10	7.5	1740	85	362	26.2	13.1	0.84	6.1	0.641	H
BN 132MB 4	297	130	0.612	0.46	353	310	1.74	1.29	12.3	9.2	1750	86.4	443	33.0	16.5	0.81	6.8	0.757	J
BN 160MR 4	350	120	0.667	0.50	416	300	1.98	1.48	15	11	1740	88	543	38.8	19.4	0.81	6.5	0.855	H
BN 160L 4	488	130	1.007	0.75	581	310	2.86	2.13	20	15	1750	90	720	49.6	24.8	0.84	5.8	1.544	G
BN 180M 4	604	140	1.342	1.00	718	320	3.65	2.72	25	18.5	1760	90	895	62.6	31.3	0.83	5.8	1.88	G
BN 180L 4	699	140	1.552	1.16	831	320	4.22	3.15	30	22	1760	89.6	1074	78.0	39.0	0.79	6.8	2.97	H
BN 200L 4	879	140	1.954	1.46	1046	320	5.31	3.96	40	30	1760	90.5	1432	104.0	52.0	0.80	8.4	3.92	K

Key: T_6 Torque at 6 Hz n_6 Speed at 6 Hz P_6 Output power at 6 Hz
T_{12} Torque at 12 Hz n_{12} Speed at 12 Hz P_{12} Output power at 12 Hz

On self - ventilated motors (IC411) the cooling capacity may be impaired at frequencies lower than 60 Hz due to the lower speed, thus the allowed torque is decreased accordingly, as per the above tables. The use of thermal protective devices (see the options section in this catalogue) is strongly recommended when a 5:1 (or higher, up to 10:1) turn down is operated, in order to guarantee the motor safety in case of accidental overheating. For a more effective cooling, even at the lowest frequencies, motors equipped with a forced ventilation system (i.e. servo fan) may be also available - please contact the Bonfiglioli Technical Department for more details.
For the operation above the base frequency fb, upon reaching the maximum output voltage of the inverter, the motor enters a constant - power field of operation also called “field weakening” range, and the shaft torque drops with ratio f / fb. As the motor peak torque decreases with a ratio (f / fb)2, the allowed overload capacity of the motor must be reduced progressively above a certain speed, depending on the motor.

(F30)



The following table reports the mechanical speed limit for motors operating above rated frequency:

(F31)

		**n** [min^{-1}]		
		2p	**4p**	**6p**
≤ BE 112 - BN 112	**ME2, ME3 M05 ... M3**	5200	4000	3000
≥ BE 132 - BN 132	**ME4, ME5 M4, M5**	4500	4000	3000
BXN 63 ... BXN 132	**MXN 05 ... MXN 35**		4000	
BX 63 ... BX 180	**MX05 ... MX5**		4000	
BX 200K			4500	
BX 225K ... BX 250K			3600	
BX 280K, BY 280K			2000	
BX 315K, BX 355K			2200	

Above rated speed, motors generate increased mechanical vibration and fan noise. Class B rotor balancing is highly recommended in these applications. Installing a separate supply fan cooling may also be advisable. Remote-controlled fan and brake (if fitted) must always be connected direct to mains power supply.

M7.15 Permissible starts per hour, Z

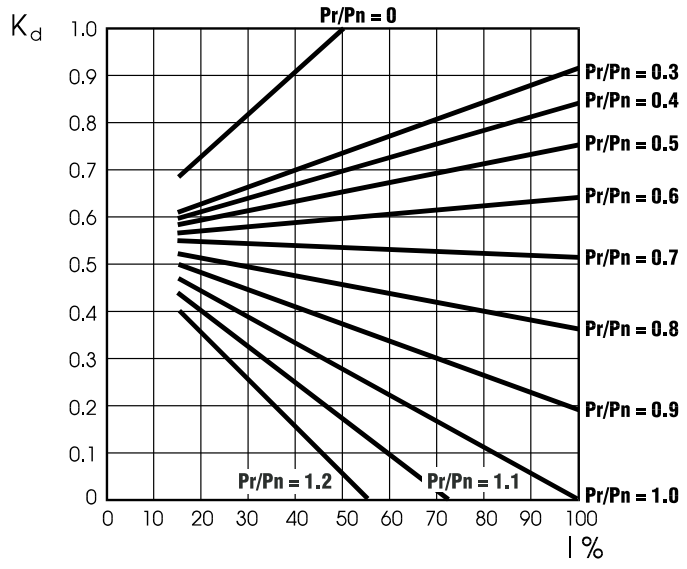
The rating charts of brakemotors lend the permitted number of starts Z0, based on 50% intermittence and for unloaded operation.
The catalogue value represents the maximum number of starts per hour for the motor without exceeding the rated temperature for the insulation class F.
To give a practical example for an application characterized by inertia Jc, drawing power Pr and requiring mean torque at start-up ML the actual number of starts per hour for the motor can be calculated approximately through the following equation:

$$Z = \frac{Z_0 \cdot K_c \cdot K_d}{K_J} \qquad (02)$$

where:

$K_J = \frac{J_m + J_c}{J_m}$	inertia factor
$K_c = \frac{M_a - M_L}{M_a}$	torque factor
$K_d =$	load factor, see the following table

(F32)



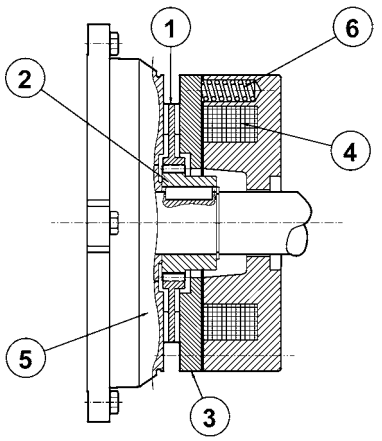
If actual starts per hour is within permitted value (Z) it may be worth checking that braking work is compatible with brake (thermal) capacity Wmax also given in tables (F38), (F41) and dependent on the number of switches (c/h).

M8 BRAKE MOTORS - DIRECT CURRENT BRAKE FOR BX-BE-BX | MX-ME-M

M8.1 Operation

Versions with incorporated brake use spring-applied DC (FD option) brakes.
All brakes are designed to provide fail-safe operation, meaning that they are applied by spring-action in the event of power failure.

(F33)



Key:
① brake disc
② disc carrier
③ pressure plate
④ brake coil
⑤ motor rear shield
⑥ brake springs

When voltage is interrupted, pressure springs push the armature plate against the brake disc. The disc becomes trapped between the armature plate and motor shield and stops the shaft from rotation.
When the coil is energized, a magnetic field strong enough to overcome spring action attracts the armature plate, so that the brake disc – which is integral with the motor shaft – is released.

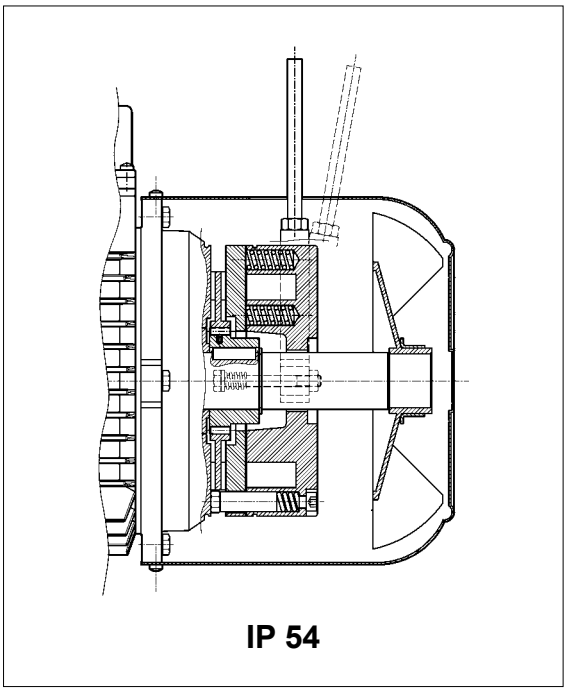
M8.2 Most significant features

- High braking torques (normally Mb ≈ 2 Mn), braking torque adjustment.
- Steel brake disc with double friction lining (low-wear, asbestos-free lining).
- Hexagonal seat on motor shaft fan end (N.D.E.) for manual rotation (not compatible with options PS, RC*, TC*, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6).
- Manual release lever (options R and RM for FD).
- Corrosion-proof treatment on all brake surfaces.
- Insulation class F.

(*) Not accessible without removing the fan cover

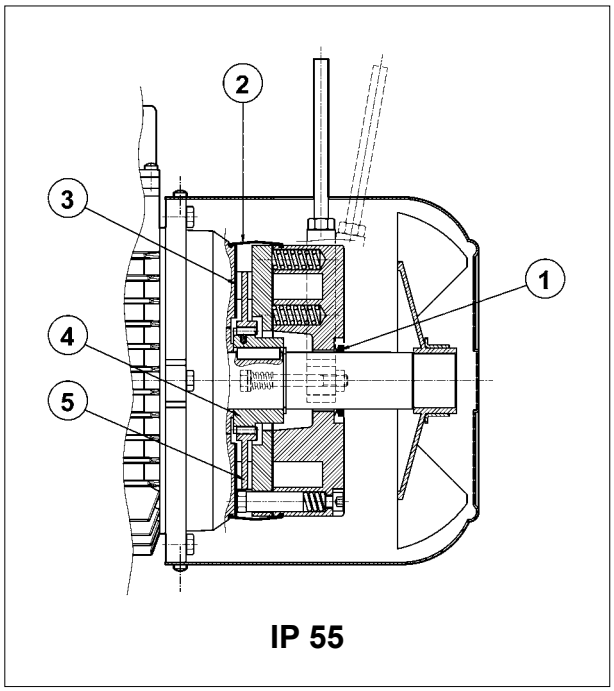
Frame sizes: BX 63 ... BX 180, BX200LAK … BX 355MCK - BE 63 ... BE 180L - BN 63 … BN 200L / MX05 ... MX5 - ME05 ... ME5 - M05 ... M5

(F34)



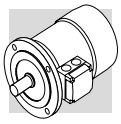
IP 54

(F35)



IP 55

Direct current toroidal-coil electromagnetic brake bolted onto motor shield. Preloading springs provide axial positioning of magnet body.
Brake disc slides axially on steel hub shrunk onto motor shaft with anti-vibration device.
Brake torque factory setting is indicated in the corresponding motor rating charts. Braking torque may be modified by changing the type and/or number of springs.
At request, motors may be equipped with manual release lever with automatic return (**R**) or system for holding brake in the released position (**RM**).
See variant at paragraph “BRAKE RELEASE SYSTEMS” for available release lever locations.
FD brakes ensure excellent dynamic performance with low noise. DC brake operating characteristics may be optimized to meet application requirements by choosing from the various rectifier/power supply and wiring connection options available.
For applications involving lifting and/or high hourly energy dissipation, contact Bonfiglioli’s Technical Service.



M8.3 Degree of protection

The standard protection degree for BN - M, BE - ME, BX≤180 and MX is IP54, while for BX...K200 standard protection degree is IP55.
BN - M, BE - ME and BX≤180 - MX brakemotor with a standard protection degree IP54 can be requested with a protection degtree IP55. If **IP55** is selected the following construction variants will be applied:

① V-ring at N.D.E. of motor shaft
② dust and water-proof rubber boot
③ stainless steel ring placed between motor shieldand brake disc
④ stainless steel hub
⑤ stainless steel brake disc

M8.4 FD brake power supply

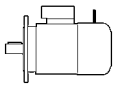
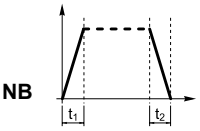
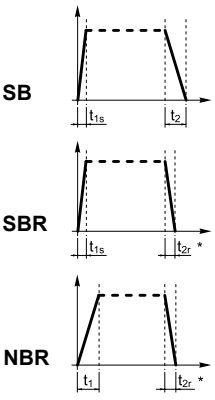
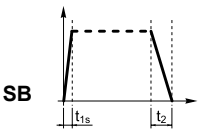
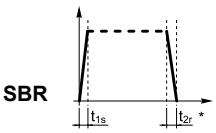
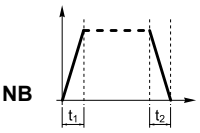
A rectifier accommodated inside the terminal box feeds the DC brake coil. Wiring connection across rectifier and brake coil is performed at the factory.
Brake power supply voltage V_B is as indicated in the following table, regardless of mains frequency:

(F36)

FD brake supply voltages				
Brake power supply voltage V	FD brake			
	Power supply from the motor with rectifier NB|SB	Power sopply from the motor with rectifier NBR|SBR	Separate power supply with rectifier	Power supply without rectifier
24	✗	✗	✗	✓
100	✗	✗	✗	✓
110	✗	✗	✓	✗
115	✗	✗	✓	✗
120	✗	✗	✓	✗
127	✗	✗	✓	✗
180	✗	✗	✗	✓
208	✓	✗	✓	✗
220	✓	✗	✓	✗
230	✓	✓	✓	✓
240	✓	✗	✓	✗
255	✓	✗	✗	✗
265	✓	✗	✗	✗
280	✓	✗	✗	✗
290	✓	✗	✗	✗
330	✓	✗	✗	✗
380	✓	✗	✓	✗
400	✓	✓	✓	✗
415	✓	✗	✓	✗
440	✓	✗	✓	✗
460	✓	✗	✓	✗
480	✓	✗	✓	✗
500	✓	✗	✓	✗

The diode half-wave rectifier (VDC ≈ 0,45 x VAC) is available in versions **NB, SB, NBR** e **SBR**, as detailed in the table below:

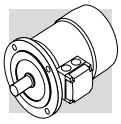
(F37)

		brake	~ / ⎓	
			standard	on request
BX 63 - BE 63 - BN 63	**MX05 - ME05 - M05**	FD 02		
BX 71 - BE 71 - BN 71	**MX1 - ME1 - M1**	FD 03 FD 53		
BX 80 - BE 80 - BN 80	**MX2 - ME2 - M2**	FD 04		
BX 90S - BE 90S - BN 90S	**—**	FD 14		
BX 90L - BN 90L	**—**	FD 05		
BX 100 - BE 100 - BN 100	**MX3 - ME3 - M3**	FD 15		
—		FD 55		
BX 112 - BE 112 - BN 112	**—**	FD 06S		
BX 132 - BE 132 - BN 132 - BN 160MR	**MX4 - ME4 - M4**	FD 56 FD 06 FD 07		
BX 160 - BE 160L - BN 160L - BN 180M	**MX5 - ME5 - M5**	FD 08		
BX 180 - BE 180L - BN 180L - BN 200M	**—**	FD 09		
BX 200LAK	**—**	FD 8		⊖
BX 225SAK - BX 225SBK	**—**	FD 9		
BX 250MAK	**—**	FD 10		
BX 280SAK - BX 315SAK	**—**	FD 1000		
BX 315SBK - BX 315SCK	**—**	FD 1600		
BX 355SAK - BX 355MCK	**—**	FD 2500	⊖	

Rectifier **SB** with electronic energizing control over-energizes the electromagnet upon power-up to cut brake release response time and then switches to normal half-wave operation once the brake has been released.

Use of the **SB** rectifier is mandatory in the event of:
- high number of operations per hour
- reduced brake release response time
- brake is exposed to extreme thermal stress

Rectifiers **NBR** or **SBR** are available for applications requiring quick brake intervention (braking condition reinstatement) response.
These rectifiers complement the **NB** and **SB** types as their electronic circuit incorporates a static switch that de-energizes the brake quickly in the event voltage is missing.
This arrangement ensures short brake release response time with no need for additional external wiring and contacts.
Optimum performance of rectifiers **NBR** and **SBR** is achieved with separate brake power supply.



M8.5 Performance Table – FD DC Brake

The table below reports the technical specifications of DC brakes FD.

(F38)

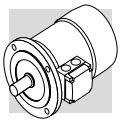
Brake	Brake torque M_b [Nm]			Release		Braking		W_{max} per brake operation			W	P_b
	6 springs	4 springs	2 springs	t_1	t_{1s}	t_2	t_{2c}	10 s/h	100 s/h	1000 s/h		
	Nm	Nm	Nm	[ms]	[ms]	[ms]	[ms]	[J]	[J]	[J]	[MJ]	[W]
FD02	-	3,5	1,75	30	15	80	9	4.500	1.400	180	15	17
FD03	5	3,5	1,75	50	20	100	12	7.000	1.900	230	25	24
FD53	7,5	5	2,5	60	30	100	12	7.000	1.900	230	25	24
FD04	15	10	5	80	35	140	15	10.000	3.100	350	30	33
FD14	15	10	5	80	35	140	15	10.000	3.100	350	30	33
FD05	40	26	13	130	65	170	20	18.000	4.500	500	50	45
FD15	40	26	13	130	65	170	20	18.000	4.500	500	50	45
FD06S	60	40	20	-	80	220	25	20.000	4.800	550	70	55
FD56	-	75	37	-	90	250	20	29.000	7.400	800	80	65
FD06	-	100	50	-	100	250	20	29.000	7.400	800	80	65
FD07	150	100	50	-	120	200	25	40.000	9.300	1.000	130	65
FD08*	250	200	170	-	140	350	30	60.000	14.000	1.500	230	100
FD09**	400	300	200	-	200	450	40	70.000	15.000	1.700	230	120
FD8	400	400	400	176	78	236	-	65.000	7.000	650	-	85
FD9	600	600	600	324	138	176	-	12.000	12.000	1.200	-	100
FD10	800	800	800	480	194	172	-	100.000	16.000	2.000	-	150
FD1000	1.000	1.000	1.000	252	-	375	-	220.000	27.000	2.700	-	300
FD1600	1.600	1.600	1.600	366	-	498	-	230.000	35.000	3.500	-	340
FD2500	2.500	2.500	2.500	660	-	880	-	590.000	61.000	6.100	-	530

* brake torque values obtained with 9, 7 and 6 springs, respectively

** brake torque values obtained with 12, 9 and 6 springs, respectively

t_1 = brake release time with half-wave rectifier
t_{1s} = brake release time with over-energizing rectifier
t_2 = brake engagement time with AC line interruption and separate power supply
t_{2c} = brake engagement time with AC and DC line interruption – Values for t_1, t_{1s}, t_2, t_{2c} indicated in the tab. (F34) are referred to brake set at maximum torque, medium air gap and rated voltage
W_{max} = max energy per brake operation
W = braking energy between two successive air gap adjustments
P_b = brake power absorption at 20°C
M_b = static braking torque (±15%)
s/h = starts per hour

The brake pad wear depends on the operating/ambient conditions (temperature, humidity, angular speed, specifica pressure); Therefore the declared wear rate must be considered as indicative.



Performance Table – FD DC Brake [imperial]

The table below reports the technical specifications of DC brakes FD.

(F39)

Brake	Brake torque M_b [Nm]			Release		Braking		W_{max} per brake operation			W	P_b
	6 springs	4 springs	2 springs	t_1	t_{1s}	t_2	t_{2c}	10 s/h	100 s/h	1000 s/h		
	lb·in	lb·in	lb·in	[ms]	[ms]	[ms]	[ms]	[lb·ft]	[lb·ft]	[lb·ft]	[lb·ft × 10^6]	[W]
FD02	-	31	16	30	15	80	9	3.320	1.030	130	11	17
FD03	44	31	16	50	20	100	12	5.160	1.400	170	18	24
FD53	66	44	22	60	30	100	12	5.160	1.400	170	18	24
FD04	133	89	44	80	35	140	15	7.380	2.290	260	22	33
FD14	133	89	44	80	35	140	15	7.380	2.290	260	22	33
FD05	354	230	115	130	65	170	20	13.300	3.320	370	37	45
FD15	354	230	115	130	65	170	20	13.300	3.320	370	37	45
FD06S	531	354	177	-	80	220	25	14.800	3.540	410	52	55
FD56	-	664	328	-	90	250	20	21.400	5.460	590	59	65
FD06	-	886	443	-	100	250	20	21.400	5.460	590	59	65
FD07	1.329	886	443	-	120	200	25	29.500	6.860	740	96	65
FD08*	2.210	1.770	1.510	-	140	350	30	44.300	10.300	1.110	170	100
FD09**	3.540	2.655	1.770	-	200	450	40	51.600	11.100	1.250	170	120
FD8	3.540	3.540	3.540	176	78	236	-	47.950	5.170	480	-	85
FD9	5.310	5.310	5.310	324	138	176	-	88.500	8.860	890	-	100
FD10	7.081	7.081	7.081	480	194	172	-	73.760	11.800	1.480	-	150
FD1000	8.851	8.851	8.851	252	-	375	-	162.270	19.920	2.000	-	300
FD1600	14.161	14.161	14.161	366	-	498	-	169.640	25.820	2.590	-	340
FD2500	22.127	22.127	22.127	660	-	880	-	435.170	45.000	4.500	-	530

* brake torque values obtained with 9, 7 and 6 springs, respectively

** brake torque values obtained with 12, 9 and 6 springs, respectively

t_1 = brake release time with half-wave rectifier
t_{1s} = brake release time with over-energizing rectifier
t_2 = brake engagement time with AC line interruption and separate power supply
t_{2c} = brake engagement time with AC and DC line interruption – Values for t_1, t_{1s}, t_2, t_{2c} indicated in the tab. (F34) are referred to brake set at maximum torque, medium air gap and rated voltage
W_{max} = max energy per brake operation
W = braking energy between two successive air gap adjustments
P_b = brake power absorption at 70°F
M_b = static braking torque (±15%)
s/h = starts per hour

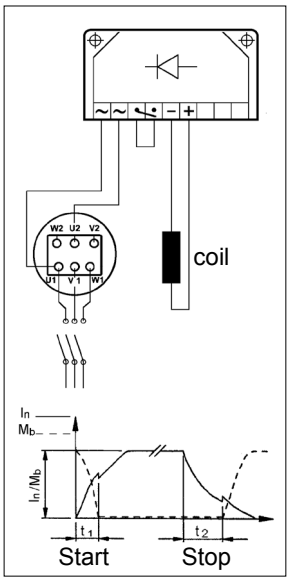
The brake pad wear depends on the operating/ambient conditions (temperature, humidity, angular speed, specifica pressure); Therefore the declared wear rate must be considered as indicative.

M8.6 FD brake connections

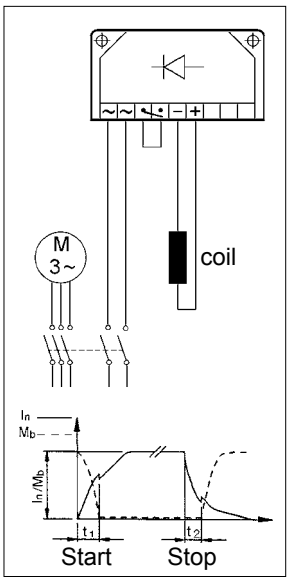
On standard single-pole motors, the rectifier is connected to the motor terminal board at the factory.
For switch-pole motors and where a separate brake power supply is required, connection to rectifier must comply with brake voltage VB stated in motor name plate.
Because the load is of the inductive type, brake control and DC line interruption must use contacts from the usage class AC-3 to IEC 60947-4-1.

Table (F40) – Brake coil with power supply from motor terminals and AC line interruption.
Delayed stop time t2 and function of motor time constants.
Mandatory when soft-start/stops are required.
Table (F41) – Brake coil with separate power supply (SA) and AC line interruption.
Normal stop time independent of motor.
Achieved stop times t2 are indicated in the table (F39).
Table (F42) – Brake coil with power supply from motor terminals and AC/DC line interruption.
Quick stop with operation times t2c as per table (F39).
Table (F43) – Brake coil with separate power supply (SA) and AC/DC line interruption.
Stop time decreases by values t2c indicated in the table (F39).

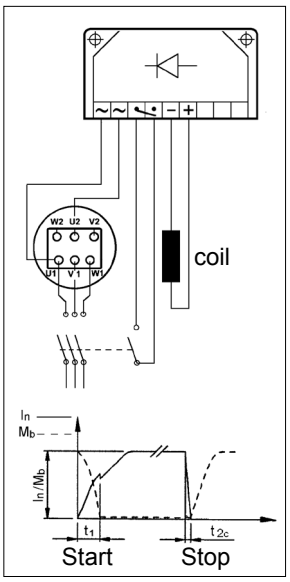
(F40)



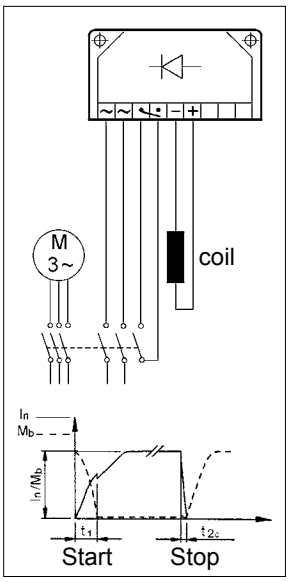
(F41)



(F42)



(F43)

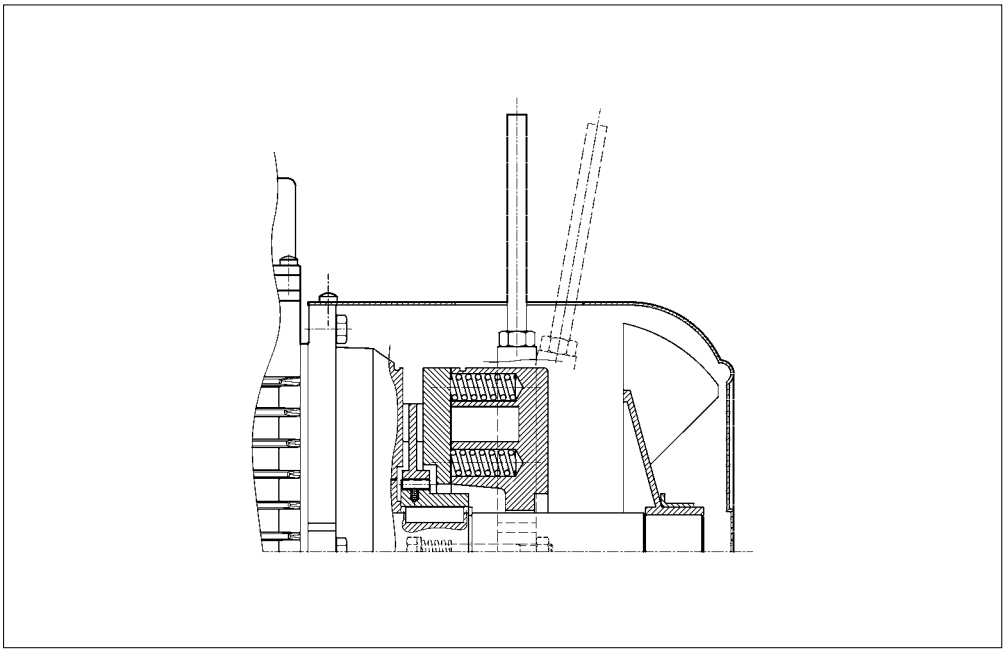


M9 BRAKE RELEASE SYSTEMS

Spring-applied brakes type FD may be equipped with optional manual release devices. These are typically used for manually releasing the brake before servicing any machine or plant parts operated by the motor.

(F44)

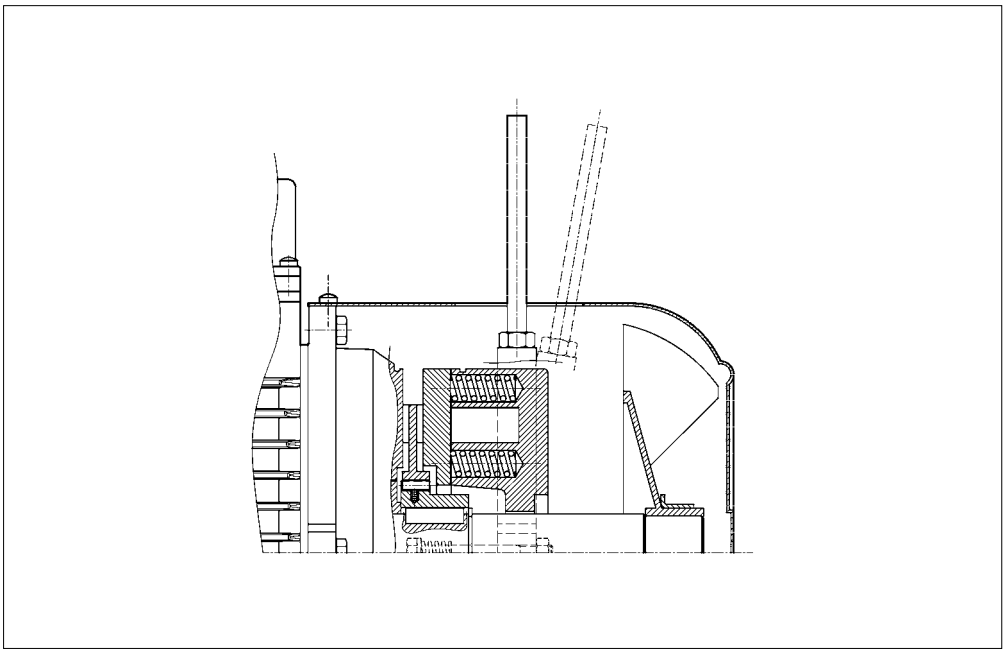
R

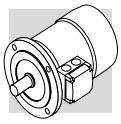


A return spring brings the release lever back in the original position.

(F45)

RM





On brake motors type FD, if the option RM is specified, the release device may be locked in the ”release” position by tightening the lever until its end becomes engaged with a brake housing projection.
The availability for the various disengagement devices is charted here below:

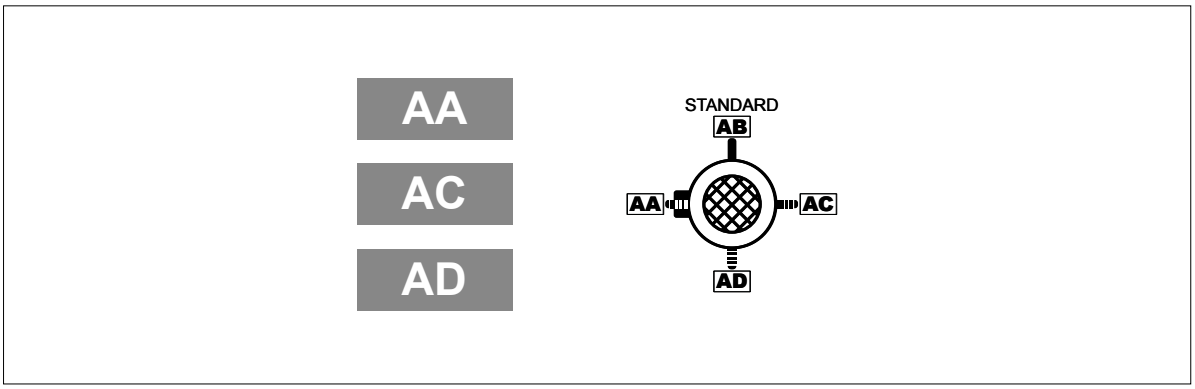
(F46)

	R	RM
BX_FD **BE_FD** **BN_FD**	**BX 63 ... BX 180** **BX 200K ... BX 315K** **BE 63 ... BE 180** **BN 63 ... BN 200**	**BX 63 ... BX 132** **BE 63 ... BE 132** **BN 63 ... BN 132** **⛔ FD07**
MX_FD **ME_FD** **M_FD**	**MX05 ... MX5** **ME05 ... ME5** **M05 ... M5**	**MX05 ... MX4** **ME05 ... ME4** **M05 ... M4LA**

M9.1 Release lever orientation

Unless otherwise specified, the release lever is located 90° away from the terminal box – identified by letters [**AB**] in the diagram below – in a clockwise direction on both options **R** and **RM**. Alternative lever positions [**AA**], [**AC**] and [**AD**] are also possible when the corresponding option is specified:

(F47)



M9.2 Separate brake supply

...SA

Separate AC brake supply
The brake coil is directly powered through an independent line, separated from the motor one.
FD-NB/SB-SA: the rated AC voltage which power the rectifier must be specified. E.G. SA 400 (V AC).

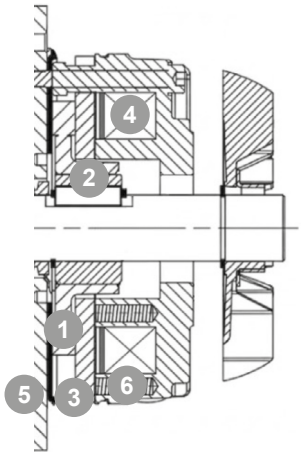
...SD

Separate DC brake supply
The brake coil is directly powered with a DC current and the rectifier is not present.
The rated coil voltage must be specified, E.G. SD 24 (V DC).
Note: for BX...K200 it is not possible to directly feed the brake from the motor terminal box, it is then necessary to select option SA or SD.

M10 BRAKE MOTORS - DIRECT CURRENT HIGH PERFORMANCE BRAKE FOR BXN | MXN

Asynchronous brake motors

Standard electric motors can be equipped with a brake thus creating a self-braking unit. The brake helps in situation where it is necessary a quickly and safely stop of the machine.
All brakes are designed for fail-safe operation: the braking torque is applied by spring action whenever the power supply is interrupted, ensuring maximum safety.



Key:

1. Brake disc
2. Disc carrier
3. Pressure plate
4. Brake coil
5. Motor rear shield
6. Brake springs

In the event of a power failure, pressure springs push the armature plate against the brake disc.
The disc is trapped between the armature plate and the motor shield, effectively stopping shaft rotation.
When the coil is energized, a magnetic field, strong enough to overcome the spring force, attracts the armature plate.
This releases the brake disc, which is integral with the motor shaft, allowing it to rotate freely.

Brake type selection

FDD series brakes are engineered for applications requiring high precision, low noise, and customizable response times, from smooth engagement to high-dynamic performance.

Cases	Motor power supply	Brake coil power supply	Brake power supply designation	Braking system
1	CA	Dedicated AC	SA	FDD + rectifier
2		Dedicated DC	SD	FDD

Direct connection is feasible by selecting an SA motor supply. Customers must manage the wiring and ensure motor/brake voltage compatibility

M10.1 Brake type

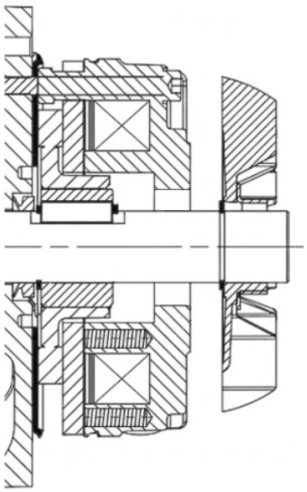
FDD

High-performance DC brake type

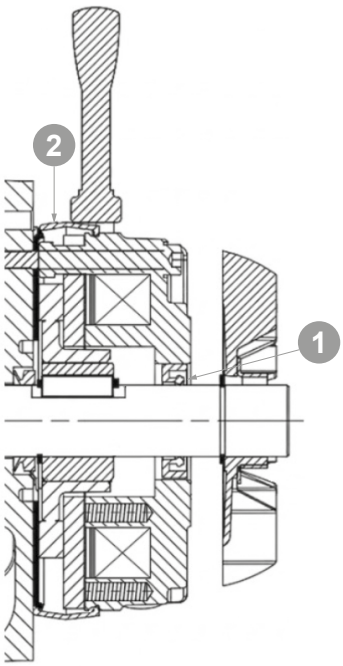
EVOX motors are equipped with FDD series DC spring-applied electromagnetic brakes.
The brake assembly is bolted directly onto the motor rear shield for maximum compactness. A steel hub with an integrated anti-vibration device is shrunk onto the motor shaft, allowing the brake disc to slide axially with minimal noise and wear.

FDD brakes are engineered for high-performance operation, ensuring reliable torque and safe energy dissipation during both static holding and high-energy dynamic braking.
They ensure high dynamic response and low-noise operation, making them ideal for demanding industrial environments.
Operating characteristics can be optimized by selecting from the available NR or SR rectifier options and various wiring configurations to achieve the perfect balance between response time and energy efficiency.

IP55

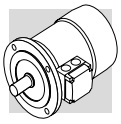


IP56



BXN, MXN and MNN brake motors comes with an IP55 protection degree as standard and it is possible to configure them with an IP56 as an option.
If IP56 is selected, the following construction variants will be applied:

1. Oil seal at N.D.E. of motor shaft
2. Dust and waterproof rubber seal



M10.2 Separate brake supply

SA

Brake AC separate power supply
The brake rectifier is powered through an independent AC line, separate from the motor power supply.
FDD - NR/SR - SA: The rated AC voltage for the rectifier must be specified (e.g., SA 400 V AC).

SD

Brake DC separate power supply
The brake coil is directly powered with DC current. In this configuration, the rectifier is not present.
The rated coil voltage must be specified (e.g., SD 24 V DC).

M10.3 Brake supply

230

FDD brake power supply
A rectifier installed inside the terminal box feeds the DC brake coil. Wiring between the rectifier and the brake coil is provided as factory standard.
The rectifier is typically supplied as a separate circuit to ensure compatibility with inverter-fed applications and different control logic. Connection to the motor terminal board (direct supply) can be performed by the user if required, provided the voltage levels are compatible.
Brake power supply voltage is specified in the following table and is independent of the mains frequency:

FDD-SD brake supply voltages

Motor size	Motor supply	Braking system supply	Voltage (V CC)
BXN 63 … BXN 132 MXN 05 ... MXN 40	More options depending on the chosen winding	The brake coil is directly powered with DC	24
			48
			180
			205

Configurable for motors with 50HZ and 60HZ power supply.

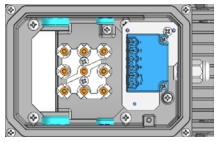
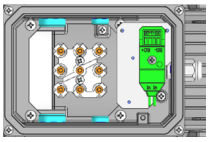
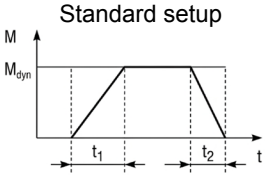
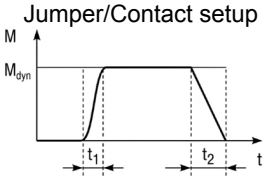
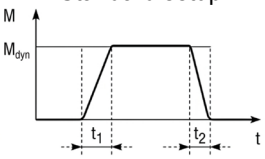
FDD-SA brake supply voltages

Motor size	Motor supply	Braking system supply	Voltage (V AC)
BXN 63 … BXN 132 MXN 05 ... MXN 40	More options depending on the chosen winding and frequency	The brake rectifier is powered with a separate AC	110
			115
			120
			127
			200
			208
			220
			230
			240
			330
			380
			400
			415
			440
			460
			480
			360-500

Configurable for motors with 50HZ and 60HZ power supply.

M10.4 AC/DC rectifier type

The FD brake coil can be directly fed with DC current or by an AC/DC connection through a rectifier. A rectifier is a circuit that converts the Alternating Current (AC) input power into the Direct Current (DC) output power required by the brake coil (VDC ~ 0.45 * VAC or VDC ~ 0.9 * VAC).
EVOX motors are available in versions NR and SR, as detailed below:

			
Motor size	**Brake size**	**Standard variant [NR]**	**Option variant [SR]**
BXN 63	FDD06S	Standard setup  Jumper/Contact setup 	Standard setup 
BXN 71	FDD06		
BXN 80	FDD08		
BXN 90	FDD10		
BXN 100	FDD12		
BXN 112	FDD14		
BXN 132	FDD16		

Operating/switching times of the spring-applied brakes
t_1 Engagement time
t_2 Disengagement time (up to M = 0.1 M_{dyn})
M_{dyn} Braking torque at a constant speed of rotation

Schematic diagrams simplified for clarity to provide an insight into the brake's operating logic. For detailed technical data, please refer to the *Brake Performance chapter.*

NR

Standard Rectifiers

The NR is the standard bridge/half-wave rectifier used to provide the correct DC voltage to the brake coil based on the available AC mains supply.

- Fast Switching: It features a dedicated terminal for an external contact to implement a DC-side interruption (fast turn-off). This is essential for reducing braking response times in lifting applications or emergency stops.
- Compliance: cURus certified for voltages up to 270V AC. For higher voltages, the URus certified version is available.

SR

High-Performance Electronic Rectifier

The SR is an electronic overexcitation rectifier designed for high-dynamic applications. It optimizes brake performance through an intelligent current setup.

- Efficiency & Reliability: The electronic control optimizes the current setup (overexcitation), reducing thermal stress on the coil and allowing for high switching frequencies.
- Global Standard: Fully cURus certified across the entire supported voltage range, ensuring seamless global compliance.

M10.5 Performance Table - FDD DC Brake [metric]

(F48)

Brake	Brake torque [Mb]									NR				NR - fast off				SR - fast off				Wmax			W	Pb
										t_{11}	t_{12}	t_1	t_2	t_{11}	t_{12}	t_1	t_2	t_{11}	t_{12}	t_1	t_2	10 s/h	100 s/h	1000 s/h		
	[Nm]									[ms]				[ms]				[ms]				[kJ]			[MJ]	[W]
FDD06S	1	1.3	1.6	2	2.6	3.3	-	-	-	84	196	280	45	15	13	28	45	45	13	58	36	3.0	1.6	0.2	34	20
FDD06	1.6	2	2.3	2.5	3	3.5	4	4.5	6	84	196	280	45	15	13	28	45	45	13	58	36	3.0	1.6	0.2	34	20
FDD08	3.5	5	6	7	8	9	12	-	-	93	217	310	57	15	16	31	57	45	16	61	46	7.4	3.0	0.4	87	25
FDD10	7	9	11	16	23	-	-	-	-	141	329	470	76	28	19	47	76	58	19	77	61	11.8	4.0	0.5	106	32
FDD12	14	18	23	32	46	-	-	-	-	159	371	530	115	28	25	53	115	58	25	83	92	22.8	6.2	0.7	212	40
FDD14	25	40	55	80	-	-	-	-	-	126	294	420	210	17	25	42	210	47	25	72	168	28.2	7.3	0.8	230	52
FDD16	35	45	55	70	80	100	125	-	-	171	399	570	220	27	30	57	220	57	30	87	176	33.6	8.5	1.0	387	56

[Values calculated for coils with a connection voltage of 205 V DC at rated air gap and 0.7x rated current IN, at 20 °C]

t_{11} = Brake delay time during engagement
t_{12} = Brake rise time of the braking torque
t_1 = Brake engagement time
t_2 = Brake disengagement time (Up to M = 0.1Mdyn)
W_{max} = Max energy per brake operation
W = Braking energy between two successive air gap adjustments
Pb = Brake power absorption at 20°C
Mb = Braking torque (tolerance ±25%)
s/h = starts per hour

Performance Table - FDD DC Brake [imperial]

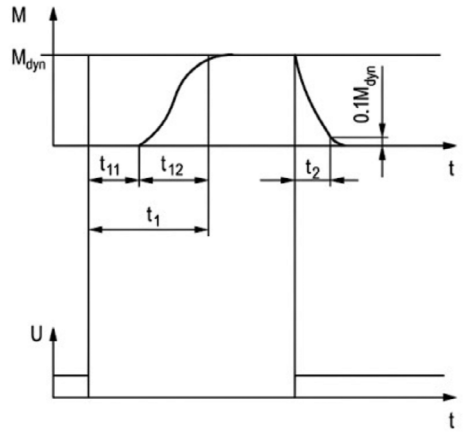
(F49)

Brake	Brake torque [Mb]									NR				NR - fast off				SR - fast off				Wmax			W	Pb
										t_{11}	t_{12}	t_1	t_2	t_{11}	t_{12}	t_1	t_2	t_{11}	t_{12}	t_1	t_2	10 s/h	100 s/h	1000 s/h		
	[lb·in]									[ms]				[ms]				[ms]				[lb·ft]			[lb·ft×10^6]	[W]
FDD06S	8.85	11.51	14.16	17.70	23.01	29.21	-	-	-	84	196	280	45	15	13	28	45	45	13	58	36	2213	1180	148	25	20
FDD06	14.16	17.70	20.36	22.13	26.55	30.98	35.40	39.83	53.10	84	196	280	45	15	13	28	45	45	13	58	36	2213	1180	148	25	20
FDD08	30.98	44.25	53.10	61.96	70.81	79.66	106.21	-	-	93	217	310	57	15	16	31	57	45	16	61	46	5458	2176	295	64	25
FDD10	61.96	79.66	97.36	141.61	203.57	-	-	-	-	141	329	470	76	28	19	47	76	58	19	77	61	8703	2950	369	78	31.5
FDD12	123.91	159.31	203.57	283.22	407.13	-	-	-	-	159	371	530	115	28	25	53	115	58	25	83	92	16816	4573	516	156	40
FDD14	221.27	354.03	486.79	708.06	-	-	-	-	-	126	294	420	210	17	25	42	210	47	25	72	168	20799	5384	590	170	51.5
FDD16	309.78	398.28	486.79	619.55	708.06	885.08	1106.34	-	-	171	399	570	220	27	30	57	220	57	30	87	176	24782	6269	701	285	55.5

[Values calculated for coils with a connection voltage of 205 V DC at rated air gap and 0.7x rated current IN, at 70°F]

t_{11} = Brake delay time during engagement
t_{12} = Brake rise time of the braking torque
t_1 = Brake engagement time
t_2 = Brake disengagement time (Up to M = 0.1Mdyn)
W_{max} = Max energy per brake operation
W = Braking energy between two successive air gap adjustments
Pb = Brake power absorption at 70°F
Mb = Braking torque (tolerance ±25%)
s/h = starts per hour

Operating/switching times of the spring-applied brakes



M10.6 FDD brake connection

Whenever a separate brake power supply is required (e.g., for inverter operation), the connection to the rectifier must comply with the brake winding voltage stated on the motor nameplate.
Because of the highly inductive load, contacts used for brake control must belong to usage class AC-3 (for AC line interruption) or DC-13 (for DC line interruption) according to IEC 60947-4-1.

Table (1) – Brake coil with separate power supply and NR rectifier, a.c. line interruption.
Table (2) – Brake coil with separate power supply and NR rectifier, a.c. and d.c. lines interruption.
Table (3) – Brake coil with separate power supply and SR electronic rectifier, with integrated overexcitation and fast switching.

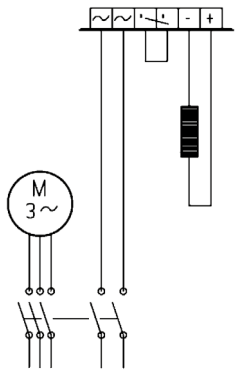


Table (1)
FDD | SA | NR

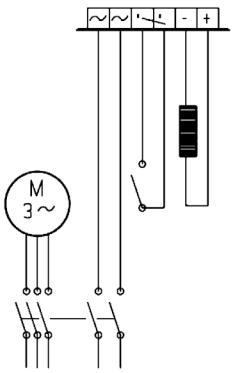


Table (2)
FDD | SA | NR

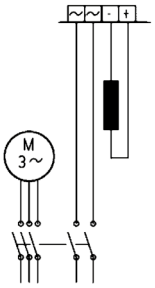


Table (3)
FDD | SA | SR

M10.7 Brake hand release systems

Spring-applied brakes type FDD can be equipped with optional manual release devices. These are used to manually release the brake before servicing any machine or system components driven by the motor.
Availability of the various release devices is indicated below:

	R
BXN_FDD	BXN 63 … BXN 132

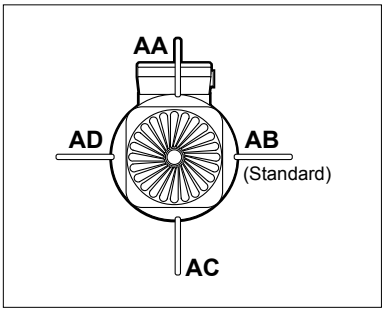
R

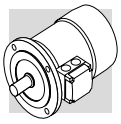
Lever with return spring
With this options, the return spring brings the release lever back in the original position.

M10.8 Brake hand release lever position

AA

Release lever orientation
Unless otherwise specified, the release lever is located 90° away from the terminal box – identified by letters [AB] in the diagram on the right – in a clockwise direction on both R and RM options.
Alternative lever positions [AA], [AC] and [AD] are also possible when the corresponding option is specified.





M11 OPTIONS

M11.1 Soft-start / stop

F1

An optional flywheel - option F1 - is available for applications requiring soft starting or stopping. The flywheel's added inertia uses up kinetic energy during starting and returns it back during braking, thus catering for more progressive and gradual shock loads. The optional flywheel is available for brake motors type BN-BE_FD and M-ME_FD with specific characteristics as detailed in the table below:

(F50)

Main data for flywheel of motore type: BN-BE_FD, M-ME_FD					
		Fly-wheel weight		Fly-wheel inertia	
		[Kg]	[lbs]	[Kgm²] × 10^{-4}	[lb·ft²] × 10^{-4}
BN 63 - BE 63	**M05 - ME05**	0,69	1,52	6,3	149,5
BN 71 - BE 71	**M1 - ME1**	1,13	2,49	13,5	320,4
BN 80 - BE 80	**M2 - ME2**	1,67	3,68	27,0	640,7
BN 90 S - BN 90 L - BE 90 S - BE 90 LA	**–**	2,51	5,53	53,0	1.257,7
BN 100 - BE 100	**M3 - ME3**	3,48	7,67	84,0	1.993,4
BN 112 - BE 112	**–**	4,82	10,63	148,3	3.519,2
BN 132 S - BN 132 M - BE 132 S - BE 132 M	**M4 - ME4**	6,19	13,65	258,0	6.122,4

M11.2 Capacitive filter

CF

An optional capacitive filter is available for brake motors type FD only. When the suitable capacitive filter is installed upstream of the rectifier (option CF), motors comply with the emission limits required by standard EN61000-6-3:2007 "Electromagnetic Compatibility – Generic Emission Standard – Part 6-3: Residential, commercial and light industrial environment".
BX≥200LA and BX≥200LAK motors comply with the emission limits required by standard EN 61000-6-3:2007 "Electromagnetic Compatibility - Generic Emission Standard - Part 6-3: residential, commercial and light industrial environment."

M11.3 Thermal protective devices

In addition to the standard protection provided by the magneto-thermal device, motors can be supplied with built-in thermal probes to protect the winding against overheating caused, by insufficient ventilation or by an intermittent duty.
This additional protection should always be specified for servoventilated motors (IC416).

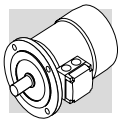
M11.4 Thermistors

E3

These are semi-conductors having rapid resistance variation when they are close to the rated switch off temperature (150°C [302°F]). Variations of the R = f(T) characteristic are specified under DIN 44081, IEC 34-11 Standards. Positive temperature coefficient thermistors are normally used (also known as PTC "cold conductor resistors"). Thermistors cannot control relays directly and must be connected to a suitable disconnect device. Thus protected, three PTCs connected in series are installed in the winding, the terminals of which are located on the auxiliary terminal-board.

K1

The design characteristics of this sub-group of PTC thermistors allow them to be used as positive temperature coefficient sensors with variable resistance.
Functioning temperature range: 0 ... 260 °C [32 ... 500 °F].
Thermistors cannot control relays directly and must be connected to a suitable disconnect device.
Terminals (polarised) for 1 x KTY 84-130 are provided on an auxiliary terminal strip.



M11.5 Bimetallic thermostates

D3

These types of protective devices house a bimetal disk. When the rated switch off temperature (150°C [302°F]) is reached, the disk switches the contacts from their initial rest position.
As temperature falls, the disk and the contacts automatically return to rest position.
Three bimetallic thermostates connected in series are usually employed, with normally closed contacts. The terminals are located on an auxiliary terminal-board.

M11.6 Temperature sensors

The platinum elements resistance thermometers on the basis of PT100, PT1000 are used everywhere in the industrial temperature measurement where low to medium temperatures are measured.
They offer the advantage of meeting international standards (IEC 751 / DIN EN 60 751), have a good long-term stability, a reliable behaviour over temperature cycles and a wide temperature range as well as a high measurement accuracy and linearity.
The resistance thermometer has a chip for a temperature sensor, the resistance of which changes in relation to temperature according to a series of reproducible basic values. The changes in resistance are transferred as changes in current.

PT100

At 0 °C, the nominal resistance is adjusted to 100 Ω

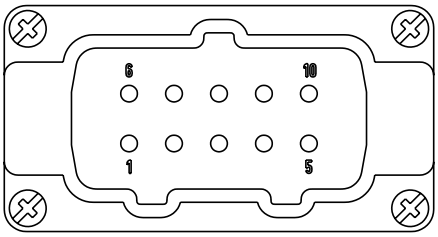
M11.7 Plug connector

CON

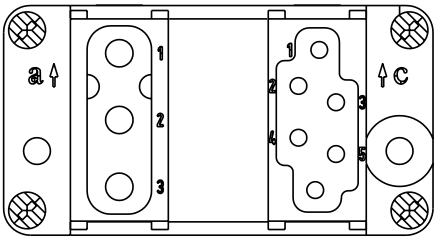
Three types of connectors (CON 1, CON 2, CON 3) are provided; they can be mounted in two different positions: right side of terminal box cover (C1D, C2D, C3D); left side of terminal box cover (C1S, C2S, C3S).
The option CON is applicable to single speed BN and M motors (2, 4, 6, 8 poles), and BX / BE and MX / ME motors on the sizes specified on the following table. All double speed motors are excluded.
The connectors CON 1 / CON 2 are available for BX-BE/MX-ME and BN/M motors without brake and for brakemotors equipped with DC brake type FD, for the motor sizes listed below.
The male connector (with pins) is mounted on the motor, the female connector is not provided. With CON option, the winding connection is always Y.
With option U1 “forced ventilation”, the fan unit supply is available inside the separate terminal box fixed to fan cover. With options EN1...EN6, the encoder connection is made by a cable not connected to the motor plug connector.
The CON option is not applicable to brakemotors equipped with AC brake type FA.
The CON option is not available when at least one of the next options are selected: the U2, CUS, IC.

Specifications

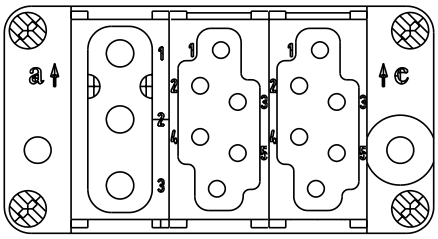
(F51)

Option	**CON 1**
Motor size	**BX 63 ... BX 112 / MX05, MX3 / BE 63 ... BE 112 / ME05 ... ME4** **BN 63 … BN 112 / M05 ... M3**
Connector view	
Type of connector	Harting Han 10ES
Housing	Han EMC 10B with 2 levers
Numbers of pins - nominal current	10 x 16A
Voltage	500 Vac
Contact connection	Screw terminals

(F52)

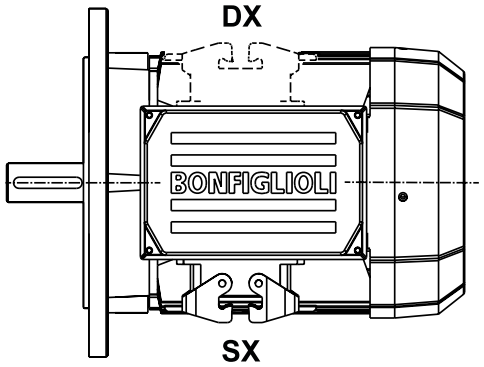
Option	**CON 2**
Motor size	**BX 63 ... BX 132 / MX05, MX3 / BE 63 ... BE 132 / ME05 ... ME4** **BN 63 … BN 160MR / M05 ... M4**
Connector view	
Type of connector	Harting Han Modular
Housing	Han EMC 10B with 2 levers
Module type	Module C + Module E + Module E
Numbers of pins - nominal current	3 x 36A / 6 x 16A
Voltage	500 Vac
Contact connection	Crimping contacts

(F53)

Option	**CON 3**
Motor size	**BX 63 ... BX 132M / MX05, MX3 / BE 63 ... BE 132 / ME05 ... ME4 /** **BN 63 … BN 160MR / M05 ... M4**
Connector view	
Type of connector	Harting Han Modular
Housing	Han EMC 10B with 2 levers
Module type	Module C + Module E + Module E
Numbers of pins - nominal current	3 x 36A / 6 + 6 x 16A
Voltage	500 Vac
Contact connection	Crimping contacts

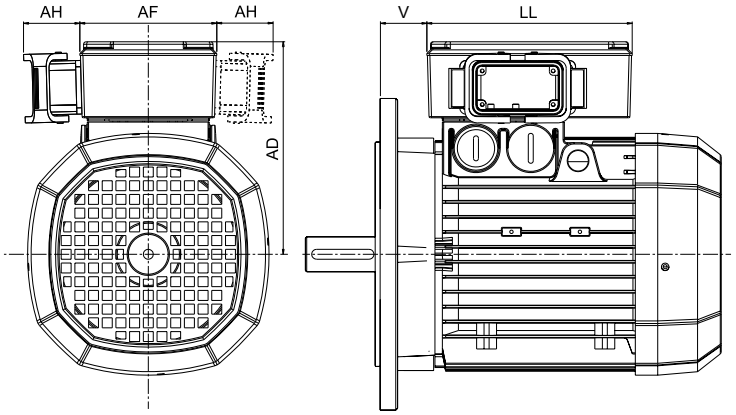
(F54)

Connector orientation



(F55)

Connector related dimensions



		AD		AF		AH		LL		V(*)	
		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
BX 63 - BE 63 - BN 63	**MX05 - ME05 - M05**	136	5.354	110	4.331	45	1.772	165	6.496	4.5	0.177
BX 71 - BE 71 - BN 71	**MX1 - ME1 - M1**	149	5.866							15.5	0.610
BX 80 - BE 80 - BN 80	**MX2 - ME2 - M2**	160	6.299							16.5	0.650
BX 90 - BE 90 - BN 90	**MX3**	162	6.378							31.5	1.240
BX 100 - BE 100 - BN 100	**MX3 - ME3 - M3**	171	6.732							37.5	1.476
BX 112 - BE 112 - BN 112	**MX4**	186	7.323							39	1.535
BX 132 - BE 132 - BN 132	**MX4 - ME4 - M4**	210	8.268	140	5.512				7.402	45.5	1.791
BN 160MR	**–**									161	6.339

(*) Dimension valid only for IEC motors BX, BE and BN.

M11.8 Control of brake operation

This variant specifies the presence of electromechanical sensors designed to provide real-time feedback on the brake's condition.

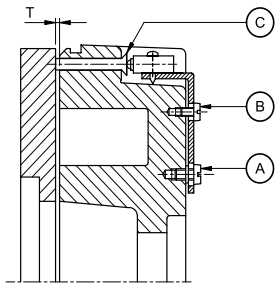
MSW

The microswitch can be set in order to obtain from it a signal related to the attraction/release of anchor plate, or it can be set in order to give feedback when the air gap reaches the maximum value.

MSW option is available for brakes FD03...FD09.

The microswitch is provided with three lead wires (NC, NO, COM). The next figure shown the main components of the brake equipped with microswitch.

(F56)



A: Plate f xing screws
B: Setting screws
C: Actuator control pin

MRM

This variant enable the brake release monitoring. It reads the position of the armature plate to confirm if the brake is physically Engaged or Released. All standard braking torque are available.



BXN size	Brake size	MRM Release monitoring
63	FDD 06S	
71	FDD 06	
80	FDD 08	
90	FDD 10	•
100	FDD 12	•
112	FDD 14	•
132	FDD 16	•

MWM

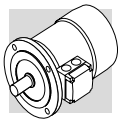
This variant enable the brake wear monitoring. It Monitors the Air Gap width. It triggers a signal when the gap exceeds the maximum tolerance due to friction material consumption, indicating that maintenance or adjustment is required.



BXN size	Brake size	MWM Wear monitoring
63	FDD 06S	
71	FDD 06	
80	FDD 08	
90	FDD 10	
100	FDD 12	•
112	FDD 14	•
132	FDD 16	•

Brake torque available on MWM

		1 x T_Mot		2 x T_Mot	
		[Nm]	[lb-in]	[Nm]	[lb-in]
BXN 100 LA	BFK 12	14	123.9	32	283.2
BXN 100 LB	BFK 12	18	159.3	46	407.1
BXN 112 M	BFK 14	25	221.3	55	486.8
BXN 132 S	BFK 16	35	309.8	70	619.6
BXN 132 M	BFK 16	45	398.3	100	885.1



M11.9 Additional cable entry for brakemotors

IC

The terminal box cover of brakemotors BN 63 ... BN 160MR - M05 ... M4L is provided with two additional cable entry M16 x 1.5 (one cable entry per side).
The terminal box cover of brakemotors BN 160 ... BN 200 - M5 is provided with an additional cable entry M16 x 1.5 next to the cable entry used for the brake.

M11.10 Anti-condensation heaters

H1 **NH1**

Where an application involves high humidity or extreme temperature fluctuation, motors may be equipped with an anti-condensate heater.
A single-phase power supply is available in the auxiliary terminal board inside the main terminal box.
Values for the absorbed power are listed here below:

(F58)

	H1 1~ 230V ± 10% P [W]	NH1 1~ 115V ± 10% P [W]
BX 63 ... BX 80 **BE 63 ... BE 80** **BN 56 ... BN 80**	10	10
BX 90 ... BX 132 **BE 90 ... BE 132MB** **BN 90 ... BN 160MR**	25	25
BX 160...BX 180 **BX 200K ... BX 250K** **BE 160, BE 180** **BN 160, BN 200**	50	50
BY 280K **BX 280K**	60	60
BY 315K ... BY 355K **BX 315K ... BX 355K**	120	120

Warning!
Always remove power supply to the anti-condensante heater before operating the motor.

M11.11 Tropicalization

TP

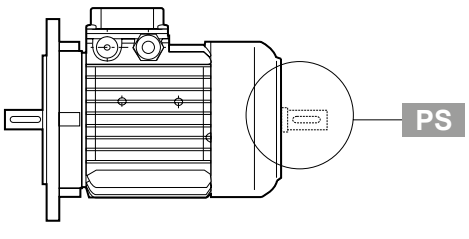
When option **TP** is specified, motor windings receive additional protection for operation in high humidity and temperature conditions.

M11.12 Second shaft extension

PS

This option is not compatible with variants RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6, EN7, EN8.
For shaft dimensions please see motor dimensions tables.

(F57)



M11.13 Backstop device

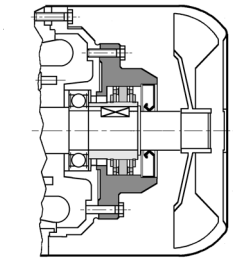
AL **AR**

For applications where backdriving must be avoided, motors equipped with an anti run-back device can be used (available for the MX/ME and M series only). While allowing rotation in the direction required, this device operates instantaneously in case of a power failure, preventing the shaft from running back. The anti run-back device is life lubricated with special grease for this specific application. When ordering, customers should indicate the required rotation direction, AL or AR.
Never use the anti run-back device to prevent reverse rotation caused by faulty electrical connection. Table (F62) shows rated and maximum locking torques for the anti run-back devices. A diagram of the device can be seen in Table (F63). Overall dimensis are same as the corresponding brake motor. The direction of free rotation is described in the “MOTOR OPTIONS” section of specifically dedicated sections to gear units.

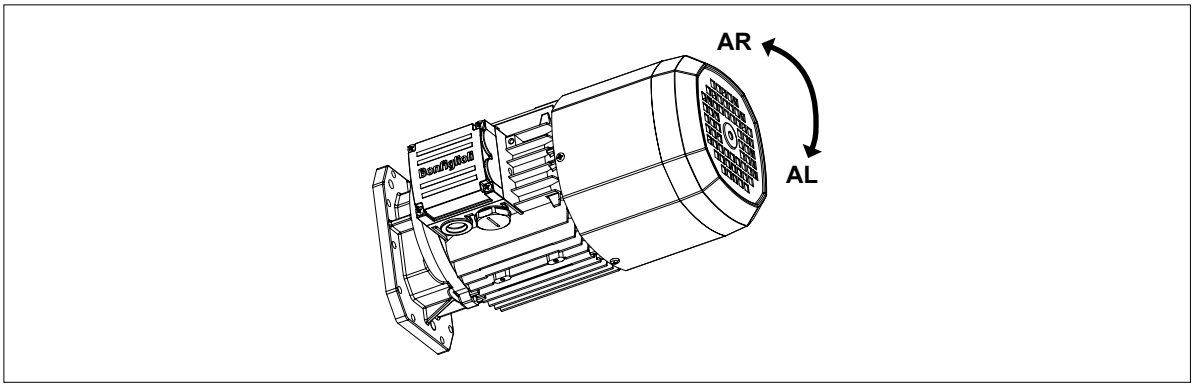
(F59)

	Rated locking torque		Max. locking torque		Release speed
	[Nm]	[lb·in]	[Nm]	[lb·in]	[rpm] or [min^{-1}]
MX1 - ME1 - M1	6	53	10	90	750
MX2 - ME2 - M2	16	140	27	240	650
MX3 - ME3 - M3	54	480	92	815	520
MX4 - ME4 - M4	110	970	205	1.815	430

(F60)



The direction of free rotation allowed for AR and AL option is shown below:



M11.14 Rotor balancing

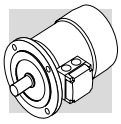
RV

Where low noise is a priority requirement, the option RV ensures reduced vibration in accordance with vibration class B.
The table below reports effective velocity of vibration for normal (A) and B grade balancing.

(F61)

Motor Range	Vibration level	Angular velocity	Limits of the vibration velocity	
		[rpm] or [min^{-1}]	[mm/s]	[in/s]
BX 132 ≤ H ≤ BX 180L **BE 80 ≤ H ≤ BE 180L** **BN 56 ≤ H ≤ BN 200B**	A	600 < n < 3600	1.60	0.06
	B		0.70	0.03

Values are obtained from measurements on freely suspended motor during noload operation; tolerance ±10%.



M11.15 Ventilation

Motors are cooled through outer air blow (IC 411 according to CEI EN 60034-6) and are equipped with a plastic radial fan, which operates in both directions.
Ensure that fan cover is installed at a suitable distance from the closest wall so to allow air circulation and servicing of motor and brake, if fitted.
Motor is cooled by an axial fan with independent power supply and fitted on the fan cover (IC 416 cooling system).
This version is used in case of motor driven by inverter so that steady torque operation is possible even at low speed or when high starting frequencies are needed.
Brake motors of motors with rear shaft projection (PS option) are excluded.
This variant has two different models, called U1 and U2, having the same longitudinal size. Longer side of fan cover (DL) is specified for both models in the table below. Overall dimension can be reckoned from motor size table.

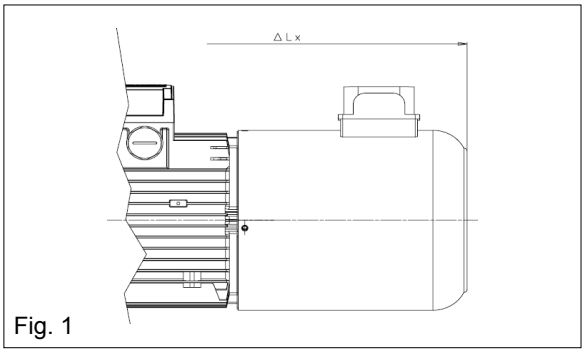


Fig. 1

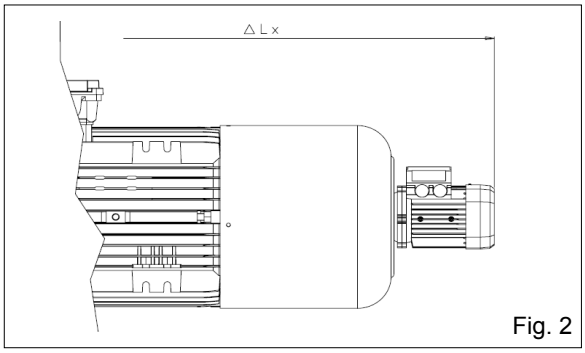


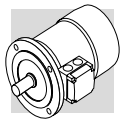
Fig. 2

(F64)

Extra length for servoventilated motors						
		**Δ L_1**	**Δ L_2**	**Δ L_3**	**Δ L_4**	
BX 71 - BE 71 - BN 71	**MX 1 - ME 1 - M 1**	91	30	91	65	**Fig. 1**
BN 80 - BE 80	**M 2 - ME 2**	125	54	125	79	
BX 80 (1)	**MX 2** (1)	80	67	80	67	
BN 90 - BE 90 - BX 90	**MX 2** (2)	132	49	132	85	
BN 100 - BE 100	**M 3 - ME 3**	117	29	117	89	
—	**MX 3SA - MX 3SB**	117	88	117	88	
BX 100	**MX 3LA - MX 3LB**	135	88	135	88	
BN 112 - BE 112	**—**	127	33	127	83	
BX 112	**—**	136	90	136	90	
BN 132 - BE 132 - BN 160MR	**M 4 - ME 4**	158	51	158	122	
BE 132MB	**M 4LC - ME 4LB**	123	27	123	98	
BX 132SB (1)	**MX 4SA - MX 4SB** (1)	158	142	158	122	
BX 132MA (1)	**MX 4LA** (1)	125	118	98	118	
BX 132 (2)	**MX 4LA** (2) **- MX 4SB** (2)	171	83	171	100	
BN 160 - BE 160	**M 5 - ME 5**	181	181	253	211	**Fig. 2**
BX 160	**MX 5**	315	211	249	211	
BN 180M	**—**	181	181	253	211	
BN 180L - BE 180 - BN 200	**—**	181	181	263	211	
BX 180	**—**	341	201	263	201	
BX 200K	**—**	260	260	385	440	
BY 225K - BY 250K **BX 225K - BX 250K**	**—**	320	320	405	386	
BY 280K - BY 315K **BX 280K - BX 315K**	**—**	430	430	580	460	
BY 355K **BX 355K**	**—**	640	640	775	640	

ΔL_1 = Standard motor + U1 - delta compared to STD.
ΔL_2 = Brakemotor + U1 - delta compared to FD.
ΔL_3 = Standard motor + Encoder + U1 - delta compared to STD.
ΔL_4 = Brakemotor + Encoder + U1 - delta compared to FD.

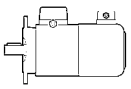
(1) = no CUS no NBR.
(2) = CUS or NBR



U1

Fan wiring terminals are housed in a separate terminal box.
In brake motors of size BX 71 ... BX 160 - BE 71 ... BE 160 - BN 71 ... BN 160MR, MX1 - MX5 - ME1 ... ME5 - M1 ... M5 with **U1** model, the release lever cannot be positioned to AA.
This option can be selected for motors compliant with CSA and UL standards (CUS option), only for BX ≥ 200K.

(F65)

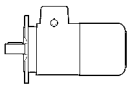


		**V a.c.** ±10%	**Hz**	**P** [W]	**I** [A]
BX 71 - BE 71 - BN 71	**MX1 - ME1 - M1**	1 ~ 230	50 / 60	22	0.12
BX 80 - BE 80 **BN 80**	**MX2 - ME2** **M2**			22	0.12
BX 90 - BE 90 **BN 90**	**–**			40	0.30
BX 100 - BE 100 **BN 100**	**MX3 - ME3** **M3**			50	0.25
BX 112 - BE 112 **BN 112**	**–**	3 ~ 230Δ / 400Y		50	0.26 / 0.15
BX 132 - BE 132 **BN 132 ... BN 160MR**	**MX4 - ME4** **M4L**			110	0.38 / 0.22
BX 160 - BE 160 **BN 160M ... BN 180M**	**MX5 - ME5** **M5**		50	180	1.23 / 0.71
BX 180 - BE 180 **BN 180L ... BN 200L**	**–**			250	1.39 / 0.80
BX 200K ... BX 250K	**–**	3 ~ 400Δ / 690Y		250	0.64
BY 280K .. BY 315K **BX 280K ... BX 315MK**	**–**			750	1.7
BY 315K .. BY 355K **BX 315LK ... BX 355SK**	**–**			1500	3.3
BY 355K **BX 355MK**	**–**			3000	6.1

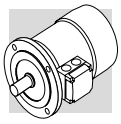
U2

Fan terminals are wired in the motor terminal box.
The **U2** option does not apply to motors BX, BE, MX, ME and to motors with option CUS (compliant to norms CSA and UL).

(F66)



		**V a.c.** ±10%	**Hz**	**P** [W]	**I** [A]
BN 71	**M1**	1 ~ 230	50 / 60	22	0.12
BN 80	**M2**			22	0.12
BN 90	**–**			40	0.30
BN 100	**M3**	3 ~ 230Δ / 400Y		40	0.26 / 0.09
BN 112	**–**			50	0.26 / 0.15
BN 132 ... BN 160MR	**M4L**			110	0.38 / 0.22



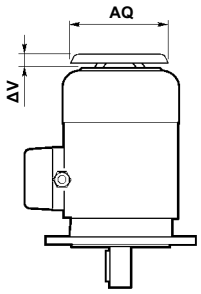
M11.16 Rain canopy

RC

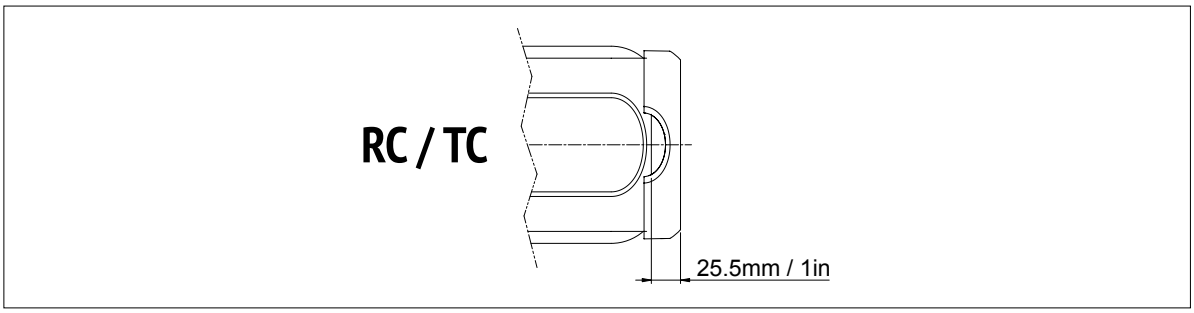
The rain canopy protects the motor from dripping and avoids the ingress of solid bodies. It is recommended when motor is installed in a vertical position with the shaft downwards.
Relevant dimensions are indicated in the table below.
The drip cover is not compatible with variants PS, EN1, EN2, EN3, EN4, EN5, EN6.

(F67)

		AQ		ΔV	
		[mm]	[in]	[mm]	[in]
BX 63 - BE 63 - BN 63	**MX 05 - ME 05 - M 05**	118	4.65	24	0.94
BX 71 - BE 71 - BN 71	**MX1 - ME1 - M1**	134	5.28	27	1.06
BX 80 - BE 80 BN 80	**MX2 - ME2 M2**	152	5.98	25	0.98
BX 90 - BE 90 BN 90	**—**	168	6.61	30	1.18
BX 100 - BE 100 BN 100	**MX3 - ME3 M3**	190	7.48	28	1.10
BX 112 - BE 112 BN 112	**—**	211	8.31	32	1.26
BX 132 - BE 132 BN 132 ... BN 160MR	**MX4 - ME4 M4**	254	10.00	32	1.26
BX 160 - BE 160 BN 160M ... BN 180M	**MX5 - ME5 M5**	302	11.89	36	1.42
BX 180 - BE 180 BN 180L ... BN 200L	**—**	340	13.39	36	1.42
BX 200K	**—**	423	16.65	55	2.17
BX 225K	**—**	465	18.31	55	2.17
BX 250K	**—**	514	20.24	55	2.17
BX 280K BY 280K	**—**	567	22.32	100	3.94
BX 315K BY 315K	**—**	645	25.39	100	3.94
BX 355K BY 355K	**—**	740	29.13	120	4.72



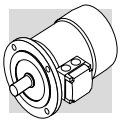
For RC/TC on BXN/MXN motors see the scheme below.



M11.17 Textile canopy

TC

Option TC is a cover variant for textile industry environments, where lint may obstruct the fan grid and prevent a regular flow of cooling air.
This option is not compatible with variants EN1, EN2, EN3, EN4, EN5, EN6, PS, U1, U2.
Overall dimensions are the same as drip cover type RC.
TC option is not available for BX and BY motors.



M11.18 Feedback units

Motors may be combined with six different types of encoders to achieve feedback circuits.
Configurations with double-extended shaft (PS) and rain canopy (RC, TC) are not compatible with encoder installation.

EN1 Incremental encoder, V_{IN} = 5 V, line-driver output RS 422.

EN2 Incremental encoder, V_{IN} = 10-30 V, line-driver output RS 422.

EN3 Incremental encoder, V_{IN} = 12-30 V, push-pull output 12-30 V

EN4 Encoder sin/cos, V_{IN} = 4.5-5.5 V, output Sinus 0.5VPP.

EN5 Absolute encoder singleturn, HIPERFACE® interface, V_{IN} = 7-12 V.

EN6 Absolute encoder multiturn, HIPERFACE® interface, V_{IN} = 7-12 V.

EN7 Incremental encoder Heavy Duty, V_{IN} = 12-30 V, push-pull output 12-30 V.

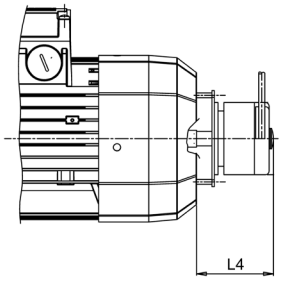
EN8 Incremental encoder Heavy Duty, V_{IN} = 12-30 V, push-pull output 9-30 V.

Note: EN7 and EN8 available only for BY ≥ 280K and BX ≥ 200K

(F68)

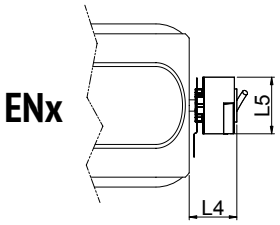
	EN1	EN2	EN3	EN4	EN5	EN6	EN7	EN8
Interface	TTL/RS 422	TTL/RS 422	HTL push-pull	Sinus 0.5 VPP	HIPERFACE®	HIPERFACE®	HTL push-pull	HTL push-pull
Power supply voltage [V]	4...6	10...30	12...30	4.4...5.5	7...12	7...12	9...30	
Output voltage [V]	5	5	12...30	—	—	—	9...30	
No-load operating current [mA]	120	100	100	40	80	80	80	
No. of pulses per revolution	1024							2048
Steps per revolution	—	—	—	—	15 bit	15 bit	-	-
Revolutions	—	—	—	—	—	12 bit	-	-
No. of signals	6 (A, B, Z + inverted signals)			6 (cos-, cos+, sin-, sin+, Z, $\overline{Z}$)	—	—	6	6
Max. output frequency [kHz]	600			200			200	
Max. speed [min^{-1}]	6000 (9000 min^{-1} for 10 s)						6000	
Temperature range [°C]	-30 ... +100						-20 ... +85	
Temperature range [°F]	-22 °F ... +212 °F						-4 °F ... +185 °F	
Protection class	IP 65						IP67	

(F69)

EN1, EN2, EN3, EN4, EN5, EN6, EN7, EN8			
			
Motor Type		**L4**	
IEC	**Compact**	**[mm]**	**[in]**
BN 63 … BN 200	**M05 ... M5**	65	2.56
BE 63… BE180	**ME05 ... ME5L**	65	2.56
BX 63 … BX 180	**MX05 ... MX5L**	65	2.56
BY 280K **BX 200K ... BX 280K**	**—**	100	3.94
BY 315K ... BY 355K **BX 315K ... BX 355K**	**—**	100	3.94

If the encoder variant (option EN_) is specified on motors along with the independent fan cooling (options U1, U2), the extra length of motor is coincident with the one present in catalogue chapter M12.15.

For EN variant on BXN/MXN motor series see the scheme below.

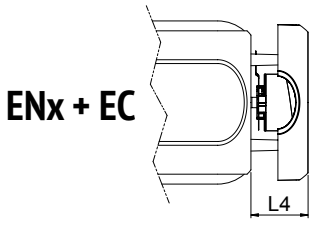


Motor Type		L4		L5	
IEC	**Compact**	**[mm]**	**[in]**	**[mm]**	**[in]**
BXN 63 ... BXN 132	**MXN05 ... MXN40**	50.5	1.99	60	2.36

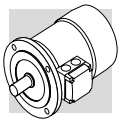
M11.19 EC - Encoder canopy

EC

Option EC is a cover variant specifically made for our encoders. It protects them from impacts and may help in prolonging their productive life.



Motor Type		L4	
IEC	**Compact**	**[mm]**	**[in]**
BXN 63 ... BXN 132	**MXN05 ... MXN40**	60.5	2.38



M11.20 Insulated Bearings

IB

When IB option is selected the motor is equipped with insulated bearings at drive end. This prevent early bearings failures due to high frequency circulation currents.
NOTE: This option is available only for BY...K ≥ 280 and BX...K ≥ 280, and it is mandatory when the motor is operated through a variable speed drive.

M11.21 Vertical Mounting

VM

NOTE: This option is mandatory for BY...K ≥ 280 and BX...K ≥ 200, when vertically mounted.
When VM is selected the motor is delivered with specific arrangements.
Furthermore, the vertical mounting position will also be reported on motor nameplate.

M11.22 Surface protection

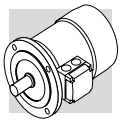
C_

When no specific protection class is requested, the painted (ferrous) surfaces of motors are protected to at least corrosivity class C2 (UNI EN ISO 12944-2). For improved resistance to atmospheric corrosion, motors can be delivered with C3 and C4 surface protection.

(F70)

SURFACE PROTECTION	Typical environments	Maximum surface temperature	Corrosivity class according to UNI EN ISO 12944-2
C3	Urban and industrial environments with up to 100% relative humidity (medium air pollution)	120°C [248 F°]	C3
C4	Industrial areas, coastal areas, chemical plant, with up to 100% relative humidity (high air pollution)	120°C [248 F°]	C4
C5M	Coast and offshore areas with high salt content.	120°C [248 F°]	C5M

Motors with optional protection to class C3 or C4 are available in a choice of colours. If no specific colour is requested (see the “PAINTING” option) motors are finished in RAL 7042 for BN/M, BE/ME and BX≤180/MX and in Munsell blue 8B 4.5/3.25 for BX...K ≥ 200 and BY...K ≥ 280.
Motors can also be supplied with surface protection for corrosivity class C5 according to UNI EN ISO 12944-2. Contact our Technical Service for further details.



M11.23 Painting

RAL

Gearboxes with optional protection to class C3 or C4 are available in the colours listed in the following table.

(F71)

PAINTING	Colour	RAL number
RAL7042*	Traffic Grey A	7042
RAL5010	Gentian Blue	5010
RAL9005	Jet Black	9005
RAL9006	White Aluminium	9006
RAL9010	Pure White	9010
Munsell blue 8B* 4.5/3.25	Blue	MUNSELL 8B 4.5/3.25
RAL7035	Light Grey	7035
RAL7001	Silver Grey	7001
RAL5015	Sky Blue	5015
RAL7037	Dusty Grey	7037
RAL5024	Pastel Blue	5024

* BX...K ≥ 200 and BY...K ≥ 280 Motors are standardly supplied in this colour with C3 protection unless specified diffrently.

NOTE – “PAINTING” options can only be specified in conjunction with “SURFACE PROTECTION” options.

M11.24 Certificates

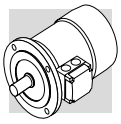
ACM

Certificate of compliance of motors
The document certifies the compliance of the product with the purchase order and the construction in conformity with the applicable procedures of the Bonfiglioli Quality System.

Note: Not available for BX...K≥200 and BY...K≥280

CC

Inspection certificate
The document entails checking on order compliance, the visual inspection of external conditions and instrumental testing of the electrical characteristics in unloaded conditions. Units inspected are sampled within the shipping batch and marked individually.



M12 TABLES OF MOTORS CORRELATION

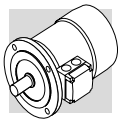
M12.1 50 Hz Motors

(F73)

2 pole							
Efficiency class		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09						
	0.12						
	0.18	BN 63A 2			M 05A 2		
	0.25	BN 63B 2			M 05B 2		
	0.37	BN 71A 2			M 05C 2		
	0.55	BN 71B 2			M 1SD 2		
	0.75	BN 71C 2	BE 80A 2		M 1LA 2	ME 2SA 2	
		BN 80A 2					
	1.1	BN 80B 2	BE 80B 2		M 2SA 2	ME 2SB 2	
	1.5	BN 90SA 2	BE 90SA 2		M 2SB 2		
	1.85	BN 90SB 2					
	2.2	BN 90L 2	BE 90L 2		M 3SA 2		
	3	BN 100L 2	BE 100L 2		M 3LA 2	ME 3LB 2	
	4	BN 112M 2	BE 112M 2		M 3LB 2		
	5.5	BN 132SA 2	BE 132SA 2		M 4SA 2	ME 4SA 2	
	7.5	BN 132SB 2	BE 132SB 2		M 4SB 2	ME 4LA 2	
	9.2	BN 132M 2	BE 132MB 2		M 4LA 2	ME 4LB 2	
	11	BN 160MR 2	BE 160MA 2		M 4LC 2	ME 5SA 2	
		BN 160M 2					
	15	BN 160MB 2	BE 160MB 2		M 5SB 2	ME 5SB 2	
	18.5	BN 160L 2	BE 160L 2		M 5SC 2	ME 5LA 2	
	22	BN 180M 2			M 5LA 2		
	30	BN 200LA 2					

(F72)

4 pole								
Efficiency class		IE1	IE2	IE3	IE4	IE1	IE2	IE3
Pn [kW]	0.06	BN 56A 4						
	0.09	BN 56B 4				M 0B 4		
	0.12	BN 63A 4	BE 63A 4	BX 63A 4		M 05A 4	ME 05A 4	MX 05A 4
	0.18	BN 63B 4	BE 63B 4	BX 63B 4		M 05B 4	ME 05B 4	MX 05B 4
	0.25	BN 63C 4		BX 63C 4		M 05C 4		BX 1SA 4
		BN 71A 4	BE 71A 4	BX 71A 4			ME 1SA 4	
	0.37	BN 71B 4	BE 71B 4	BX 71B 4		M 1SD 4	ME 1SB 4	BX 1SB 4
	0.55	BN 71C 4				M 1LA 4		BX 2SA 4
		BN 80A 4	BE 80A 4	BX 80A 4			ME 2SA 4	
	0.75	BN 80B 4	BE 80B 4	BX 80B 4		M 2SA 4	ME 2SB 4	MX 2SB 4
	1.1	BN 80C 4				M 2SB 4	ME 3SA 4	MX 3SA 4
		BN 90S 4	BE 90S 4	BX 90S 4				
	1.5	BN 90LA 4	BE 90LA 4	BX 90LA 4		M 3SA 4	ME 3SB 4	MX 3SB 4
	1.85	BN 90LB 4						
	2.2	BN 100LA 4	BE 100LA 4	BX 100LA 4		M 3LA 4	ME 3LA 4	MX 3LA 4
	3	BN 100LB 4	BE 100LB 4	BX 100LB 4		M 3LB 4	ME 3LB 4	MX 3LB 4
	4	BN 112M 4	BE 112M 4	BX 112M 4		M 3LC 4	ME 4SA 4	MX 4SA 4
	5.5	BN 132S 4	BE 132S 4	BX 132SB 4		M 4SA 4	ME 4SB 4	MX 4SB 4
	7.5	BN 132MA 4	BE 132MA 4	BX 132MA 4		M 4LA 4	ME 4LA 4	MX 4LA 4
	9.2	BN 132MB 4	BE 132MB 4	BX 160MA 4		M 4LB 4	ME 4LB 4	MX 5SA 4
	11	BN 160MR 4	BE 160M 4	BX 160MB 4		M 4LC 4	ME 5SA 4	MX 5SB 4
		BN 160M 4						
	15	BN 160L 4	BE 160L 4	BX 160L 4		M 5SB 4	ME 5LA 4	MX 5LA 4
	18.5	BN 180M 4	BE 180M 4	BX 180M 4		M 5LA 4		
	22	BN 180L 4	BE 180L 4	BX 180L 4				
	30	BN 200L 4		BX 200LAK 4				
	37			BX 225SAK 4				
	45			BX 225SBK 4				
	55			BX 250MAK 4				
	75			BX 280SAK 4	BY 280SCK 4			
	90			BX 280SBK 4	BY 280MAK 4			
	110			BX 315SAK 4	BY 315SCK 4			
	132			BX 315SBK 4	BY 315SDK 4			
	160			BX 315SCK 4	BY 315MBK 4			
	200			BX 355SAK 4	BY 355SAK 4			
	250			BX 355MAK 4				
	315			BX 355MBK 4				
	355			BX 355MCK 4				



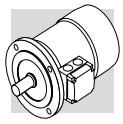
(F74)

6 pole							
Efficiency class		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09	BN 63A 6			M 05A 6		
	0.12	BN 63B 6			M 05B 6		
	0.18	BN 71A 6			M 1SC 6		
	0.25	BN 71B 6			M 1SD 6		
		BN 71C 6					
	0.37	BN 80A 6			M 1LA 6		
	0.55	BN 80B 6			M 2SA 6		
	0.75	BN 80C 6	BE 90S 6		M 2SB 6		
		BN 90S 6					
	1.1	BN 90L 6	BE 100M 6		M 3SA 6	ME 3LA 6	
	1.5	BN 100LA 6	BE 100LA 6		M 3LA 6	ME 3LB 6	
	1.85	BN 100LB 6			M 3LB 6		
	2.2	BN 112M 6	BE 112M 6		M 3LC 6		
	3	BN 132S 6	BE 132S 6		M 4SA 6	ME 4SB 6	
	4	BN 132MA 6	BE 132MA 6		M 4LA 6	ME 4LA 6	
	5.5	BN 132MB 6	BE 160MA 6		M 4LB 6	ME 5SA 6	
	7.5	BN 160M 6	BE 160MB 6		M 5SA 6	ME 5SB 6	
	9.2						
	11	BN 160L 6			M 5SB 6		
	15	BN 180L 6					
	18.5	BN 200LA 6					
	22						
	30						

M12.2 60 Hz Motors

(F75)

2 pole							
Efficiency class		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09						
	0.12						
	0.18	BN 63A 2			M 05A 2		
	0.25	BN 63B 2			M 05B 2		
	0.37	BN 71A 2			M 05C 2		
	0.55	BN 71B 2			M 1SD 2		
	0.75	BN 71C 2			M 1LA 2		
		BN 80A 2					
	1.1	BN 80B 2			M 2SA 2		
	1.5	BN 90SA 2			M 2SB 2		
	1.85	BN 90SB 2					
	2.2	BN 90L 2			M 3SA 2		
	3	BN 100L 2			M 3LA 2		
	3.7	BN 112M 2			M 3LB 2		
	5.5	BN 132SA 2			M 4SA 2		
	7.5	BN 132SB 2			M 4SB 2		
	9.2	BN 132M 2			M 4LA 2		
	11	BN 160MR 2			M 4LC 2		
		BN 160M 2					
	15	BN 160MB 2			M 5SB 2		
	18.5	BN 160L 2			M 5SC 2		
	22	BN 180M 2			M 5LA 2		
	30	BN 200LA 2					

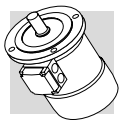


(F76)

4 pole								
Efficiency class		IE1	IE2	IE3	IE4	IE1	IE2	IE3
Pn [kW]	0.06	BN 56A 4						
	0.09	BN 56B 4				M 0B 4		
	0.12	BN 63A 4	BE 63A 4			M 05A 4		
	0.18	BN 63B 4	BE 63B 4			M 05B 4		
	0.25	BN 63C 4				M 05C 4		
		BN 71A 4	BE 71A 4					
	0.37	BN 71B 4	BE 71B 4			M 1SD 4		
	0.55	BN 71C 4				M 1LA 4		
		BN 80A 4	BE 80A 4					
	0.75	BN 80B 4	BE 80B 4	BX 90SR 4		M 2SA 4	ME 2SB 4	MX 2SB 4
	1.1	BN 80C 4	BE 90S 4	BX 90S 4		M 2SB 4	ME 3SA 4	MX 3SA 4
		BN 90S 4						
	1.5	BN 90LA 4	BE 90LA 4	BX 90LA 4		M 3SA 4	ME 3SB 4	MX 3SB 4
	1.85	BN 90LB 4						
	2.2	BN 100LA 4	BE 100LA 4	BX 100LA 4		M 3LA 4	ME 3LA 4	MX 3LA 4
	3	BN 100LB 4	BE 100LB 4	BX 100LB 4		M 3LB 4	ME 3LB 4	MX 3LB 4
	3.7	BN 112M 4	BE 112M 4	BX 112M 4		M 3LC 4	ME 4SA 4	MX 4SA 4
	5.5	BN 132S 4	BE 132S 4	BX 132SB 4		M 4SA 4	ME 4SB 4	MX 4SB 4
	7.5	BN 132MA 4	BE 132MA 4	BX 132MA 4		M 4LA 4	ME 4LA 4	MX 4LA 4
	9.2	BN 132MB 4	BE 132MB 4	BX 160MA 4		M 4LB 4	ME 4LB 4	MX 5SA 4
	11	BN 160MR 4	BE 160M 4	BX 160MB 4		M 4LC 4	ME 5SA 4	MX 5SB 4
		BN 160M 4						
	15	BN 160L 4	BE 160L 4	BX 160L 4		M 5SB 4	ME 5LA 4	MX 5LA 4
	18.5	BN 180M 4	BE 180M 4	BX 180M 4		M 5LA 4		
	22	BN 180L 4	BE 180L 4	BX 180L 4				
	30	BN 200L 4		BX 200LAK 4				
	37			BX 225SAK 4				
	45			BX 225SBK 4				
	55			BX 280SAK 4				
	75			BX 280SBK 4	BY 280SCK 4			
	90			BX 315SAK 4	BY 280MAK 4			
	110			BX 315SBK 4	BY 315SCK 4			
	132			BX 315SCK 4	BY 315SDK 4			
	160			BX 355SAK 4	BY 315MBK 4			
	200			BX 355SBK 4	BY 355SAK 4			
	250			BX 355SCK 4				
	315			BX 355MBK 4				
	355			BX 355MCK 4				

(F77)

6 pole							
Efficiency class		IE1	IE2	IE3	IE1	IE2	IE3
Pn [kW]	0.06						
	0.09	BN 63A 6			M 05A 6		
	0.12	BN 63B 6			M 05B 6		
	0.18	BN 71A 6			M 1SC 6		
	0.25	BN 71B 6			M 1SD 6		
		BN 71C 6					
	0.37	BN 80A 6			M 1LA 6		
	0.55	BN 80B 6			M 2SA 6		
	0.75	BN 80C 6			M 2SB 6		
		BN 90S 6					
	1.1	BN 90L 6			M 3SA 6		
	1.5	BN 100LA 6			M 3LA 6		
	1.85	BN 100LB 6			M 3LB 6		
	2.2	BN 112M 6			M 3LC 6		
	3	BN 132S 6			M 4SA 6		
	3.7	BN 132MA 6			M 4LA 6		
	5.5	BN 132MB 6			M 4LB 6		
	7.5	BN 160M 6			M 5SA 6		
	9.2						
	11	BN 160L 6			M 5SB 6		
	15	BN 180L 6					
	18.5	BN 200LA 6					
	22						
	30						



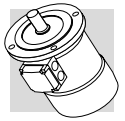
4 P	1500 min^{-1} - S1	50 Hz

P_n kW	P_n hp		n min^{-1}	M_n Nm	M_n lb·in	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	d.c. brake FDD Mod	M_b Nm	M_b lb·in	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	Standard CE+UL	BIS variant CE+UL+BIS	CN variant CE+UL+CEL	CN variant CE+UL+CCC
0.12	0.16	**BXN 63MA 4**	1407	0.8	7	0.47	64.8	60.3	52.5	0.58	3.4	2.9	1.7	H	2	0.0043	5	10	**FD 02**	1.75	15	8900	11000	2	0.0057	6	14	•	•		•
0.18	0.25	**BXN 63MB 4**	1373	1.3	12	0.61	69.9	68.8	63.3	0.61	3.5	3.1	1.8	G	3	0.0069	6	13	**FD 02**	3.5	31	7000	9000	4	0.0083	7	16	•	•		•
0.25	0.33	**BXN 71MA 4**	1388	1.7	15	0.67	73.5	72.8	67.9	0.74	4.8	1.6	2.4	H	6	0.0149	7	14	**FD 53**	5	44	5700	8100	7	0.0176	9	20	•	•		•
0.37	0.5	**BXN 71MB 4**	1419	2.5	22	1.05	77.3	76.0	70.8	0.66	6.3	2.6	2.5	L	10	0.0230	8	18	**FD 53**	5	44	6400	9900	11	0.0256	11	24	•	•		•
0.55	0.75	**BXN 80MA 4**	1447	3.6	32	1.31	80.8	80.9	77.4	0.75	6.1	1.9	1.6	J	18	0.0422	11	24	**FD 04**	10	89	2500	5200	20	0.0470	15	32	•	•		•
0.75	1	**BXN 80MB 4**	1451	4.9	43	1.63	82.5	85.1	82.5	0.78	7.4	2.4	2.0	K	29	0.0686	14	32	**FD 04**	15	133	2000	4100	31	0.0731	18	40	•	•	•	•
1.1	1.5	**BXN 90S 4**	1448	7.3	65	2.38	84.1	85.9	83.5	0.78	7.3	2.4	3.4	J	32	0.0754	16	34	**FD 05**	26	230	2800	6600	36	0.0850	22	48	•	•	•	•
1.5	2	**BXN 90L 4**	1441	9.9	88	3.44	85.3	84.3	81.7	0.75	6.7	2.6	2.4	J	35	0.0830	17	37	**FD 05**	26	230	1400	3100	39	0.0928	23	50	•	•	•	
2.2	3	**BXN 100LA 4**	1458	14.4	127	4.42	86.7	88.4	86.3	0.81	8.8	3.4	2.3	L	90	0.2136	30	65	**FD 15**	40	354	1400	2400	94	0.2231	37	80	•	•	•	
3	4	**BXN 100LB 4**	1452	19.7	174	6.14	87.7	88.0	86.2	0.80	8.1	3.2	3.0	K	90	0.2136	30	65	**FD 15**	40	354	2000	3700	94	0.2231	37	80	•	•	•	
4	5.4	**BXN 112M 4**	1453	26.3	233	7.97	88.6	88.8	87.1	0.82	7.6	2.7	2.8	J	105	0.2502	35	77	**FD 06S**	60	531	—	1400	114	0.2715	45	99	•	•	•	
5.5	7.5	**BXN 132S 4**	1476	35.6	315	11.00	89.6	91.4	90.0	0.79	9.8	4.0	3.4	L	497	1.1804	68	150	**FD 06**	100	885	—	750	520	1.2350	81	178	•	•	•	
7.5	10	**BXN 132M 4**	1473	48.6	430	15.10	90.4	91.0	89.5	0.79	9.2	3.7	3.2	L	497	1.1804	68	150	**FD 06**	100	885	—	570	520	1.2350	81	178	•	•	•	

Note: for more details on the available energy certifications look at the catalog's dedicated section.

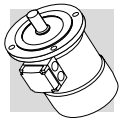
4 P	1800 min^{-1} - S1	60 Hz

																			d.c. brake FDD								Standard	Standard*	CN variant
P_n			n	M_n		In 460V	η%			cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5				
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs	CE + UL	CE + UL + INMETRO	CE + UL + CCC
0.12	0.16	**BXN 63MA 4**	1724	0.7	6	0.44	66	62.2	54.2	0.52	4.1	3.8	2.7	L	2	0.0043	5	10	**FD 02**	1.75	15	8900	11000	2	0.0057	6	14	•	•	•
0.18	0.25	**BXN 63MB 4**	1719	1.0	9	0.56	69.5	71.1	65.0	0.55	4.7	3.9	3.0	K	3	0.0069	6	13	**FD 02**	3.5	31	7000	9000	4	0.0083	7	16	•	•	•
0.25	0.33	**BXN 71MA 4**	1706	1.4	12	0.59	73.4	74.1	68.5	0.70	6.0	1.8	2.1	K	6	0.0149	7	14	**FD 53**	5	44	5700	8100	7	0.0176	9	20	•	•	•
0.37	0.5	**BXN 71MB 4**	1731	2.0	18	0.96	78.2	76.6	70.7	0.61	7.7	3.1	4.4	N	10	0.0230	8	18	**FD 53**	5	44	6400	9900	11	0.0256	11	24	•	•	•
0.55	0.75	**BXN 80MA 4**	1755	3.0	27	1.15	81.1	82.1	77.7	0.72	7.3	2.2	2.2	K	18	0.0422	11	24	**FD 04**	10	89	2500	5200	20	0.0470	15	32	•	•	•
0.75	1	**BXN 80MB 4**	1757	4.1	36	1.43	85.5	85.8	82.3	0.76	8.8	2.7	3.0	L	29	0.0686	14	32	**FD 04**	15	133	2000	4100	31	0.0731	18	40	•	•	•
1.1	1.5	**BXN 90S 4**	1754	6.0	53	2.10	86.5	86.6	83.5	0.75	8.5	2.7	2.9	L	32	0.0754	16	34	**FD 05**	26	230	2800	6600	36	0.0850	22	48	•	•	•
1.5	2	**BXN 90L 4**	1750	8.2	73	2.92	86.5	86.5	83.4	0.74	8.3	2.8	2.4	L	35	0.0830	17	37	**FD 05**	26	230	1400	3100	39	0.0928	23	50	•	•	
2.2	3	**BXN 100LA 4**	1765	11.9	105	3.89	89.5	89.6	87.1	0.79	10.5	3.8	2.8	M	90	0.2136	30	65	**FD 15**	40	354	520	1400	94	0.2231	37	80	•	•	
3	4	**BXN 100LB 4**	1761	16.3	144	5.37	89.5	89.5	87.1	0.78	9.8	3.6	4.4	M	90	0.2136	30	65	**FD 15**	40	354	—	890	94	0.2231	37	80	•	•	
4	5.4	**BXN 112M 4**	1762	20.1	178	6.59	89.5	89.2	86.6	0.78	9.3	3.1	3.3	L	105	0.2502	35	77	**FD 06S**	60	531	—	780	114	0.2715	45	99	•	•	
5.5	7.5	**BXN 132S 4**	1779	29.5	261	9.72	91.7	91.1	89.0	0.77	11.4	5.0	4.0	N	497	1.1804	68	150	**FD 06**	100	885	—	600	520	1.2350	81	178	•	•	
7.5	10	**BXN 132M 4**	1777	40.3	357	13.20	91.7	91.1	89.1	0.78	10.9	4.5	3.8	N	497	1.1804	68	150	**FD 06**	100	885	—	420	520	1.2350	81	178	•	•	



* on WD3 or WD4/WD10

4 P	1500 min^{-1} - S1	50 Hz

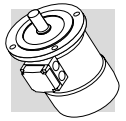


																		d.c. brake FDD									Standard	BIS variant	CN variant	
P_n			n	M_n		In 400V	η%			cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5					
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	$lb·ft^2$	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	$lb·ft^2$	Kg	lbs	CE + UL	CE + UL + BIS	CE + UL + CEL	CE + UL + CCC
0.12	0.16	**MXN 05MA 4**	1407	0.8	7	0.47	64.8	60.3	52.5	0.58	3.4	2.9	1.7	H	2	0.0043	5	10	**FD 02**	1.75	15	8900	11000	2	0.0057	6	14	•	•		•
0.18	0.25	**MXN 05MB 4**	1373	1.3	12	0.61	69.9	68.8	63.3	0.61	3.5	3.1	1.8	G	3	0.0069	6	13	**FD 02**	3.5	31	7000	9000	4	0.0083	7	16	•	•		•
0.25	0.33	**MXN 10MA 4**	1388	1.7	15	0.67	73.5	72.8	67.9	0.74	4.8	1.6	2.4	H	6	0.0149	7	14	**FD 53**	5	44	5700	8100	7	0.0176	9	20	•	•		•
0.37	0.5	**MXN 10MB 4**	1419	2.5	22	1.05	77.3	76.0	70.8	0.66	6.3	2.6	2.5	L	10	0.0230	8	18	**FD 53**	5	44	6400	9900	11	0.0256	11	24	•	•		•
0.55	0.75	**MXN 20MA 4**	1447	3.6	32	1.31	80.8	80.9	77.4	0.75	6.1	1.9	1.6	J	18	0.0422	11	24	**FD 04**	10	89	2500	5200	20	0.0470	15	32	•	•		•
0.75	1	**MXN 20MB 4**	1451	4.9	43	1.63	82.5	85.1	82.5	0.78	7.4	2.4	2.0	K	29	0.0686	14	32	**FD 04**	15	133	2000	4100	31	0.0731	18	40	•	•	•	•
1.1	1.5	**MXN 25S 4**	1448	7.3	65	2.38	84.1	85.9	83.5	0.78	7.3	2.4	3.4	J	32	0.0754	16	34	**FD 05**	26	230	2800	6600	36	0.0850	22	48	•	•	•	•
1.5	2	**MXN 25L 4**	1441	9.9	88	3.44	85.3	84.3	81.7	0.75	6.7	2.6	2.4	J	35	0.0830	17	37	**FD 05**	26	230	1400	3100	39	0.0928	23	50	•	•	•	
2.2	3	**MXN 30LA 4**	1458	14.4	127	4.42	86.7	88.4	86.3	0.81	8.8	3.4	2.3	L	90	0.2136	30	65	**FD 15**	40	354	1400	2400	94	0.2231	37	80	•	•	•	
3	4	**MXN 30LB 4**	1452	19.7	174	6.14	87.7	88.0	86.2	0.80	8.1	3.2	3.0	K	90	0.2136	30	65	**FD 15**	40	354	2000	3700	94	0.2231	37	80	•	•	•	
4	5.4	**MXN 35M 4**	1453	26.3	233	7.97	88.6	88.8	87.1	0.82	7.6	2.7	2.8	J	105	0.2502	35	77	**FD 06S**	60	531	—	1400	114	0.2715	45	99	•	•	•	
5.5	7.5	**MXN 40S 4**	1476	35.6	315	11.00	89.6	91.4	90.0	0.79	9.8	4.0	3.4	L	497	1.1804	68	150	**FD 06**	100	885	—	750	520	1.2350	81	178	•	•	•	
7.5	10	**MXN 40M 4**	1473	48.6	430	15.10	90.4	91.0	89.5	0.79	9.2	3.7	3.2	L	497	1.1804	68	150	**FD 06**	100	885	—	570	520	1.2350	81	178	•	•	•	

Note: for more details on the available energy certifications look at the catalog's dedicated section.

4 P	1800 min^{-1} - S1	60 Hz

P_n kW	P_n hp		n min^{-1}	M_n Nm	M_n lb·in	In 460V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	d.c. brake FDD Mod	M_b Nm	M_b lb·in	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	Standard CE + UL	Standard* CE + UL + INMETRO	CN variant CE + UL + CCC
0.12	0.16	**MXN 05MA 4**	1724	0.7	6	0.44	66	62.2	54.2	0.52	4.1	3.8	2.7	L	2	0.0043	5	10	**FD 02**	1.75	15	8900	11000	2	0.0057	6	14	•	•	•
0.18	0.25	**MXN 05MB 4**	1719	1.0	9	0.56	69.5	71.1	65.0	0.55	4.7	3.9	3.0	K	3	0.0069	6	13	**FD 02**	3.5	31	7000	9000	4	0.0083	7	16	•	•	•
0.25	0.33	**MXN 10MA 4**	1706	1.4	12	0.59	73.4	74.1	68.5	0.70	6.0	1.8	2.1	K	6	0.0149	7	14	**FD 53**	5	44	5700	8100	7	0.0176	9	20	•	•	•
0.37	0.5	**MXN 10MB 4**	1731	2.0	18	0.96	78.2	76.6	70.7	0.61	7.7	3.1	4.4	N	10	0.0230	8	18	**FD 53**	5	44	6400	9900	11	0.0256	11	24	•	•	•
0.55	0.75	**MXN 20MA 4**	1755	3.0	27	1.15	81.1	82.1	77.7	0.72	7.3	2.2	2.2	K	18	0.0422	11	24	**FD 04**	10	89	2500	5200	20	0.0470	15	32	•	•	•
0.75	1	**MXN 20MB 4**	1757	4.1	36	1.43	85.5	85.8	82.3	0.76	8.8	2.7	3.0	L	29	0.0686	14	32	**FD 04**	15	133	2000	4100	31	0.0731	18	40	•	•	•
1.1	1.5	**MXN 25S 4**	1754	6.0	53	2.10	86.5	86.6	83.5	0.75	8.5	2.7	2.9	L	32	0.0754	16	34	**FD 05**	26	230	2800	6600	36	0.0850	22	48	•	•	•
1.5	2	**MXN 25L 4**	1750	8.2	73	2.92	86.5	86.5	83.4	0.74	8.3	2.8	2.4	L	35	0.0830	17	37	**FD 05**	26	230	1400	3100	39	0.0928	23	50	•	•	
2.2	3	**MXN 30LA 4**	1765	11.9	105	3.89	89.5	89.6	87.1	0.79	10.5	3.8	2.8	M	90	0.2136	30	65	**FD 15**	40	354	520	1400	94	0.2231	37	80	•	•	
3	4	**MXN 30LB 4**	1761	16.3	144	5.37	89.5	89.5	87.1	0.78	9.8	3.6	4.4	M	90	0.2136	30	65	**FD 15**	40	354	—	890	94	0.2231	37	80	•	•	
4	5.4	**MXN 35M 4**	1762	20.1	178	6.59	89.5	89.2	86.6	0.78	9.3	3.1	3.3	L	105	0.2502	35	77	**FD 06S**	60	531	—	780	114	0.2715	45	99	•	•	
5.5	7.5	**MXN 40S 4**	1779	29.5	261	9.72	91.7	91.1	89.0	0.77	11.4	5.0	4.0	N	497	1.1804	68	150	**FD 06**	100	885	—	600	520	1.2350	81	178	•	•	
7.5	10	**MXN 40M 4**	1777	40.3	357	13.20	91.7	91.1	89.1	0.78	10.9	4.5	3.8	N	497	1.1804	68	150	**FD 06**	100	885	—	420	520	1.2350	81	178	•	•	

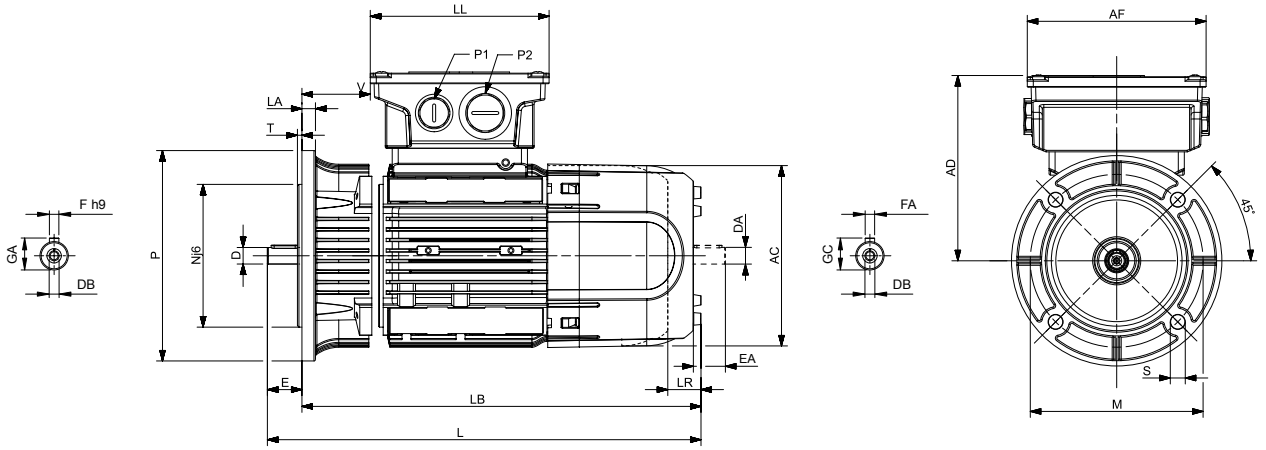


* on WD3 or WD4/WD10

[mm]

M14 MOTORS DIMENSIONS BXN-MXN

BXN - IM B5

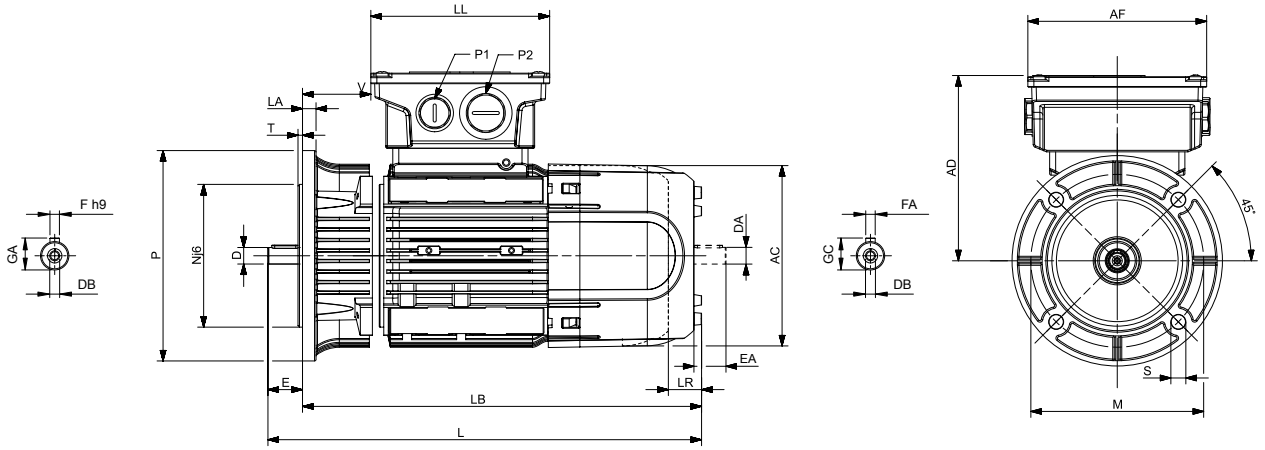


	Shaft					Housing					
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**
BXN 63	11 9(1)	23 20(1)	M4 M3(1)	12.5 10.2(1)	4 3(1)	115	95	140	9.5	3	9
BXN 71	14 11(1)	30 23(1)	M5 M4(1)	16 12.5(1)	5 4(1)	130	110	160		3.5	
BXN 80	19 14(1)	40 30(1)	M6 M5(1)	21.5 16(1)	6 5(1)	165	130	200	11.5		10
BXN 90	24 19(1)	50 40(1)	M8 M6(1)	27 21.5(1)	8 6(1)						
BXN 100	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)	215	180	250	14	4	11
BXN 112	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)						
BXN 132	38 28(1)	80 60(1)	M12 M10(1)	41 31(1)	10 8(1)	265	230	300			12

	Motor											
	AC	**L**		**LB**		**LC**		**LR**	**AD**	**AF**	**LL**	**V**
		(sheet metal)	**(plastic)**	**(sheet metal)**	**(plastic)**	**(sheet metal)**	**(plastic)**					
BXN 63	122	259	281	236	258	282	304,0	22	136	112	165	37
BXN 71	138	272	292	242	261.5	302	322,0	19.5	138			34
BXN 80	158	329.7	346	289.7	306	369.7	386,0	16.3	148			40
BXN 90	177	338.5	365	288.5	315	388.5	415,0	26.5	170		170	43
BXN 100	192	418	-	358	-	478	-	-	179	122	170	42
BXN 112	220	421.5	-	361.5	-	481.5	-	-	191			62
BXN 132	255	533.4	-	453.4	-	613.4	-	-	216	148	192	63

N.B.: 1) These values refer to the rear shaft end (PS).

BXN - IM B5



Dimensions are in Inch except when shown in *italic [mm]*

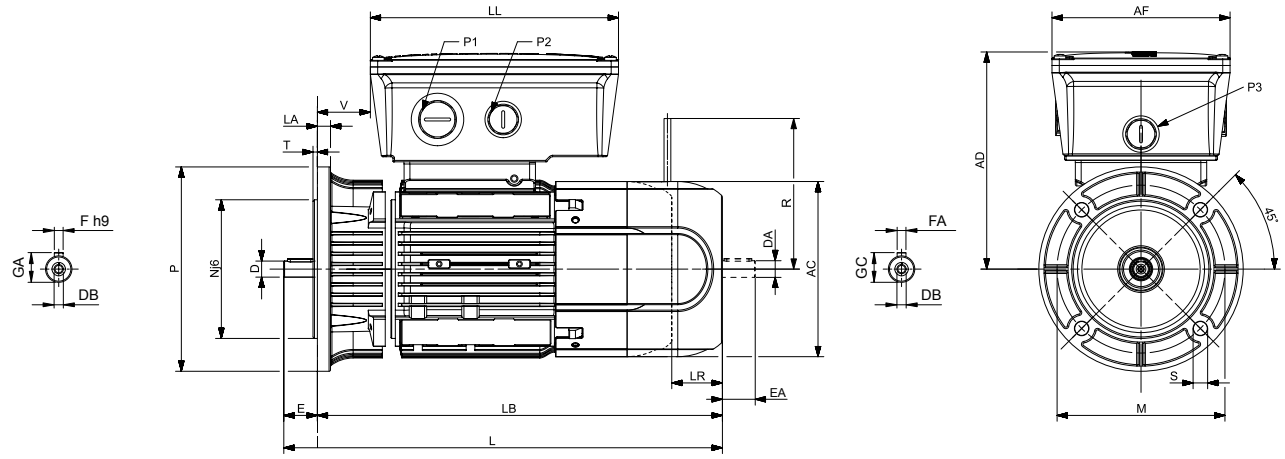
	Shaft					Housing					
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**
BXN 63	0.433 0.354(1)	0.906 0.787(1)	*M4* *M3(1)*	0.492 0.402(1)	0.157 0.118(1)	4.528	3.74	5.512	0.374	0.118	0.354
BXN 71	0.551 0.433(1)	1.181 0.906(1)	*M5* *M4(1)*	0.630 0.492(1)	0.197 0.157(1)	5.118	4.331	6.299		0.138	
BXN 80	0.748 0.551(1)	1.575 1.181(1)	*M6* *M5(1)*	0.846 0.630(1)	0.236 0.197(1)	6.496	5.118	7.874	0.453		0.394
BXN 90	0.945 0.748(1)	1.969 1.575(1)	*M8* *M6(1)*	1.063 0.846(1)	0.315 0.236(1)						
BXN 100	1.102 0.945(1)	2.362 1.969(1)	*M10* *M8(1)*	1.220 1.063(1)	0.315 0.315(1)	8.465	7.087	9.843	0.551	0.157	0.433
BXN 112											
BXN 132	1.496 1.102(1)	3.150 2.362(1)	*M12* *M10(1)*	1.614 1.220(1)	0.394 0.315(1)	10.433	9.055	11.811			0.472

	Motor											
	AC	**L**		**LB**		**LC**		**LR**	**AD**	**AF**	**LL**	**V**
		(sheet metal)	**(plastic)**	**(sheet metal)**	**(plastic)**	**(sheet metal)**	**(plastic)**					
BXN 63	4.803	10.197	11.063	9.291	10.157	10.984	11.850	0.866	4.815	4.685	4.685	1.496
BXN 71	5.433	10.709	11.496	9.528	10.295	11.615	12.402	0.768	4.854	4.685	4.685	1.378
BXN 80	6.220	12.980	13.622	11.406	12.047	14.161	14.803	0.642	5.228	4.685	4.685	1.614
BXN 90	6.969	13.327	14.370	11.358	12.402	14.902	15.945	1.043	5.661	5.039	5.039	1.850
BXN 100	7.559	16.457	-	14.094	-	18.426	-	-	5.996	5.039	5.039	1.811
BXN 112	8.661	16.594	-	14.232	-	18.563	-	-	6.449	5.039	5.039	2.579
BXN 132	10.039	21.000	-	17.850	-	23.362	-	-	8.386	5.795	7.559	2.480

N.B.: 1) These values refer to the rear shaft end (PS).

[mm]

BXN - IM B5 - FDD

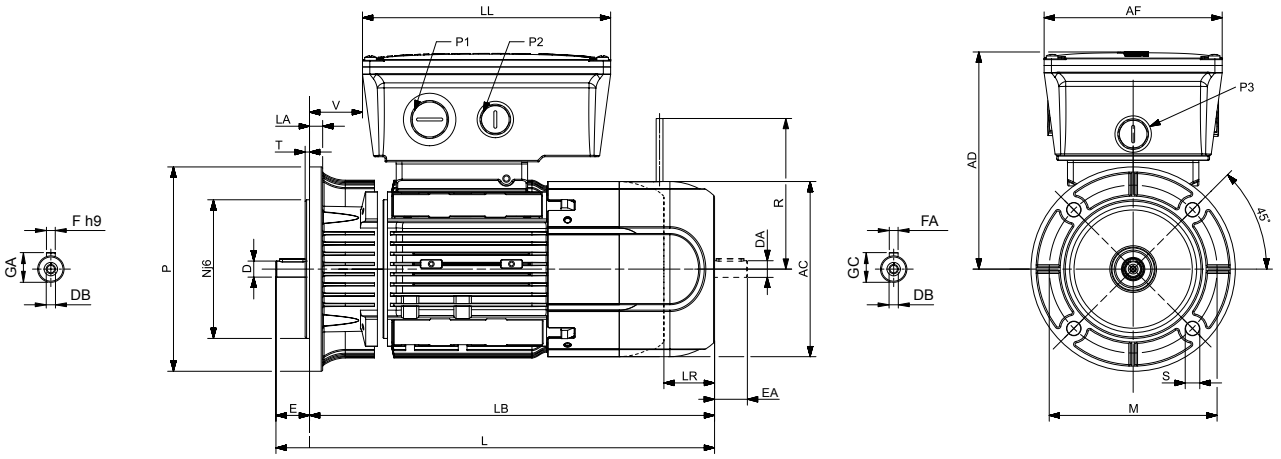


	Shaft					Housing					
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**
BXN 63	11 9(1)	23 20(1)	M4 M3(1)	12.5 10.2(1)	4 3(1)	115	95	140	9.5	3	9
BXN 71	14 11(1)	30 23(1)	M5 M4(1)	16 12.5(1)	5 4(1)	130	110	160		3.5	
BXN 80	19 14(1)	40 30(1)	M6 M5 1)	21.5 16(1)	6 5(1)	165	130	200	11.5		10
BXN 90	24 19(1)	50 40(1)	M8 M6(1)	27 21.5(1)	8 6(1)						
BXN 100	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)	215	180	250	14	4	11
BXN 112	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)						
BXN 132	38 28(1)	80 60(1)	M12 M10(1)	41 31(1)	10 8(1)	265	230	300			12

	Motor												
	AC	**L**		**LB**		**LC**		**LR**	**AD**	**AF**	**LL**	**V**	**R**
		(sheet metal)	**(plastic)**	**(sheet metal)**	**(plastic)**	**(sheet metal)**	**(plastic)**						**FDD**
BXN 63	122	293.7	328	270.7	305	316.7	351	34.3	136	112	165	37	106
BXN 71	138	316.1	351	286.1	321	346.1	381	34.9	138			34	106
BXN 80	158	378.8	417	338.8	377	418.8	457	38.2	148			40	115
BXN 90	177	388.5	-	338.5	-	438.5	-	-	170		170	43	131
BXN 100	192	475	-	415	-	535	-	-	179	122	170	42	161
BXN 112	220	489.5	-	429.5	-	549.5	-	-	191			62	193
BXN 132	255	606.9	-	527.4	-	686.9	-	-	216	148	192	63	239

N.B.: 1) These values refer to the rear shaft end (PS).

BXN - IM B5 - FDD



Dimensions are in Inch except when shown in *italic [mm]*

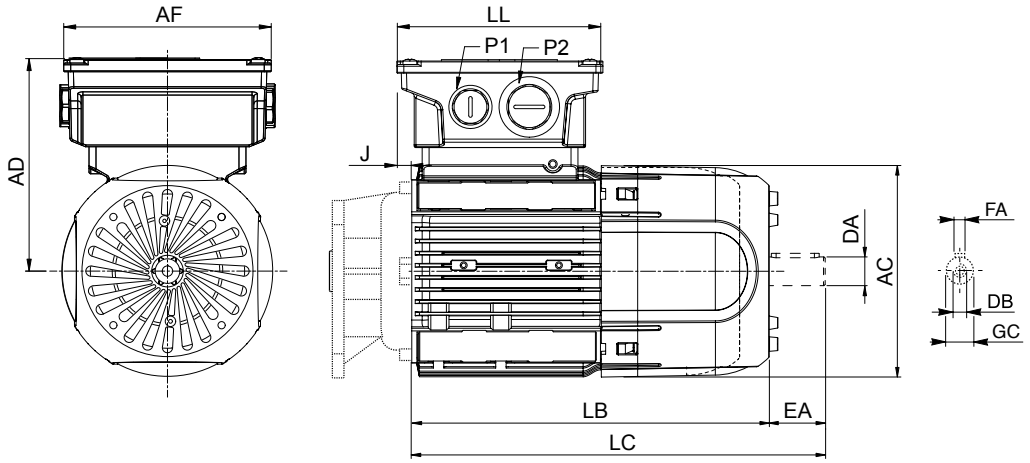
	Shaft					Housing					
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**
BXN 63	0.433 0.354(1)	0.906 0.787(1)	*M4 M3(1)*	0.492 0.402(1)	0.157 0.118(1)	4.528	3.74	5.512	0.374	0.118	0.354
BXN 71	0.551 0.433(1)	1.181 0.906(1)	*M5 M4(1)*	0.630 0.492(1)	0.197 0.157(1)	5.118	4.331	6.299		0.138	
BXN 80	0.748 0.551(1)	1.575 1.181(1)	*M6 M5(1)*	0.846 0.630(1)	0.236 0.197(1)	6.496	5.118	7.874	0.453		0.394
BXN 90	0.945 0.748(1)	1.969 1.575(1)	*M8 M6(1)*	1.063 0.846(1)	0.315 0.236(1)						
BXN 100	1.102 0.945(1)	2.362 1.969(1)	*M10 M8(1)*	1.220 1.063(1)	0.315 0.315(1)	8.465	7.087	9.843	0.551	0.157	0.433
BXN 112											
BXN 132	1.496 1.102(1)	3.150 2.362(1)	*M12 M10(1)*	1.614 1.220(1)	0.394 0.315(1)	10.433	9.055	11.811			0.472

	Motor												
	AC	**L**		**LB**		**LC**		**LR**	**AD**	**AF**	**LL**	**V**	**R**
		(sheet metal)	**(plastic)**	**(sheet metal)**	**(plastic)**	**(sheet metal)**	**(plastic)**						**FDD**
BXN 63	4.803	11.563	12.913	10.657	12.008	12.35	13.700	1.350	5.354	4.409	6.496	1.457	4.173
BXN 71	5.433	12.445	13.819	11.264	12.638	13.351	14.725	1.374	5.433	4.409	6.496	1.339	4.173
BXN 80	6.220	14.913	16.417	13.339	14.843	16.094	17.598	1.504	5.827	4.409	6.496	1.575	4.528
BXN 90	6.969	15.295	-	13.327	-	16.87	-	-	6.693	4.803	6.693	1.693	5.157
BXN 100	7.559	18.701	-	16.339	-	20.67	-	-	7.047	4.803	6.693	1.654	6.339
BXN 112	8.661	19.272	-	16.909	-	21.241	-	-	7.520	4.803	6.693	2.441	7.598
BXN 132	10.039	23.894	-	20.764	-	26.256	-	-	8.504	5.795	7.559	2.480	9.409

N.B.: 1) These values refer to the rear shaft end (PS).

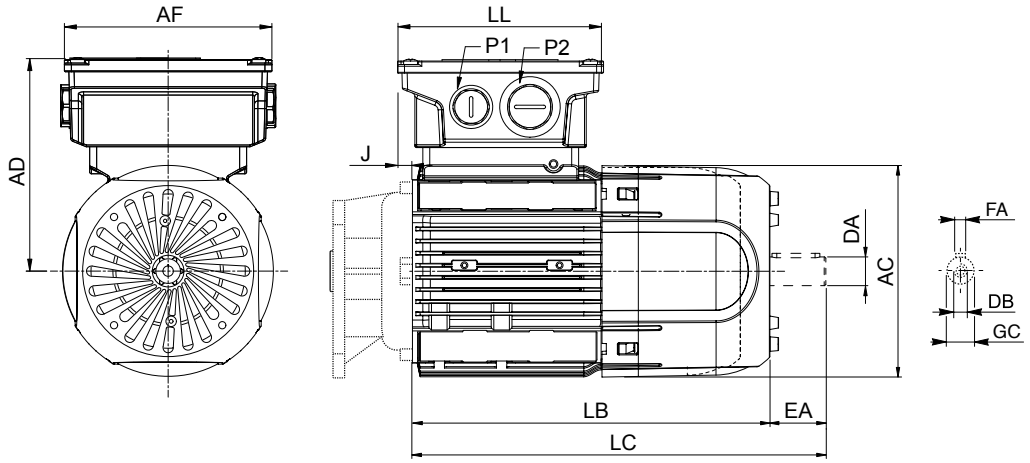
[mm]

MXN



	Rear shaft end					Motor								
	DA	EA	DB	FA	GC	AC	LB (metal sheet)	LB (plastic)	LC (metal sheet)	LC (plastic)	AF	LL	J	AD
MXN 05	9	20	M3	3	10.2	122	189.5	211.5	209.5	231.5	119	119	8.5	122.3
MXN 10	11	23	M4	4	12.5	138	196.5	216	219.5	239	119	119	9.9	123.3
MXN 20	14	30	M5	5	16	158	239.2	255.5	269.2	285.5	119	119	9.5	132.8

MXN



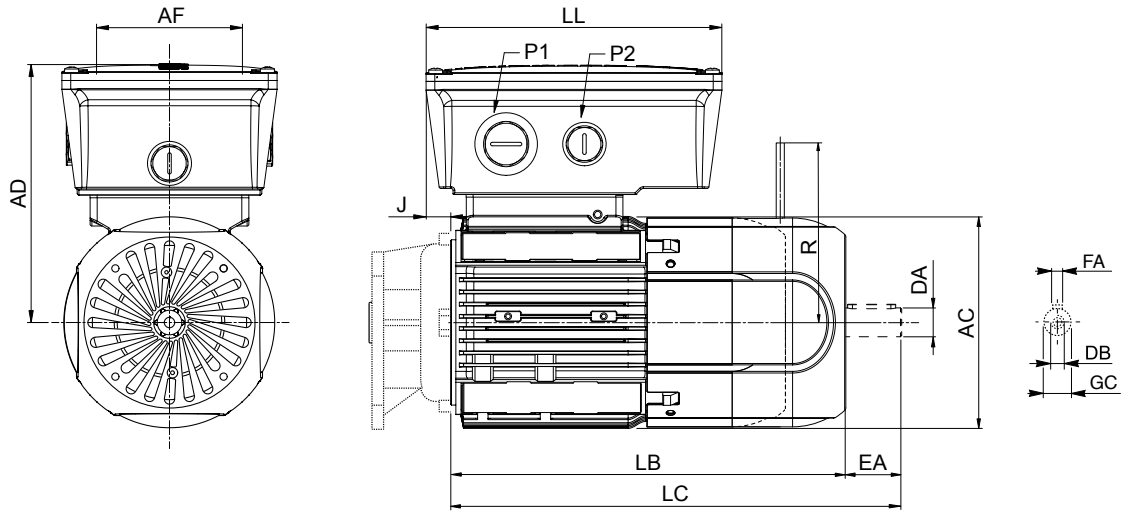
Dimensions are in Inch except when shown in *italic [mm]*

	Rear shaft end					Motor								
	DA	EA	DB	FA	GC	AC	LB		LC		AF	LL	J	AD
							(metal sheet)	(plastic)	(metal sheet)	(plastic)				
MXN 05	0.433 *0.354*(1)	0.906 *0.787*(1)	M4 M3(1)	0.492 *0.402*(1)	0.157 *0.118*(1)	4.803	7.461	8.327	8.248	9.114	4.685	4.685	0.335	4.815
MXN 10	0.551 *0.433*(1)	1.181 *0.906*(1)	M5 M4(1)	0.630 *0.492*(1)	0.197 *0.157*(1)	5.433	7.736	8.504	8.523	9.291	4.685	4.685	0.390	4.854
MXN 20	0.748 *0.551*(1)	1.575 *1.181*(1)	M6 M5(1)	0.846 *0.630*(1)	0.236 *0.197*(1)	6.220	9.417	10.059	10.846	11.385	4.685	4.685	0.374	5.228

N.B.: 1) These values refer to the rear shaft end (PS).

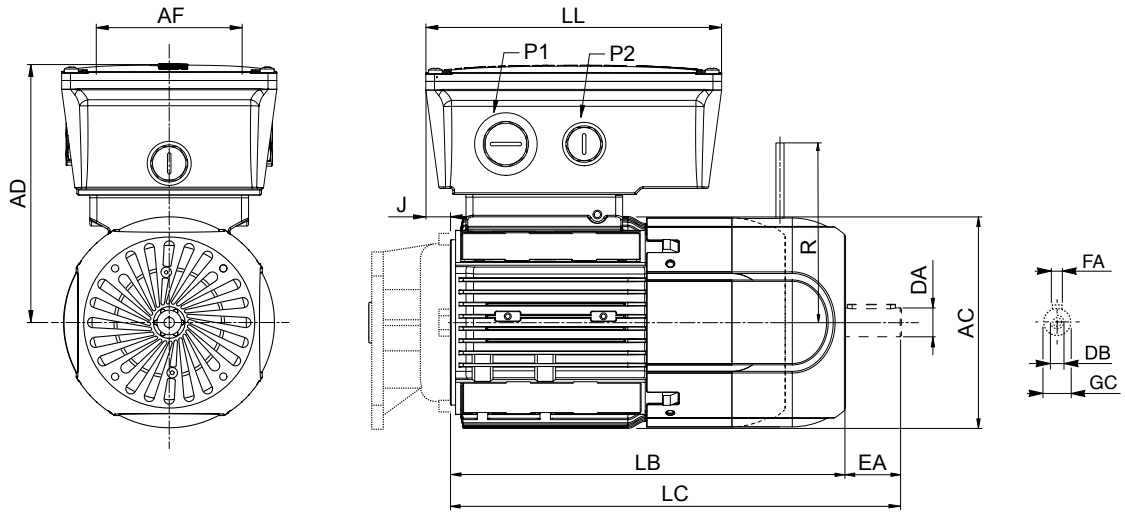
[mm]

MXN - FDD



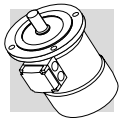
	Rear shaft end					Motor									
	DA	EA	DB	FA	GC	AC	LB (metal sheet)	LB (plastic)	LC (metal sheet)	LC (plastic)	AF	LL	J	AD	R FDD
MXN 05	9	20	M3	3	10.2	122	204.2	238.5	224.2	258.5	112	165	9.5	136	106
MXN 10	11	23	M4	4	12.5	138	217.1	252	240.1	275	112	165	11.5	138	106
MXN 20	14	30	M5	5	16	158	258.3	296.5	288.3	326.5	112	165	10.5	148	115

MXN - FDD



Dimensions are in Inch except when shown in *italic [mm]*

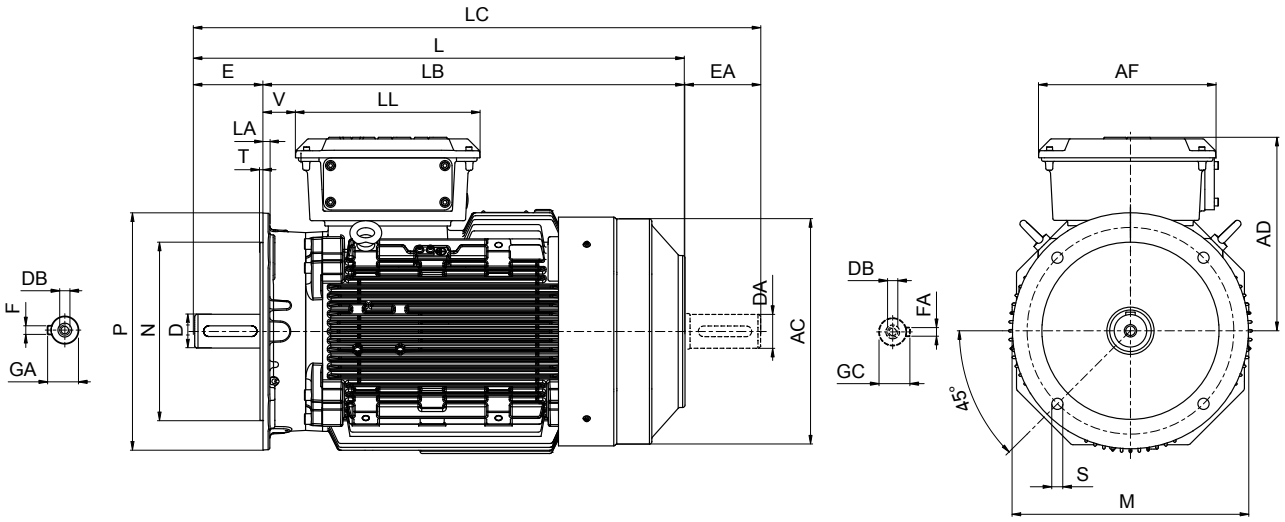
	Rear shaft end					Motor									
	DA	EA	DB	FA	GC	AC	LB		LC		AF	LL	J	AD	R
							(metal sheet)	(plastic)	(metal sheet)	(plastic)					FDD
MXN 05	0.433 0.354(1)	0.906 0.787(1)	*M4* *M3(1)*	0.492 0.402(1)	0.157 0.118(1)	4.803	8.827	10.177	9.614	10.964	4.409	6.496	0.374	5.354	4.173
MXN 10	0.551 0.433(1)	1.181 0.906(1)	*M5* *M4(1)*	0.630 0.492(1)	0.197 0.157(1)	5.433	9.453	10.827	10.24	11.614	4.409	6.496	0.453	5.433	4.173
MXN 20	0.748 0.551(1)	1.575 1.181(1)	*M6* *M5(1)*	0.846 0.630(1)	0.236 0.197(1)	6.220	11.350	12.854	12.137	13.641	4.409	6.496	0.413	5.827	4.528



4 P	1500 min^{-1} - S1	50 Hz

																			d.c. brake							Standard
																			FD							
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		J_m x 10^{-4}		IM B5		CE
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	kgm^2	lb·ft^2	Kg	lbs	
75	101	**BY 280SCK 4**	1487	481	4257	130	96.0	96.4	96.1	0.86	7.8	2.8	2.9	N/A	1.90	0.0045	725	1598	**FD 100**	1000	8850	1.89	0.0045	831	1832	•
90	121	**BY 280MAK 4**	1489	577	5106	165	96.1	96.1	95.1	0.82	8.9	2.8	3.2	N/A	2.30	0.0055	840	1852	**FD 100**	1000	8850	2.35	0.0056	946	2086	•
110	148	**BY 315SCK 4**	1491	704	6230	194	96.3	96.5	96.1	0.85	7.8	2.4	3.1	N/A	2.90	0.0069	1000	2205	**FD 100**	1000	8850	2.94	0.0070	1106	2438	•
132	177	**BY 315SDK 4**	1490	846	7487	238	96.4	96.4	95.4	0.83	8.9	2.6	3.1	N/A	3.20	0.0076	1065	2348	**FD 160**	1600	14160	3.25	0.0077	1233	2718	•
160	215	**BY 315MBK 4**	1490	1028	9098	278	96.6	96.8	96.4	0.86	8.1	2.8	3.0	N/A	3.90	0.0093	1220	2690	**FD 160**	1600	14160	3.95	0.0094	1388	3060	•
200	268	**BY 355SAK 4**	1491	1281	11337	345	96.7	96.7	96.2	0.87	7.3	2.4	2.7	N/A	5.90	0.0140	1610	3549	**FD 250**	2500	22125	5.95	0.0141	1778	3920	•

BY - IM B5



[mm]

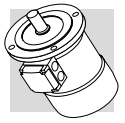
	Shaft					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BY 280SCK	75 65(1)	140 140(1)	M20 M20(1)	79.5 69 (1)	20 18(1)	500	450	550	18	5	23	567	1086	946	1236	482	434	306	43
BY 280MAK													1190	1050	1340	505			
BY 315SCK	80 75(1)	170 140(1)	M20 M20(1)	85 79.5(1)	22 20(1)	600	550	660	23	6	25	645	1202	1032	1350	537	473	347	42
BY 315SDK																			
BY 315MBK													1313	1143	1451				
BY 355SAK	100 75(1)	210 170(1)	M24 M20(1)	106 79.5(1)	28 20(1)	740	680	800				740	1479	1269	1651	603	694	413	50

Dimensions are in Inch except when shown in *italic [mm]*

[inch]

	Shaft					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BY 280SCK	2.953 2.559(1)	5.512 5.512(1)	*M20 M20(1)*	3.130 2.717(1)	0.787 0.709(1)	19.685	17.717	21.654	0.709	0.197	0.906	22.323	42.756	37.244	48.661	18.976	17.087	12.047	1.693
BY 280MAK													46.850	41.339	52.756	19.882			
BY 315SCK	3.150 2.953(1)	6.693 5.512(1)		3.346 3.130(1)	0.866 0.787(1)	23.622	21.654	25.984	0.906	0.236	0.984	25.394	47.323	40.630	53.150	21.142	18.622	13.661	1.654
BY 315SDK																			
BY 315MBK													51.693	45.000	57.126				
BY 355SAK	3.937 2.953(1)	8.268 6.693(1)	*M24 M20(1)*	4.173 3.130(1)	1.102 0.787(1)	29.134	26.772	31.496				29.134	58.228	49.961	65.000	23.740	27.323	16.260	1.969

N.B.: 1) These values refer to the rear shaft end (PS).



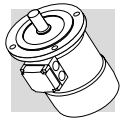
4 P	1500 min^{-1} - S1	50 Hz

P_n kW	P_n hp		n min^{-1}	M_n Nm	M_n lb·in	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	d.c. brake FD Mod	M_b Nm	M_b lb·in	Z_o 1/h NB	Z_o 1/h SP	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	CE	CE + BIS	CE + CEL
0.12	0.16	**BX 63A 4**	1365	0.8	7.4	0.45	64.8	60	52.9	0.64	2.9	2.4	1.7	G	1.8	0.0043	3.2	7	**FD 02**	1.75	15	8900	11000	2.4	0.0057	4.9	11	•	•	
0.18	0.25	**BX 63B 4**	1370	1.3	11.1	0.57	69.9	69.5	65.9	0.63	3.6	2.6	1.8	G	2.9	0.0069	5.1	11	**FD 02**	3.5	31	7000	9000	3.5	0.0083	6.8	12	•	•	
0.25	0.33	**BX 63C 4**	1390	1.7	15.5	0.78	73.5	71.0	65.6	0.64	3.9	3.0	2.5	H	4.3	0.0102	5.4	12	**FD 02**	3.5	31	7800	10000	4.9	0.0116	7.0	16	•	•	
0.25	0.33	**BX 71A 4**	1400	1.7	15.5	0.63	73.5	76.0	72.6	0.77	4.3	2.3	2.3	G	6.3	0.0150	5.7	13	**FD 03**	3.5	31	5400	7800	8.4	0.0190	8.4	19	•	•	
0.37	0.55	**BX71B 4**	1420	2.5	22.0	1.0	77.3	78.1	73.8	0.71	5.9	3.4	3.1	J	10	0.0230	7.3	16	**FD 03**	5	44	7000	10000	11.8	0.0280	10	22	•	•	
0.55	0.75	**BX 80A 4**	1425	3.7	33	1.2	80.8	78.6	75.2	0.81	6.8	3.5	2.7	J	28	0.0664	12.2	26.9	**FD 04**	15	133	2400	4700	29.6	0.0702	16	36	•	•	
0.75	1	**BX 80B 4**	1425	5.0	44.5	1.61	82.5	83.9	83.2	0.81	6.5	2.0	1.8	J	35	0.0831	16	35	**FD 04**	15	133	1700	3300	37	0.0878	20	44	•	•	
1.1	1.5	**BX 90S 4**	1425	7.4	65.2	2.44	84.1	84.1	82.0	0.77	6.9	3.4	2.2	J	27	0.0641	16	35	**FD 14**	15	133	3700	6200	29	0.0688	20	44	•	•	
1.5	2	**BX 90LA 4**	1420	10.1	89.3	3.3	85.3	86.2	84.9	0.78	6.3	3.1	1.9	J	31	0.0736	17	37	**FD 05**	26	230	2400	4300	35	0.0831	23	51	•	•	
2.2	3	**BX 100LA 4**	1445	14.5	129	5.1	86.7	86.2	84.0	0.72	7.2	3.6	2.4	K	58	0.1376	24	53	**FD 15**	40	354	1500	2800	62	0.1471	31	68	•	•	•
3	4	**BX 100LB 4**	1445	19.8	175	6.7	87.7	87.7	86.0	0.74	7.6	3.9	2.6	K	73	0.1732	29	64	**FD 15**	40	354	1500	2700	77	0.1827	36	79	•	•	•
3.7	5	**BX 112M 4**	1450	24.4	216	7.6	88.4	89.7	87.7	0.79	8.6	4.0	2.5	L	130	0.3085	38	84	**FD 06S**	60	531	—	1100	139	0.3299	48	106		•	
4	5.4	**BX 112M 4**	1445	26.0	234	8.1	88.6	88.9	87.6	0.80	8.1	3.8	2.5	J	130	0.3085	38	84	**FD 06S**	60	531	—	1100	139	0.3299	48	106	•		•
5.5	7.5	**BX 132SB 4**	1460	36.0	318	10.6	89.6	89.2	88.8	0.83	8.2	3.6	2.3	J	310	0.7356	57	126	**FD 56**	75	664	—	700	320	0.7594	70	154	•	•	•
7.5	10	**BX 132MA 4**	1460	49.0	434	15.0	90.4	90.9	90.2	0.80	8.4	3.8	2.5	K	360	0.8543	67	148	**FD 06**	100	885	—	700	370	0.8780	80	176	•	•	•
9.2	12.5	**BX 160MA 4**	1465	60.0	531	17.8	91.0	92.1	91.7	0.82	7.9	3.6	2.1	J	650	1.5425	95	209	**FD 08**	170	1505	—	620	725	1.7205	125	276	•		•
11	15	**BX 160MB 4**	1465	71.7	635	20.5	91.4	92.9	92.5	0.84	7.8	3.4	1.9	J	780	1.8509	110	243	**FD 08**	170	1505	—	470	855	2.0289	140	309	•		•
15	20	**BX 160L 4**	1465	98.0	865	28.1	92.1	93.2	92.6	0.82	9.0	4.1	2.3	K	890	2.1120	121	267	**FD 08**	200	1770	—	510	965	2.2900	151	333	•		•
18.5	25	**BX 180M 4**	1480	119	1056	32.9	92.6	94.1	93.1	0.85	11.3	2.6	2.3	M	1560	3.7019	155	342	**FD 09**	300	2655	—	440	1760	4.1765	195	430	•		•
22	30	**BX 180L 4**	1475	142	1261	38.2	93.0	93.6	92.8	0.88	10.2	2.5	2.0	L	1660	3.9392	163	359	**FD 09**	300	2655	—	250	1860	4.4138	203	448	•		•

Note: for more details on the available energy certifications look at the catalog's dedicated section.

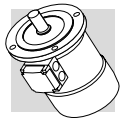
4 P	1500 min^{-1} - S1	50 Hz

																			d.c. brake FD						Standard	BIS variant	CEL variant
P_n			n	M_n		In 400V	η%			cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		J_m x 10^{-4}		IM B5		CE	CE + BIS	CE + CEL
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	kgm^2	lb·ft^2	Kg	lbs			
30	40	**BX 200LAK 4**	1483	193	1708	55.7	94.7	95.1	95.0	0.82	8.3	3.0	3.3	N/A	0.37	0.0009	319	703	**FD 8**	400	3540	0.39	0.0009	337	743	•	•	•
37	50	**BX 225SAK 4**	1482	238	2106	65.9	95.1	95.5	95.4	0.85	7.7	2.8	3.1	N/A	0.54	0.0013	398	877	**FD 9**	600	5310	0.57	0.0014	426	939	•	•	•
45	60	**BX 225SBK 4**	1481	290	2567	80.4	95.2	95.6	95.6	0.85	7.9	2.8	3.2	N/A	0.54	0.0013	398	877	**FD 9**	600	5310	0.57	0.0014	426	939	•	•	•
55	74	**BX 250MAK 4**	1485	354	3133	98.9	95.6	95.8	95.5	0.84	7.9	3.0	3.3	N/A	0.93	0.0022	476	1049	**FD10**	800	7080	1.01	0.0024	521	1149	•	•	•
75	101	**BX 280SAK 4**	1487	482	4266	134.0	95.9	96.2	96.1	0.84	7.3	2.5	2.8	N/A	1.50	0.0036	665	1466	**FD 100**	1000	8850	1.54	0.0036	771	1700	•	•	•
90	121	**BX 280SBK 4**	1487	578	5115	161.0	96.2	96.4	96.1	0.84	7.9	2.9	3.0	N/A	1.85	0.0044	725	1598	**FD 100**	1000	8850	1.89	0.0045	831	1832	•	•	•
110	148	**BX 315SAK 4**	1491	704	6230	194.0	96.8	97.0	96.7	0.84	8.3	2.4	3.1	N/A	2.90	0.0069	1000	2205	**FD 100**	1000	8850	2.94	0.0070	1106	2438	•	•	•
132	177	**BX 315SBK 4**	1490	846	7487	234.0	96.9	97.1	96.8	0.84	8.1	2.6	3.2	N/A	3.20	0.0076	1065	2348	**FD 160**	1600	14160	3.25	0.0077	1233	2718	•	•	•
160	215	**BX 315SCK 4**	1490	1025	9071	279.0	96.7	96.9	96.6	0.86	8.2	2.7	3.0	N/A	3.90	0.0093	1220	2690	**FD 160**	1600	14160	3.95	0.0094	1388	3060	•	•	•
200	268	**BX 355SAK 4**	1491	1281	11337	345.0	96.6	96.7	96.4	0.87	7.3	2.1	2.7	N/A	5.90	0.0140	1610	3549	**FD 250**	2500	22125	5.95	0.0141	1778	3920	•	•	•
250	335	**BX 355MAK 4**	1491	1601	14169	435.0	96.0	96.0	95.6	0.86	6.4	2.1	2.9	N/A	6.90	0.0164	1780	3924	**FD 250**	2500	22125	6.95	0.0165	1948	4295	•	•	•
315	422	**BX 355MBK 4**	1491	2017	17850	550.0	96.0	96.1	95.7	0.85	7.3	2.4	3.3	N/A	7.20	0.0171	1820	4012	**FD 250**	2500	22125	7.25	0.0172	1988	4383	•	•	•
355	476	**BX 355MCK 4**	1490	2275	20134	616.0	96.0	96.2	95.8	0.86	6.3	2.3	2.8	N/A	8.40	0.0199	2140	4718	**FD 250**	2500	22125	8.45	0.0201	2308	5088	•	•	•



Note: for more details on the available energy certifications look at the catalog's dedicated section.

4 P	1800 min^{-1} - S1	60 Hz



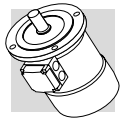
																		d.c. brake FD								Standard	CUS variant
P_n			n	M_n		In 460V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.12	0.16	**BX 63A 4**	1700	0.7	5.9	0.49	66.0	63.1	56.0	0.50	4.1	3.8	2.7	L	1.82	0.004321032	3.2	7.0	**FD 02**	1.75	15	8900	11000	2.4	0.0057	4.9	11	•	
0.18	0.25	**BX 63B 4**	1695	1.0	9.0	0.52	69.5	69.5	67.9	0.57	4.3	3.2	3.0	J	2.9	0.0069	5.1	11	**FD 02**	3.5	31	7000	9000	3.5	0.0083	6.8	12	•	
0.25	0.33	**BX 63C 4**	1710	1.4	12.4	0.71	73.4	73.6	67.7	0.58	4.8	3.8	3.1	K	4.3	0.0102	5.4	12	**FD 02**	3.5	31	5800	7700	4.9	0.0116	7.0	16	•	
0.25	0.33	**BX 71A 4**	1715	1.4	12.4	0.55	73.4	76.1	71.5	0.71	5.2	2.8	2.1	G	6.3	0.0150	5.5	13	**FD 03**	3.5	31	5700	8100	8.4	0.0190	8.4	19	•	
0.37	0.55	**BX 71B 4**	1735	2.0	17.7	0.9	78.2	79.2	75.1	0.66	6.9	4.1	3.7	M	10	0.0230	7.3	16	**FD 03**	5	44	4800	6800	11.8	0.0280	10	22	•	
0.55	0.75	**BX 80A 4**	1730	3.0	26.5	1.11	81.1	78.3	74	0.78	7.7	4.3	3.4	L	28	0.0664	12.2	26.9	**FD 04**	15	133	2000	3900	29.6	0.0702	16	36	•	
0.75	1	**BX 80B 4**	1740	4.1	36	1.43	85.5	85.8	84.2	0.78	7.3	2.4	2.2	L	35	0.0831	16	35	**FD 04**	15	133	1400	2800	37	0.0878	20	44	•	
0.75	1	**BX 90SR 4**	1755	4.1	36	1.48	85.5	86.4	83.9	0.73	8.0	3.7	2.5	L	27	0.0641	16	35	**FD 14**	15	133	1800	3700	29	0.0688	20	44	•	•
1.1	1.5	**BX 90S 4**	1740	6.0	53	2.15	86.5	85.9	83.0	0.74	8.2	4.1	2.8	K	27	0.0641	16	35	**FD 14**	15	133	2400	5500	29	0.0688	20	44	•	•
1.5	2	**BX 90LA 4**	1735	8.3	73	2.91	86.5	86.5	84.4	0.75	7.4	3.6	2.5	K	31	0.0736	17	37	**FD 05**	26	230	1700	3600	35	0.0831	23	51	•	•
2.2	3	**BX 100LA 4**	1760	11.9	106	4.4	89.5	88.6	86.2	0.71	9.9	4.8	3.6	N	73	0.1732	29	64	**FD 15**	40	354	470	1300	77	0.1827	36	79	•	•
3	4	**BX 100LB 4**	1750	16.4	145	5.9	89.5	88.9	86.7	0.71	9.1	4.4	3.3	M	73	0.1732	29	64	**FD 15**	40	354	640	1700	77	0.1827	36	79	•	•
3.7	5	**BX 112M 4**	1760	20.0	178	6.7	89.5	89.5	89.1	0.77	10.4	4.7	3.4	M	130	0.3085	38	84	**FD 06S**	60	531	—	790	139	0.3299	48	106	•	•
5.5	7.5	**BX 132SB 4**	1770	30.0	263	9.9	91.7	92.0	90.2	0.76	10.7	5.1	4.6	N	410	0.9729	77	170	**FD 56**	75	664	—	130	420	0.9967	90	198	•	•
7.5	10	**BX 132MA 4**	1770	41.0	358	13.4	91.7	91.3	89.7	0.76	11.0	4.9	4.4	N	410	0.9729	77	170	**FD 06**	100	885	—	230	420	0.9967	90	198	•	•
9.2	12.5	**BX 160MA 4**	1770	50.0	439	15.6	92.4	92.5	91.6	0.80	9.1	4.1	2.6	L	650	1.5425	95	209	**FD 08**	170	1505	—	280	725	1.7205	125	276	•	•
11	15	**BX 160MB 4**	1770	59.0	525	18.2	92.4	92.9	92.0	0.82	9.3	4.0	2.4	L	780	1.8509	110	243	**FD 08**	170	1505	—	230	855	2.0289	140	309	•	•
15	20	**BX 160L 4**	1770	81.0	716	24.5	93.0	93.5	92.5	0.81	10.9	4.8	2.8	M	890	2.1120	121	267	**FD 08**	200	1770	—	240	965	2.2900	151	333	•	•
18.5	25	**BX 180M 4**	1780	99.0	878	28.6	93.6	94.5	93.2	0.85	13.0	2.9	2.7	N	1560	3.7019	155	342	**FD 09**	300	2655	—	130	1760	4.1765	195	430	•	•
22	30	**BX 180L 4**	1775	118.0	1045	33.1	93.6	94.2	93.1	0.87	11.5	2.8	2.4	M	1660	3.9392	163	359	**FD 09**	300	2655	—	130	1860	4.4138	203	448	•	•

Note: for more details on the available energy certifications look at the catalog's dedicated section.
Sizes 100LA and 100LB are only available with UL for USA and not for Canada

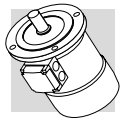
4 P	1800 min^{-1} - S1	60 Hz

P_n kW	P_n hp		n min^{-1}	M_n Nm	M_n lb·in	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	d.c. brake FD Mod	M_b Nm	M_b lb·in	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	CUS variant CE + UL	NBR variant CE + INMETRO
30	40	**BX 200LAK 4**	1786	160	1416	47.9	94.7	94.8	94.1	0.83	9.4	3.3	3.7	N/A	0.37	0.0009	319	703	**FD 8**	400	3540	0.39	0.0009	337	743	•	•
37	50	**BX 225SAK 4**	1784	198	1752	57.3	95.3	95.5	94.9	0.85	8.8	2.9	3.4	N/A	0.54	0.0013	398	877	**FD 9**	600	5310	0.57	0.0014	426	939	•	•
45	60	**BX 225SBK 4**	1785	240	2124	70.5	95.3	95.4	94.8	0.84	8.9	3.0	3.6	N/A	0.54	0.0013	398	877	**FD 9**	600	5310	0.57	0.0014	426	939	•	•
55	74	**BX 250MAK 4**	1787	293	2593	85.8	95.7	95.8	95.2	0.84	9.1	3.3	3.7	N/A	0.93	0.0022	476	1049	**FD10**	800	7080	1.01	0.0024	521	1149	•	•
75	101	**BX 280SAK 4**	1788	401	3549	117.0	95.9	95.7	94.7	0.84	8.4	2.7	3.1	N/A	1.50	0.0036	665	1466	**FD 100**	1000	8850	1.54	0.0036	771	1700	•	•
90	121	**BX 280SBK 4**	1788	481	4257	140.0	96.1	95.9	95.0	0.84	9.0	3.1	3.3	N/A	1.85	0.0044	725	1598	**FD 100**	1000	8850	1.89	0.0045	831	1832	•	•
110	148	**BX 315SAK 4**	1792	586	5186	172.0	96.1	96.0	95.3	0.84	8.8	2.6	3.4	N/A	2.90	0.0069	1000	2205	**FD 100**	1000	8850	2.94	0.0070	1106	2438	•	•
132	177	**BX 315SBK 4**	1791	704	6230	206.0	96.4	96.3	95.6	0.84	9.0	2.8	3.6	N/A	3.20	0.0076	1065	2348	**FD 160**	1600	14160	3.25	0.0077	1233	2718	•	•
160	215	**BX 315SCK 4**	1791	853	7549	241.0	96.4	96.4	95.9	0.86	9.0	2.9	3.3	N/A	3.90	0.0093	1220	2690	**FD 160**	1600	14160	3.95	0.0094	1388	3060	•	•
200	268	**BX 355SAK 4**	1792	1065	9425	301.0	96.4	96.2	95.4	0.87	8.3	2.2	3.0	N/A	5.90	0.0140	1610	3549	**FD 250**	2500	22125	5.95	0.0141	1778	3920	•	•
250	335	**BX 355MAK 4**	1792	1332	11788	381.0	96.7	96.6	96.0	0.86	8.8	2.7	3.2	N/A	6.90	0.0164	1780	3924	**FD 250**	2500	22125	6.95	0.0165	1948	4295	•	•
315	422	**BX 355MBK 4**	1791	1679	14859	479.0	96.7	96.6	96.1	0.85	8.5	3.1	3.2	N/A	7.20	0.0171	1820	4012	**FD 250**	2500	22125	7.25	0.0172	1988	4383	•	•
355	476	**BX 355MCK 4**	1792	1893	16753	541.0	96.7	96.5	96.9	0.86	7.2	2.4	3.1	N/A	8.40	0.0199	2140	4718	**FD 250**	2500	22125	8.45	0.0201	2308	5088	•	•

Note: for more details on the available energy certifications look at the catalog's dedicated section.



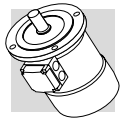
4 P	1500 min^{-1} - S1	50 Hz



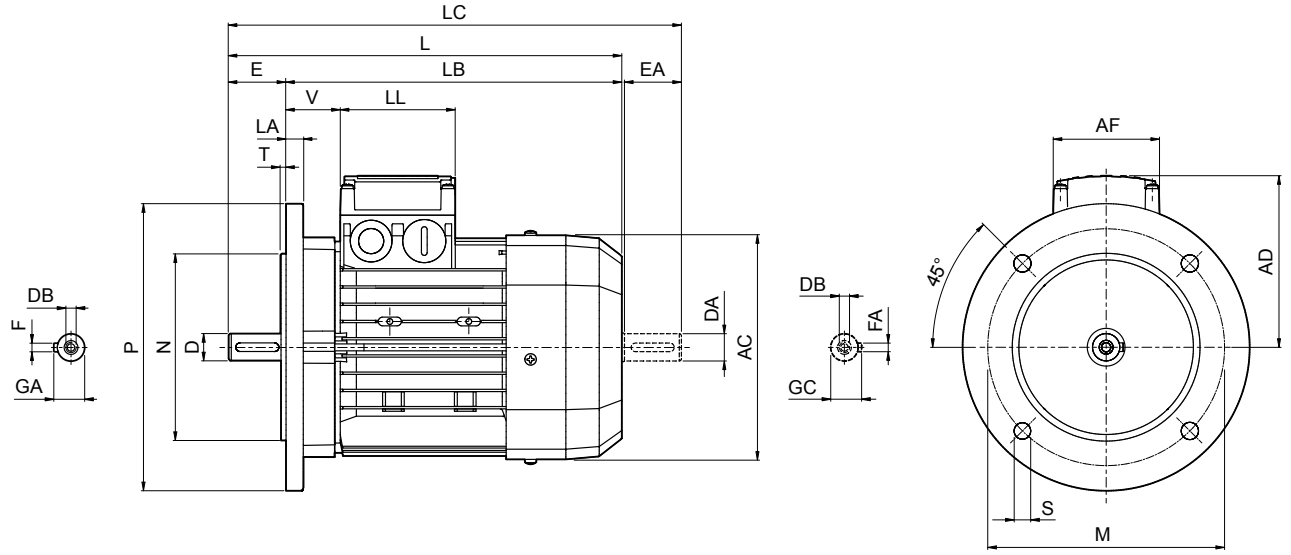
																			d.c. brake FD											
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + BIS	CE + CEL
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.12	0.16	**MX 05A 4**	1365	0.8	7.4	0.45	64.8	60	52.9	0.64	2.9	2.4	1.7	G	1.8	0.0043	3.2	7	**FD 02**	1.75	15	8900	11000	2.4	0.0057	4.9	11	•	•	
0.18	0.25	**MX 05B 4**	1370	1.3	11.1	0.57	69.9	69.5	65.9	0.63	3.6	2.6	1.8	G	2.9	0.0069	5.1	11	**FD 02**	3.5	31	7000	9000	3.5	0.0083	6.8	15	•	•	
0.25	0.33	**MX 1SA 4**	1400	1.7	15.5	0.63	73.5	76.0	72.6	0.77	4.3	2.3	2.3	G	6.3	0.0150	5.4	12	**FD 03**	3.5	31	5400	7800	8.4	0.0190	8.1	18	•	•	
0.37	0.5	**MX 1SB 4**	1420	2.5	22.0	1.0	77.3	78.1	73.8	0.71	5.9	3.4	3.1	J	10	0.0230	6.9	15	**FD 03**	5	44	7000	10000	11.8	0.0280	10	22	•	•	
0.55	0.75	**MX 2SA 4**	1425	3.7	33	1.2	80.8	78.6	75.2	0.81	6.8	3.5	2.7	J	28	0.0664	12.2	27	**FD 04**	15	133	2400	4700	29.6	0.0702	16	36	•	•	
0.75	1	**MX 2SB 4**	1425	5.0	45	1.61	82.5	83.9	83.2	0.81	6.5	2.0	1.8	J	35	0.0831	16	35	**FD 04**	15	132	1700	3300	37	0.0878	20	44	•	•	
1.1	1.5	**MX 3SA 4**	1445	7.3	64	2.46	84.1	85.5	83.5	0.75	6.7	3.0	2.0	J	35	0.0831	17	37	**FD 15**	26	132	3700	6200	39	0.0925	24	53	•	•	
1.5	2	**MX 3SB 4**	1445	9.9	88	3.3	85.3	86.8	85.4	0.75	6.7	3.1	2.0	J	43	0.1020	20	44	**FD 15**	26	230	2400	4300	47	0.1115	27	60	•	•	•
2.2	3	**MX 3LA 4**	1445	14.5	129	5.1	86.7	86.2	84.0	0.72	7.2	3.6	2.4	K	58	0.1376	24	53	**FD 15**	40	354	1500	2800	62	0.1471	31	68	•	•	•
3	4	**MX 3LB 4**	1445	19.8	175	6.7	87.7	87.7	86.0	0.74	7.6	3.9	2.6	K	73	0.1732	29	64	**FD 15**	40	354	1500	2700	77	0.1827	36	79	•	•	•
3.7	5	**MX 4SA 4**	1450	24.4	216	7.5	88.4	90.0	88.8	0.80	8.4	3.9	2.5	L	225	0.5339	45	99	**FD 55**	74	354	—	1100	235	0.5577	57	126		•	
4	5.4	**MX 4SA 4**	1460	26.0	232	7.8	88.6	89.9	88.7	0.82	8.1	3.7	2.5	J	225	0.5339	45	99	**FD 56**	75	663	—	1100	235	0.5577	58	128	•		•
5.5	7.5	**MX 4SB 4**	1460	36.0	318	10.6	89.6	89.9	88.8	0.83	8.2	3.6	2.3	J	310	0.7356	57	126	**FD 56**	75	663	—	700	320	0.7594	70	154	•	•	•
7.5	10	**MX 4LA 4**	1460	49.0	434	15.0	90.4	90.9	90.2	0.80	8.4	3.8	2.5	K	360	0.8543	67	148	**FD 06**	100	885	—	700	370	0.8780	80	176	•	•	•
9.2	12.5	**MX 5SA 4**	1465	60.0	531	17.8	91.0	92.1	91.7	0.82	7.9	3.6	2.1	J	650	1.5425	95	209	**FD 08**	170	1505	—	620	725	1.7205	125	276	•		•
11	15	**MX 5SB 4**	1465	72.0	635	20.5	91.4	92.9	92.5	0.84	7.8	3.4	1.9	J	780	1.8509	110	243	**FD 08**	170	1505	—	470	855	2.0289	140	309	•		•
15	20	**MX 5LA 4**	1465	98.0	865	28.1	92.1	93.2	92.6	0.82	9.0	4.1	2.3	K	890	2.1120	121	267	**FD 08**	200	1770	—	510	965	2.2900	151	333	•		•

4 P	1800 min^{-1} - S1	60 Hz

																			d.c. brake FD									Standard	CUS variant
P_n			n	M_n		In 460V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.12	0.16	**MX 05A 4**	1700	0.7	5.9	0.49	66.0	63.1	56.0	0.50	4.1	3.8	2.7	L	1.82	0.0043	2.9	6.38	**FD 02**	1.75	15	8900	11000	2.4	0.005695135	4.6	10	•	
0.18	0.25	**MX 05B 4**	1695	1.0	9.0	0.52	69.5	69.5	67.9	0.57	4.3	3.2	3.0	J	2.9	0.0069	4.8	11	**FD 02**	3.5	31	7000	9000	3.5	0.0083	7	12	•	
0.25	0.33	**MX 1SA 4**	1715	1.4	12.4	0.55	73.4	76.1	71.5	0.71	5.2	2.6	2.8	G	6.3	0.0150	5.4	12	**FD 03**	3.5	31	5700	8100	8.4	0.0190	8.1	18	•	
0.37	0.5	**MX 1SB 4**	1735	2.0	17.7	0.9	78.2	79.2	75.1	0.66	6.9	4.1	3.7	M	10	0.0230	6.9	15	**FD 03**	5	44	4800	6800	11.8	0.0280	10	22	•	
0.55	0.75	**MX 2SA 4**	1730	3.0	26.5	1.11	81.1	78.3	74	0.78	7.7	4.3	3.4	L	28	0.0664	12.2	26.9	**FD 04**	15	133	2000	3900	29.6	0.0702	16.1	36	•	
0.75	1	**MX 2SB 4**	1740	4.1	36	1.43	85.5	85.8	84.2	0.78	7.3	2.4	2.2	L	35	0.0831	16	35	**FD 04**	15	133	1400	2800	37	0.0878	20	44	•	
0.75	1	**MX 2SB 4**	1755	4.1	36	1.48	85.5	86.4	83.9	0.73	8.0	3.7	2.5	L	27	0.0641	16	35	**FD 14**	15	132	1800	3700	29	0.0688	20	45	•	•
1.1	1.5	**MX 3SA 4**	1755	6.0	53	2.19	86.5	86.0	83.0	0.73	7.9	3.3	2.5	L	35	0.0831	17	37	**FD 15**	26	133	800	2200	39	0.0925	24	53	•	•
1.5	2	**MX 3SB 4**	1755	8.2	72	2.96	86.5	87.2	85.0	0.72	8.5	3.7	2.9	L	43	0.1020	20	44	**FD 15**	26	230	750	2000	47	0.1115	27	60	•	•
2.2	3	**MX 3LA 4**	1760	11.9	106	4.4	89.5	88.6	86.2	0.71	9.9	4.8	3.6	N	73	0.1732	29	64	**FD 15**	40	354	470	1300	77	0.1827	36	79	•	•
3	4	**MX 3LB 4**	1750	16.4	145	5.9	89.5	88.9	86.7	0.71	9.1	4.4	3.3	M	73	0.1732	29	64	**FD 15**	40	354	640	1700	77	0.1827	36	79	•	•
3.7	5	**MX 4SA 4**	1770	20.0	177	6.6	89.5	89.8	87.7	0.78	9.9	4.7	3.4	M	225	0.5339	45	99	**FD 56**	75	664	—	465	235	0.5577	58	128	•	•
5.5	7.5	**MX 4SB 4**	1770	30.0	263	9.9	91.7	92.0	90.2	0.76	10.7	5.1	4.6	N	410	0.9729	77	170	**FD 56**	75	664	—	130	420	0.9967	90	198	•	•
7.5	10	**MX 4LA 4**	1770	41.0	358	13.4	91.7	91.3	89.7	0.76	11.0	4.9	4.4	N	410	0.9729	77	170	**FD 06**	100	885	—	230	420	0.9967	90	198	•	•
9.2	12.5	**MX 5SA 4**	1770	50.0	439	15.6	92.4	92.5	91.6	0.80	9.1	4.1	2.6	L	650	1.5425	95	209	**FD 08**	170	1505	—	280	725	1.7205	125	276	•	•
11	15	**MX 5SB 4**	1770	59.0	525	18.2	92.4	92.9	92.0	0.82	9.3	4.0	2.4	L	780	1.8509	110	243	**FD 08**	170	1505	—	230	855	2.0289	140	309	•	•
15	20	**MX 5LA 4**	1770	81.0	716	24.5	93.0	93.5	92.5	0.81	10.9	4.8	2.8	M	890	2.1120	121	267	**FD 08**	200	1770	—	240	965	2.2900	151	333	•	•



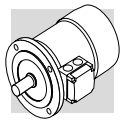
BX - IM B5



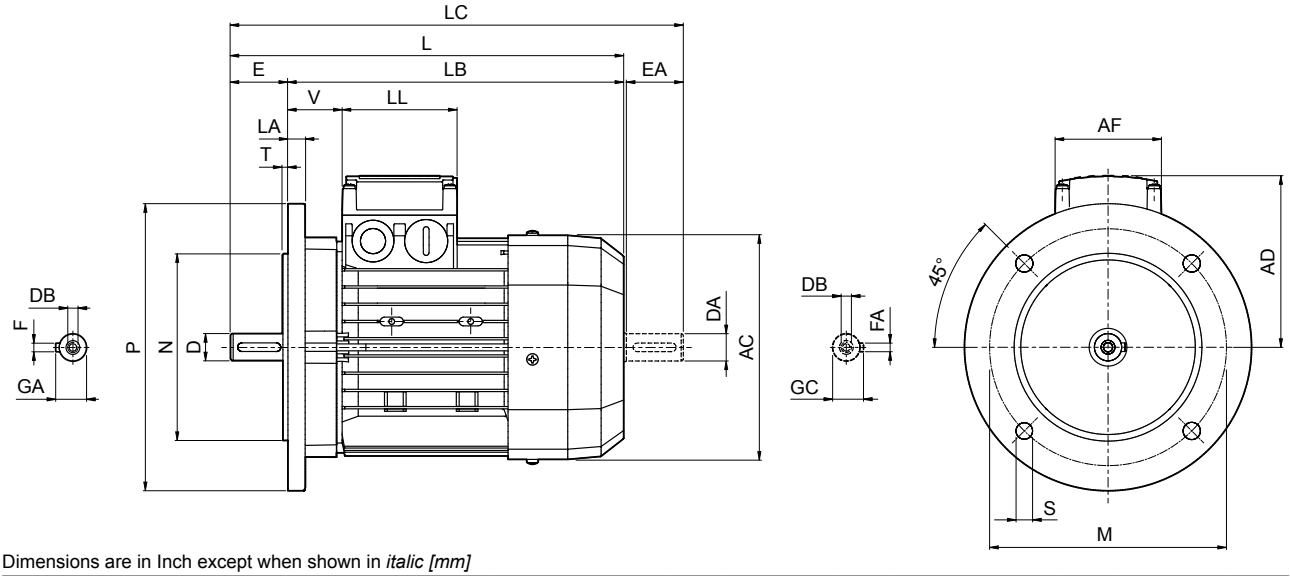
[mm]

	Shaft					Flange						Motor							
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V
BX 63A	11 9(1)	23 20(1)	M4 M3(1)	12.5 10.2(1)	4 3(1)	115	95	140	9.5	3	10	121	206	183	228	95	74	80	26
BX 63B													226	203	248				
BX 63C																			
BX 71A	14 11(1)	30 23(1)	M5 M4(1)	16 12.5(1)	5 4(1)	130	110	160		3.5		138	249	219	274	108			37
BX 71B																			
BX 80A	19 14(1)	40 30(1)	M6 M5(1)	21.5 16(1)	6 5(1)	165	130	200	11.5		11.5	156	274	234	306	119			38
BX 80 B													320	280	351				
BX 90 S	24 19(1)	50 40(1)	M8 M6(1)	27 21.5 (1)	8 6(1)							176	326	276	368	133	98	98	44
BX 90 LA																			
BX 100 LA	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)	215	180	250	14	4	14	195	410	350	462	142			50
BX 100 LB																			
BX 112 M											15	219	430	370	482	157			52
BX 132 SB	38 28(1)	80 60(1)	M12 M10(1)	41 31(1)	10 8(1)	265	230	300			20	258	493	413	556	193	118	118	58
BX 132 MA													528	448	591				
BX 160 MA	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15	310	596	486	680	245	187	187	51
BX 160 MB													640	530	724				
BX 160 L																			
BX 180 M	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	708	598	823	261			52
BX 180 L																			
BX 200LAK	55 45(1)		M20 M20(1)	59 48.5(1)	16 14(1)	350	300	400	19		20	423	821	711	934	328	300	311	55
BX 225SAK	60 55(1)	140 110(1)		64 59(1)	18 16(1)	400	350	450	19			465	879	739	1001	348			48
BX 225SBK																			
BX 250MAK	65 55(1)			69 59(1)		500	450	550	19		24	514	884	744	1010	376			
BX 280SAK	75 65(1)			79.5 69(1)	20 18(1)				18		23	567	1086	948	1238	482	434	306	43
BX 280SBK																			
BX 315SAK	80 75(1)	170 140(1)		85 79.5(1)	22 20(1)	600	550	660	23	6	25	645	1204	1034	1352	537	473	347	42
BX 315SBK																			
BX 315SCK													1315	1145	1453				
BX 355SAK	100 75(1)	210 170(1)	M24 M20(1)	106 79.5(1)	28 20(1)	740	680	800				740	1479	1269	1659	603	694	413	50
BX 355MAK																			
BX 355MBK																			
BX 355MCK													1584	1374	1764				

N.B.: 1) These values refer to the rear shaft end (PS).
CEL certification on BX is available from size 100LA to 355MCK



BX - IM B5

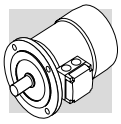


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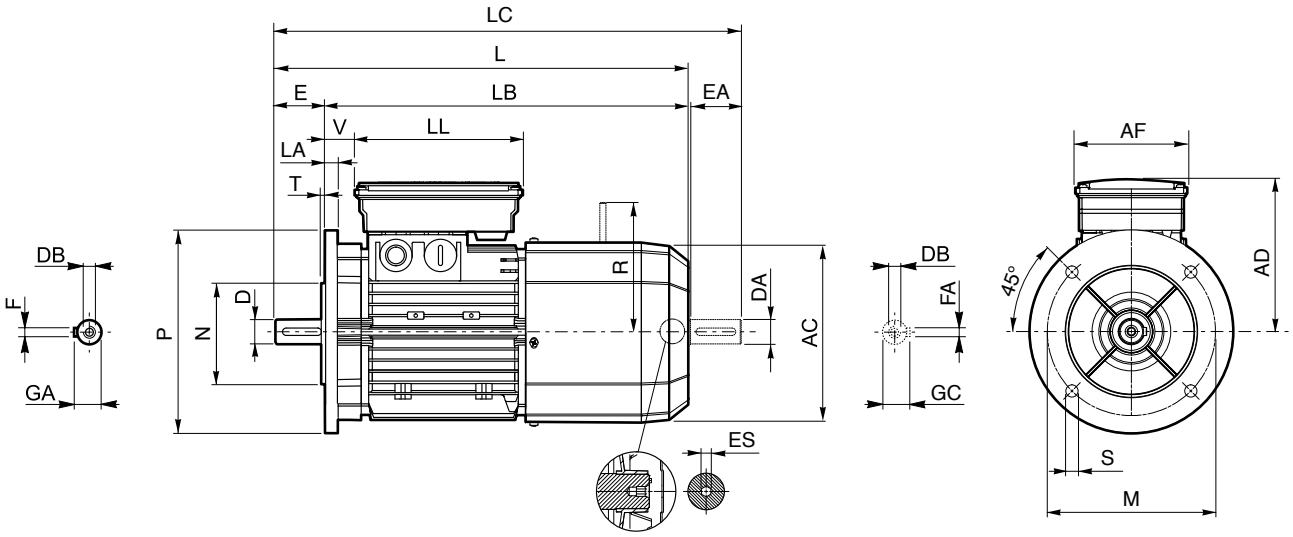
Dimensions are in Inch except when shown in *italic [mm]*

	Shaft					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BX 63A	0.433 0.354(1)	0.906 0.787(1)	*M4 M3(1)*	0.492 0.402(1)	0.157 0.118(1)	4.528	3.740	5.512	0.374	0.118	0.394	4.764	8.110	7.205	8.976	3.740	2.913	3.150	1.024
BX 63B													8.898	7.992	9.764				
BX 63C																			
BX 71A	0.551 0.433(1)	1.181 0.906(1)	*M5 M4(1)*	0.630 0.492(1)	0.197 0.157(1)	5.118	4.331	6.299		0.138		5.433	9.803	8.622	10.787	4.252			1.457
BX 71B																			
BX 80A	0.748 0.551(1)	1.575 1.181(1)	*M6 M5(1)*	0.846 0.630(1)	0.236 0.197(1)	6.496	5.118	7.874	0.453		0.453	6.142	10.787	9.213	12.047	4.685			1.496
BX 80B													12.598	11.024	13.819				
BX 90 S	0.945 0.748(1)	1.969 1.575(1)	*M8 M6(1)*	1.063 0.846(1)	0.315 0.236(1)							6.929	12.835	10.866	14.488	5.236			1.732
BX 90 LA																			
BX 100 LA	1.102 0.945(1)	2.362 1.969(1)	*M10 M8(1)*	1.220 1.063(1)	0.315 0.315(1)	8.465	7.087	9.843			0.551	7.677	16.142	13.780	18.189	5.591	3.858	3.858	1.969
BX 100 LB																			
BX 112 M									0.551	0.157	0.591	8.622	16.929	14.567	18.976	6.181			2.047
BX 132 SB	1.496 1.102(1)	3.150 2.362(1)	*M12 M10(1)*	1.614 1.220(1)	0.394 0.315(1)	10.433	9.055	11.811			0.787	10.157	19.409	16.260	21.890	7.598	4.646	4.646	2.283
BX 132 MA													20.787	17.638	23.268				
BX 160 MA	1.654 1.496(1)	4.331 3.150(1)	*M16 M12(1)*	1.772 1.614(1)	0.472 0.394(1)	11.811	9.843	13.780	0.728		0.591	12.205	23.465	19.134	26.772	9.646	7.362	7.362	2.008
BX 160 MB													25.197	20.866	28.504				
BX 160 L																			
BX 180 M	1.890 1.654(1)	4.331 4.331(1)	*M16 M16(1)*	2.028 1.772(1)	0.551 0.472(1)						0.709	13.701	27.874	23.543	32.402	10.276			2.047
BX 180 L																			
BX 200LAK	2.165 1.772(1)		*M20 M16(1)*	2.323 1.909(1)	0.630 0.551(1)	13.780	11.811	15.748		0.197	0.787	16.654	32.323	27.992	36.772	12.913			2.165
BX 225SAK	2.362 2.165(1)	5.512 4.331(1)		2.520 2.323(1)	0.709 0.630(1)	15.748	13.780	17.717	0.748			18.307	34.606	29.094	39.409	13.701	11.811	12.244	1.890
BX 225SBK																			
BX 250MAK	2.559 2.165(1)			2.717 2.323(1)							0.945	20.236	34.803	29.291	39.764	14.803			
BX 280SAK	2.953 2.559(1)		*M20 M20(1)*	3.130 2.717(1)	0.787 0.709(1)	19.685	17.717	21.654											
BX 280SBK		5.512 5.512(1)							0.709		0.906	22.323	42.756	37.323	48.740	18.976	17.087	12.047	1.693
BX 315SAK	3.150 2.953(1)	6.693 5.512(1)		3.346 3.130(1)	0.866 0.787(1)	23.622	21.654	25.984				25.394	47.402	40.709	53.228	21.142	18.622	13.661	1.654
BX 315SBK																			
BX 315SCK													51.772	45.079	57.205				
BX 355SAK	3.937 3.543(1)	8.268 6.693(1)	*M24 M24(1)*	4.173 3.740(1)	1.102 0.984(1)	29.134	26.772	31.496	0.906	0.236	0.984	29.134	58.228	49.961	65.315	23.740	27.323	16.260	1.969
BX 355MAK																			
BX 355MBK																			
BX 355MCK													62.362	54.094	69.449				

N.B.: 1) These values refer to the rear shaft end (PS).
CEL certification on BX is available from size 100LA to 355MCK



BX - IM B5 - FD



BX-IE3

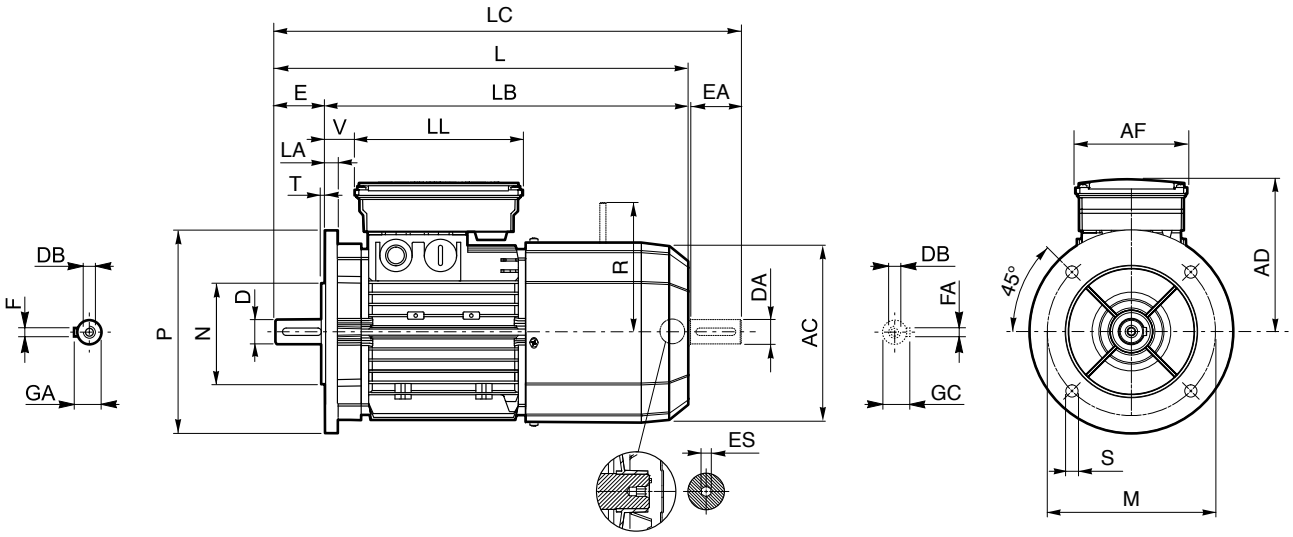
[mm]

	Shaft					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R FD	ES (2)
BX 63A	11 9(1)	23 20(1)	M4 M3(1)	12.5 10.2(1)	4 3(1)	115	95	140	9.5	3	10	121	272	249	294	122	98	133	14	96	5
BX 63B																					
BX 63C																					
BX 71A	14 11(1)	30 23(1)	M5 M4(1)	16 12.5(1)	5 4(1)	130	110	160		3.5		138	313	283	338	135			24	103	
BX 71B																					
BX 80A	19 14(1)	40 30(1)	M6 M5(1)	21.5 16(1)	6 5(1)	165	130	200	11.5		11.5	156	346	306	378	143			25	129	
BX 80 B													392	352	423						
BX 90 S	24 19(1)	50 40(1)	M8 M6(1)	27 21.5 (1)	8 6(1)							176	410	360	452	146			32		6
BX 90 LA																				160	
BX 100 LA	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)	215	180	250			14	195	502	442	554	155	110	165	37		
BX 100 LB									14	4											
BX 112 M											15	219	527	467	579	170			39	199	
BX 132 SB	38 28(1)	80 60(1)	M12 M10(1)	41 31(1)	10 8(1)	265	230	300			16	258	603	523	667	210	140	188	46	204	
BX 132 MA													627	547	690						
BX 160 MA	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15	310	736	626	820	245	187	187	51	266	—
BX 160 MB													780	670	864						
BX 160 L																					
BX 180 M	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	866	756	981	261			52	305	
BX 180 L																					
BX 200LAK	55 45(1)		M20 M16(1)	59 48.5(1)	16 14(1)	350	300	400	19	5	20	417	967	857	1082	328	300	311	55	275	
BX 225SAK	60 55(1)	140 110(1)	M20 M20(1)	64 59(1)	18 16(1)	400	350	450				460	1065	925	1180	348			48	308	
BX 225SBK																					
BX 250MAK	65 55(1)			69 59(1)		500	450	550			24	510	1070	930	1240	376				313	
BX 280SAK	75 65(1)	140 140(1)		79.5 69(1)	20 18(1)				18		23	564	1284	1144	1379	482	434	306	43		
BX 280SBK																					
BX 315SAK	80 75(1)	170 140(1)		85 79.5(1)	22 20(1)	600	550	660	23	6	25	639	1493	1323	1643	537	473	347	42	500	
BX 315SBK													1530	1360	1680						
BX 315SCK													1604	1434	1791						
BX 355SAK	100 90(1)	210 170(1)	M24 M24(1)	106 95(1)	28 25(1)	740	680	800				725	1722	1512	1902	603	694	413	50	—	
BX 355MAK																					
BX 355MBK																					
BX 355MCK													1827	1617	2082						

N.B.: 1) These values refer to the rear shaft end (PS). 2) “ES” hexagon is not present with PS option

CEL certification on BX is available from size 100LA to 355MCK

BX - IM B5 - FD



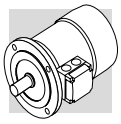
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Dimensions are in Inch except when shown in *italic [mm]*

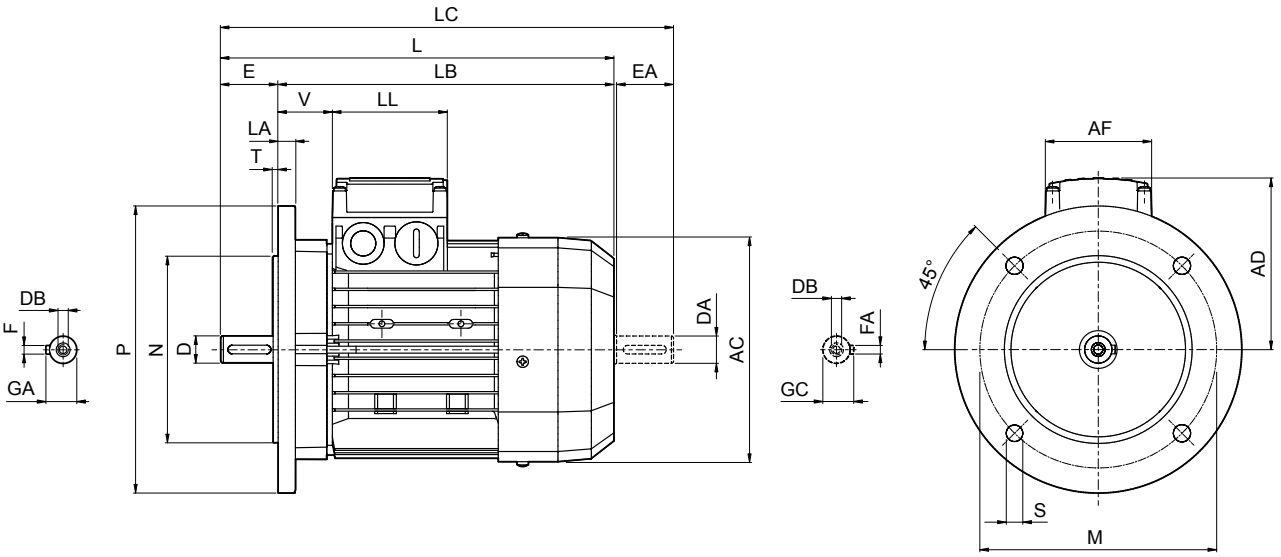
	Shaft					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R FD	ES (2)
BX 63A	0.433 0.354(1)	0.906 0.787(1)	*M4* *M3*(1)	0.492 0.402(1)	0.157 0.118(1)	4.528	3.740	5.512	0.374	0.118	0.394	4.764	10.709	9.803	11.575	4.803	3.858	5.236	0.551	3.78	0.197
BX 63B																					
BX 63C																					
BX 71A	0.551 0.433(1)	1.181 0.906(1)	*M5* *M4*(1)	0.630 0.492(1)	0.197 0.157(1)	5.118	4.331	6.299		0.138		5.433	12.323	11.142	13.307	5.315			0.945	4.055	
BX 71B																					
BX 80A	0.748 0.551(1)	1.575 1.181(1)	*M6* *M5*(1)	0.846 0.630(1)	0.236 0.197(1)	6.496	5.118	7.874	0.453		0.453	6.142	13.622 15.433	12.047 13.858	14.882 16.654	5.630			0.984	5.079	
BX 80B																					
BX 90 S	0.945 0.748(1)	1.969 1.575(1)	*M8* *M6*(1)	1.063 0.846(1)	0.315 0.236(1)							6.929	16.142	14.173	17.795	5.748			1.260	6.299	
BX 90 LA																					
BX 100 LA	1.102 0.945(1)	2.362 1.969(1)	*M10* *M8*(1)	1.220 1.063(1)	0.315 0.315(1)	8.465	7.087	9.843	0.551	0.157	0.551	7.677	19.764	17.402	21.811	6.102	4.331	6.496	1.457		
BX 100 LB																					
BX 112 M											0.591	8.622	20.748	18.386	22.795	6.693			1.535	7.835	
BX 132 SB	1.496 1.102(1)	3.150 2.362(1)	*M12* *M10*(1)	1.614 1.220(1)	0.394 0.315(1)	10.433	9.055	11.811			0.787	10.157	23.740 24.685	20.591 21.535	26.260 27.165	8.268	5.512	7.402	1.811	8.031	
BX 132 MA																					
BX 160 MA	1.654 1.496(1)	4.331 3.150(1)	*M16* *M12*(1)	1.772 1.614(1)	0.472 0.394(1)	11.811	9.843	13.780	0.728	0.197	0.591	12.205	28.976 30.709	24.646 26.378	32.283 34.016	9.646	7.362	7.362	2.008	10.472	
BX 160 MB																					
BX 160 L																					
BX 180 M	1.890 1.654(1)	4.331 4.331(1)	*M16* *M16*(1)	2.028 1.772(1)	0.551 0.472(1)						0.709	13.701	34.094	29.764	38.622	10.276			2.047	12.008	
BX 180 L																					
BX 200LAK	2.165 1.772(1)			2.323 1.909(1)	0.630 0.551(1)	13.780	11.811	15.748	0.748		0.787	16.417	38.071	33.740	42.598	12.913	11.811	12.244	2.165	10.827	0.236 -
BX 225SAK	2.362 2.165(1)	5.512 4.331(1)	*M20* *M16*(1)		0.709 0.630(1)	15.748	13.780	17.717				18.110	41.929	36.417	46.457	13.701			1.890	12.126	
BX 225SBK																					
BX 250MAK	2.559 2.165(1)			2.717 2.323(1)		19.685	17.717	21.654			0.945	20.079	42.126	36.614	48.819	14.803				12.323	
BX 280SAK		5.512 5.512(1)		3.130 2.717(1)	0.787 0.709(1)				0.709		0.906	22.205	50.551	45.039	54.291	18.976	17.087	12.047	1.693		
BX 280SBK																					
BX 315SAK	3.150 2.953(1)	6.693 5.512(1)		3.346 3.130(1)	0.866 0.787(1)	23.622	21.654	25.984	0.906	0.236	0.984	25.157	58.780 60.236 63.150	52.087 53.543 56.457	64.685 66.142 70.512	21.142	18.622	13.661	1.654	19.685	
BX 315SBK																					
BX 315SCK																					
BX 355SAK	3.937 3.543(1)	8.268 6.693(1)	*M24* *M24*(1)	4.173 3.740(1)	1.102 0.984(1)	29.134	26.772	31.496				28.543	67.795 71.929	59.528 63.661	74.882 81.969	23.740	27.323	16.260	1.969	-	
BX 355MAK																					
BX 355MBK																					
BX 355MCK																					

N.B.: 1) These values refer to the rear shaft end (PS). 2) “ES” hexagon is not present with PS option

CEL certification on BX is available from size 100LA to 355MCK



BX - IM B5 - CUS/NBR



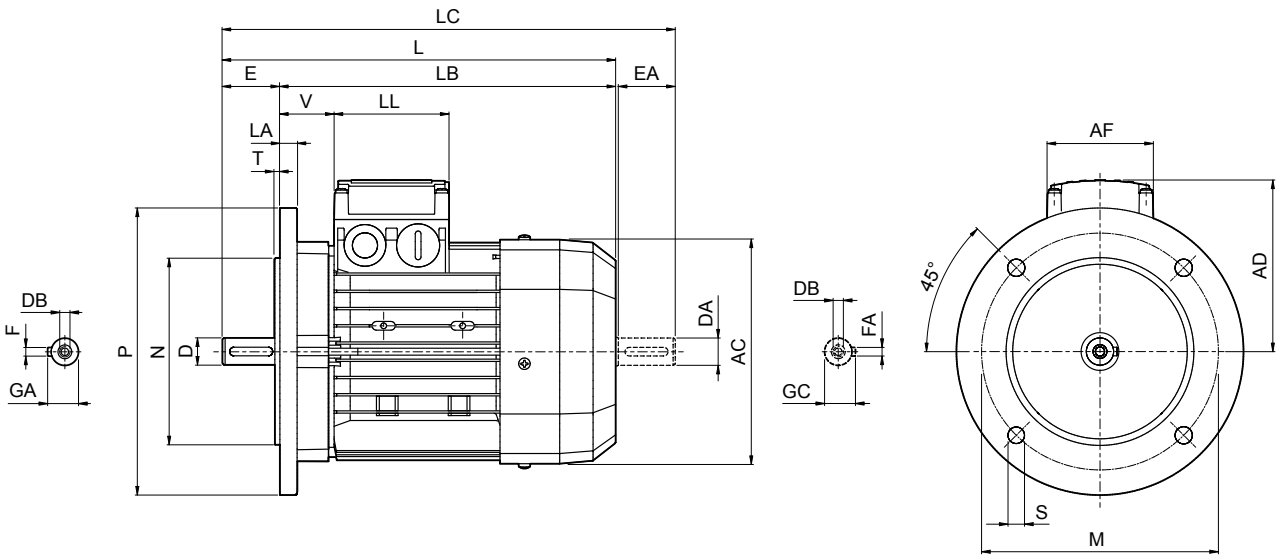
BX-IE3

[mm]

	Shaft					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BX 90 SR	19 19(1)	40 40(1)	M6 M6(1)	21.5 21.5(1)	6 6(1)	165	130	200	11.5	3.5	11.5	176	316	276	358	133	98	98	44
BX 90 S	24 19(1)	50 40(1)	M8 M6(1)	27 21.5(1)	8 6(1)								326		368				
BX 90 LA																			
BX 100 LA	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)	215	180	250	14	4	14	195	410	350	462	142			50
BX 100 LB																			
BX 112 M											15	219	430	370	482	157			52
BX 132 SB	38 28(1)	80 60(1)	M12 M10(1)	41 31(1)	10 8(1)	265	230	300			20	258	552	472	615	193	118	118	58
BX 132 MA																			
BX 160 MA	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15	310	596	486	680	245	187	187	51
BX 160 MB													640	530	724				
BX 160 L																			
BX 180 M	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	708	598	823	261			52
BX 180 L																			
BX 200LAK	55 45(1)	110 110(1)	M20 M20(1)	59 48.5(1)	16 14(1)	350	300	400	19	5	20	423	821	711	934	328	300	311	55
BX 225SAK	60 55(1)	140 110(1)	M20 M20(1)	64 59(1)	18 16(1)	400	350	450	19	5	20	465	879	739	1001	348	300	311	48
BX 225SBK																			
BX 250MAK	65 55(1)	140 110(1)	M20 M20(1)	69 59(1)	18 16(1)	500	450	550	19	5	24	514	884	744	1010	376	300	311	
BX 280SAK	75 65(1)	140 140(1)	M20 M20(1)	79.5 69(1)	20 18(1)	500	450	550	18	5	23	567	1088	948	1238	482	434	306	43
BX 280SBK																			
BX 315SAK	80 75(1)	170 140(1)	M20 M20(1)	85 79.5(1)	22 20(1)	600	550	660	23	6	25	645	1204	1034	1352	537	473	347	42
BX 315SBK																			
BX 315SCK													1315	1145	1453				
BX 355SAK	100 75(1)	210 170(1)	M24 M20(1)	106 79.5(1)	28 20(1)	740	680	800	23	6	25	740	1479	1269	1659	603	694	413	50
BX 355MAK																			
BX 355MBK																			
BX 355MCK													1584	1374	1764				

N.B.: 1) These values refer to the rear shaft end (PS).

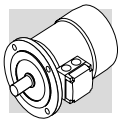
BX - IM B5 - CUS/NBR



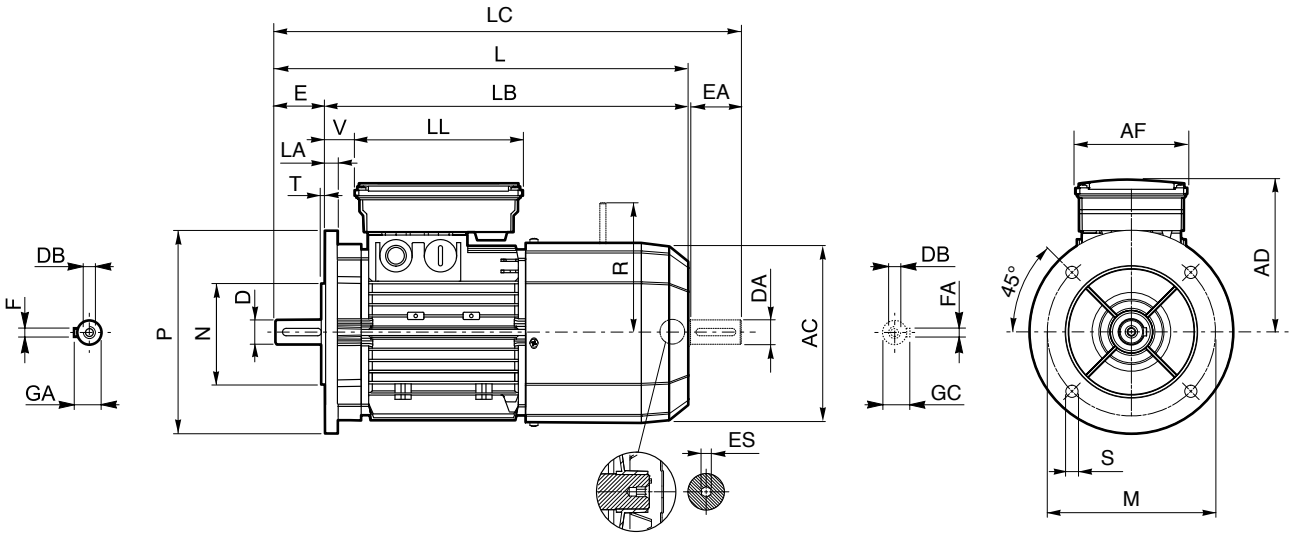
Dimensions are in Inch except when shown in *italic [mm]*

	Shaft					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BX 90 SR	0.748 0.748(1)	1.575 1.575(1)	*M6* *M6(1)*	0.846 0.846(1)	0.236 0.236(1)	6.496	5.118	7.874	0.453	0.138	0.453	6.929	12.441	10.866	14.094	5.236	3.858	3.858	1.732
BX 90 S	0.945 0.748(1)	1.969 1.575(1)	*M8* *M6(1)*	1.063 0.846(1)	0.315 0.236(1)								12.835		14.488				
BX 90 LA																			
BX 100 LA	1.102 0.945(1)	2.362 1.969(1)	*M10* *M8(1)*	1.220 1.063(1)	0.315 0.315(1)	8.465	7.087	9.843	0.551	0.157	0.551	7.677	16.142	13.780	18.189	5.591			1.969
BX 100 LB																			
BX 112 M											0.591	8.622	16.929	14.567	18.976	6.181			2.047
BX 132 SB	1.496 1.102(1)	3.150 2.362(1)	*M12* *M10(1)*	1.614 1.220(1)	0.394 0.315(1)	10.433	9.055	11.811			0.787	10.157	21.732	18.583	24.213	7.598	4.646	4.646	2.283
BX 132 MA																			
BX 160 MA	1.654 1.496(1)	4.331 3.150(1)	*M16* *M12(1)*	1.772 1.614(1)	0.472 0.394(1)	11.811	9.843	13.780	0.728	0.197	0.591	12.205	23.465	19.134	26.772	9.646	7.362	7.362	2.008
BX 160 MB													25.197	20.866	28.504				
BX 160 L																			
BX 180 M	1.890 1.654(1)	4.331 4.331(1)	*M16* *M16(1)*	2.028 1.772(1)	0.551 0.472(1)						0.709	13.701	27.874	23.543	32.402	10.276			2.047
BX 180 L																			
BX 200LAK	2.165 1.772(1)		*M20 M20(1)*	2.323 1.909(1)	0.630 0.551(1)	13.780	11.811	15.748	0.748		0.787	16.654	32.323	27.992	36.772	12.913	11.811	12.244	2.165
BX 225SAK	2.362 2.165(1)	5.512 4.331(1)		2.520 2.323(1)	0.709 0.630(1)	15.748	13.780	17.717			0.787	18.307	34.606	29.094	39.409	13.701			1.890
BX 225SBK											0.787								
BX 250MAK	2.559 2.165(1)			2.717 2.323(1)		19.685	17.717	21.654			0.945	20.236	34.803	29.291	39.764	14.803			
BX 280SAK	2.953 2.559(1)	5.512 5.512(1)		3.130 2.717(1)	0.787 0.709(1)				0.709		0.906	22.323	42.835	37.323	48.740	18.976	17.087	12.047	1.693
BX 280SBK											0.906								
BX 315SAK	3.150 2.953(1)	6.693 5.512(1)		3.346 3.130(1)	0.866 0.787(1)	23.622	21.654	25.984	0.906	0.236	0.984	25.394	47.402	40.709	53.228	21.142	18.622	13.661	1.654
BX 315SBK											0.984		60.236	53.543	66.142				
BX 315SCK											0.984		51.772	45.079	57.205				
BX 355SAK	3.937 2.953(1)	8.268 6.693(1)	*M24 M20(1)*	4.173 3.130(1)	1.102 0.787(1)	29.134	26.772	31.496			0.984	29.134	58.228	49.961	65.315	23.740	27.323	16.260	1.969
BX 355MAK											0.984								
BX 355MBK											0.984		62.362	54.094	69.449				
BX 355MCK											0.984								

N.B.: 1) These values refer to the rear shaft end (PS).



BX - IM B5 - FD - CUS/NBR



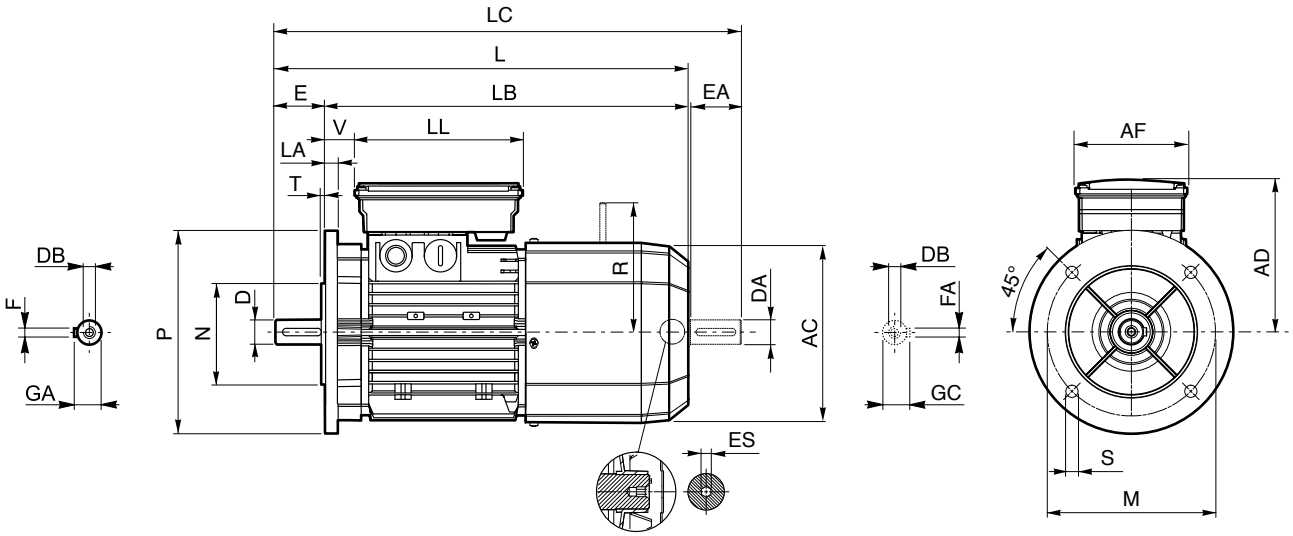
BX-IE3

[mm]

	Shaft					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R FD	ES (2)
BX 90 SR	19 19(1)	40 40(1)	M6 M6(1)	21.5 21.5(1)	6 6(1)	165	130	200	11.5	3.5	11.5	176	400	360	442	146	110	165	32	129	6
BX 90 S	24 19(1)	50 40(1)	M8 M6(1)	27 21.5(1)	8 6(1)								410		452						
BX 90 LA																				160	
BX 100 LA	28 24(1)	60 50(1)	M10 M8(1)	31 27(1)	8 8(1)	215	180	250	14	4	14	195	502	442	554	155			37		
BX 100 LB																					
BX 112 M											15	219	527	467	579	170			39	199	
BX 132 SB	38 28(1)	80 60(1)	M12 M10(1)	41 31(1)	10 8(1)	265	230	300			16	258	661	581	724	210	140	188	46	204	
BX 132 MA																					
BX 160 MA	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15	310	736	626	820	245	187	187	51	266	—
BX 160 MB													780	670	864						
BX 160 L																					
BX 180 M	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	866	756	981	261			52	305	
BX 180 L																					
BX 200LAK	55 45(1)		M20 M16(1)	59 48.5(1)	16 14(1)	350	300	400	19	5	20	417	967	857	1082	328	300	311	55	275	
BX 225SAK	60 55(1)	140 110(1)	M20 M20(1)	64 59(1)	18 16(1)	400	350	450				460	1065	925	1180	348			48	308	
BX 225SBK																					
BX 250MAK	65 55(1)			69 59(1)		500	450	550			24	510	1070	930	1240	376				313	
BX 280SAK	75 65(1)	140 140(1)		79.5 69(1)	20 18(1)				18		23	564	1284	1144	1379	482	434	306	43		
BX 280SBK																					
BX 315SAK	80 75(1)	170 140(1)		85 79.5(1)	22 20(1)	600	550	660	23	6	25	639	1493	1323	1643	537	473	347	42	500	
BX 315SBK													1530	1360	1680						
BX 315SCK													1604	1434	1791						
BX 355SAK	100 90(1)	210 170(1)	M24 M24(1)	106 95(1)	28 25(1)	740	680	800				725	1722	1512	1902	603	694	413	50	—	
BX 355MAK																					
BX 355MBK																					
BX 355MCK													1827	1617	2082						

N.B.: 1) These values refer to the rear shaft end (PS). 2) “ES” hexagon is not present with PS option

BX - IM B5 - FD - CUS/NBR



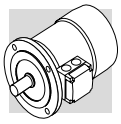
MX-IE3

[inch]

Dimensions are in Inch except when shown in *italic [mm]*

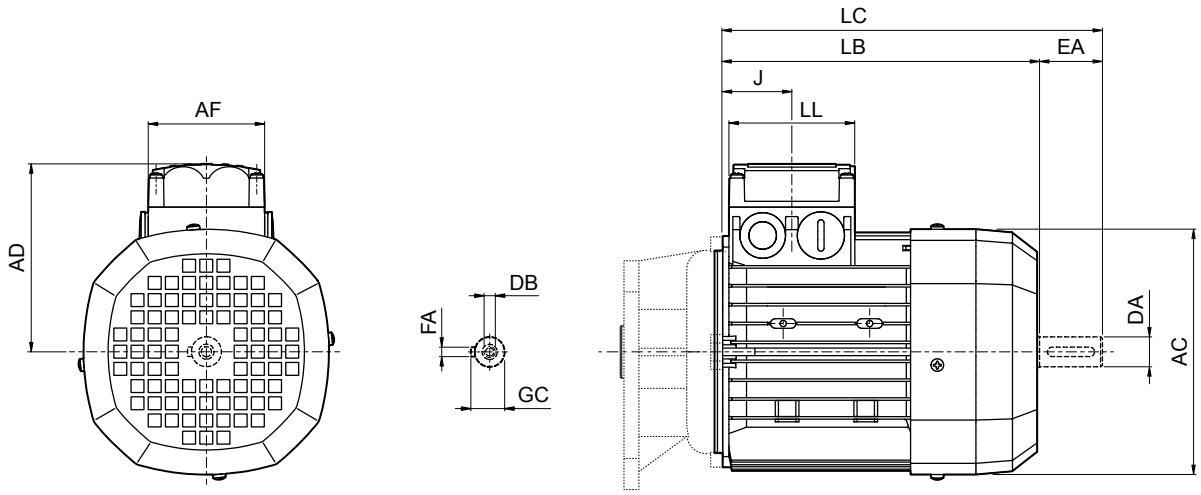
	Shaft					Flange						Motor									
	D **DA**	**E** **EA**	**DB**	**GA** **GC**	**F** **FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**	**R** **FD**	**ES** (2)
BX 90 SR	0.748 0.748(1)	1.575 1.575(1)	*M6* *M6*(1)	0.846 0.846(1)	0.236 0.236(1)	6.496	5.118	7.874	0.453	0.138	0.453	6.929	15.748	14.173	17.402	5.748	4.331	6.496	1.260	5.079	0.236
BX 90 S	0.945 0.748(1)	1.969 1.575(1)	*M8* *M6*(1)	1.063 0.846(1)	0.315 0.236(1)								16.142		17.795						
BX 90 LA																				6.299	
BX 100 LA	1.102 0.945(1)	2.362 1.969(1)	*M10* *M8*(1)	1.220 1.063(1)	0.315 0.315(1)	8.465	7.087	9.843	0.551	0.157	0.551	7.677	19.764	17.402	21.811	6.102			1.457		
BX 100 LB																					
BX 112 M											0.591	8.622	20.748	18.386	22.795	6.693			1.535	7.835	
BX 132 SB	1.496 1.102(1)	3.150 2.362(1)	*M12* *M10*(1)	1.614 1.220(1)	0.394 0.315(1)	10.433	9.055	11.811			0.630	10.157	26.024	22.874	28.504	8.268	5.512	7.402	1.811	8.031	
BX 132 MA																					
BX 160 MA	1.654 1.496(1)	4.331 3.150(1)	*M16* *M12*(1)	1.772 1.614(1)	0.472 0.394(1)	11.811	9.843	13.780	0.728	0.197	0.591	12.205	28.976	24.646	32.283	9.646	7.362	7.362	2.008	10.472	—
BX 160 MB													30.709	26.378	34.016						
BX 160 L																					
BX 180 M	1.890 1.654(1)	4.331 4.331(1)	*M16* *M16*(1)	2.028 1.772(1)	0.551 0.472(1)						0.709	13.701	34.094	29.764	38.622	10.276			2.047	12.008	
BX 180 L																					
BX 200LAK	2.165 1.772(1)		*M20* *M16*(1)	2.323 1.909(1)	0.630 0.551(1)	13.780	11.811	15.748				16.417	38.071	33.740	42.598	12.913			2.165	10.827	
BX 225SAK	2.362 2.165(1)	5.512 4.331(1)		2.520 2.323(1)	0.709 0.630(1)	15.748	13.780	17.717	0.748		0.787	18.110	41.929	36.417	46.457	13.701	11.811	12.244	1.890	12.126	
BX 225SBK																					
BX 250MAK	2.559 2.165(1)			2.717 2.323(1)							0.945	20.079	42.126	36.614	48.819	14.803				12.323	
BX 280SAK	2.953 2.559(1)	5.512 5.512(1)	*M20* *M20*(1)	3.130 2.717(1)	0.787 0.709(1)	19.685	17.717	21.654	0.709		0.906	22.205	50.551	45.039	54.291	18.976	17.087	12.047	1.693	19.685	
BX 280SBK																					
BX 315SAK	3.150 2.953(1)	6.693 5.512(1)		3.346 3.130(1)	0.866 0.787(1)	23.622	21.654	25.984	0.906	0.236	0.984	25.157	58.780	52.087	64.685	21.142	18.622	13.661	1.654		
BX 315SBK													60.236	53.543	66.142						
BX 315SCK													63.150	56.457	70.512						
BX 355SAK	3.937 3.543(1)	8.268 6.693(1)	*M24* *M24*(1)	4.173 3.740(1)	1.102 0.984(1)	29.134	26.772	31.496				28.543	67.795	59.528	74.882	23.740	27.323	16.260	1.969	—	
BX 355MAK																					
BX 355MBK																					
BX 355MCK													71.929	63.661	81.969						

N.B.: 1) These values refer to the rear shaft end (PS). 2) “ES” hexagon is not present with PS option

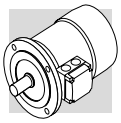


MX

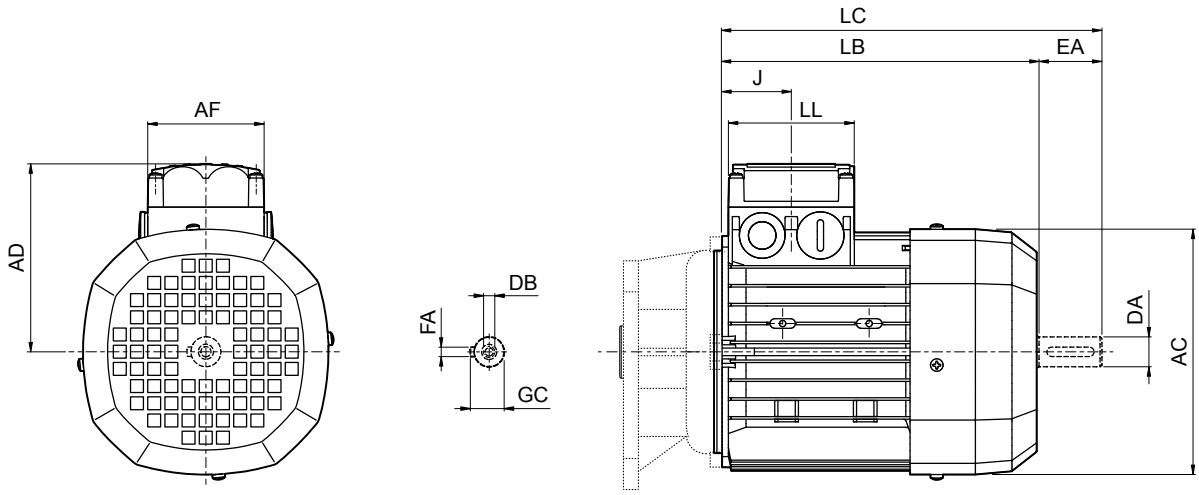
[mm]



	Rear shaft end					Motor						
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
MX 05A	9	20	M3	10	3	121	165	191	74	80	48	95
MX 05B												
MX 1SA	11	23	M4	13	4	138	187	219			45	108
MX 1SB												
MX 2SA	14	30	M5	16	5	156	200	232			44	119
MX 2SB							246	278				
MX 3SA	24	50	M8	27	8	195	265	317	98	98	53.5	142
MX 3SB												
MX 3LA							305	357				
MX 3LB												
MX 4SA	28	60	M10	31		258	361	424	118	118	64.5	193
MX 4SB												
MX 4LA							396	459				
MX 5SA	38	80	M12	41	10	310	418	502	187	187	77	245
MX 5SB							462	546				
MX 5LA												



MX

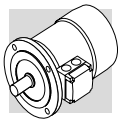


MX-IE3

[inch]

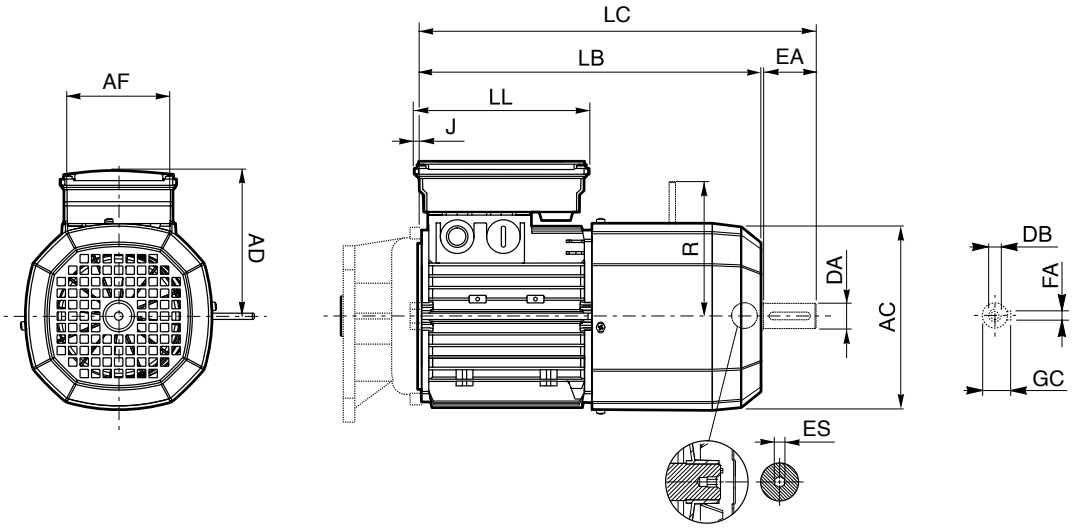
Dimensions are in Inch except when shown in *italic [mm]*

	Rear shaft end					Motor						
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
MX 05A	0.354	0.787	*M3*	0.394	0.118	4.764	6.496	7.520	2.913	3.150	1.890	3.740
MX 05B												
MX 1SA	0.433	0.906	*M4*	0.512	0.157	5.433	7.362	8.622			1.772	4.252
MX 1SB												
MX 2SA	0.551	1.181	*M5*	0.630	0.197	6.142	7.874	9.134			1.732	4.685
MX 2SB							9.685	10.945				
MX 3SA	0.945	1.969	*M8*	1.063	0.315	7.677	10.433	12.480	3.858	3.858	2.106	5.591
MX 3SB												
MX 3LA							12.008	14.055				
MX 3LB												
MX 4SA	1.102	2.362	*M10*	1.220		10.157	14.213	16.693	4.646	4.646	2.539	7.598
MX 4SB												
MX 4LA							15.591	18.071				
MX 5SA	1.496	3.150	*M12*	1.614	0.394	12.205	16.457	19.764	7.362	7.362	3.031	9.646
MX 5SB							18.189	21.496				
MX 5LA												



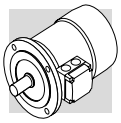
MX - FD

[mm]

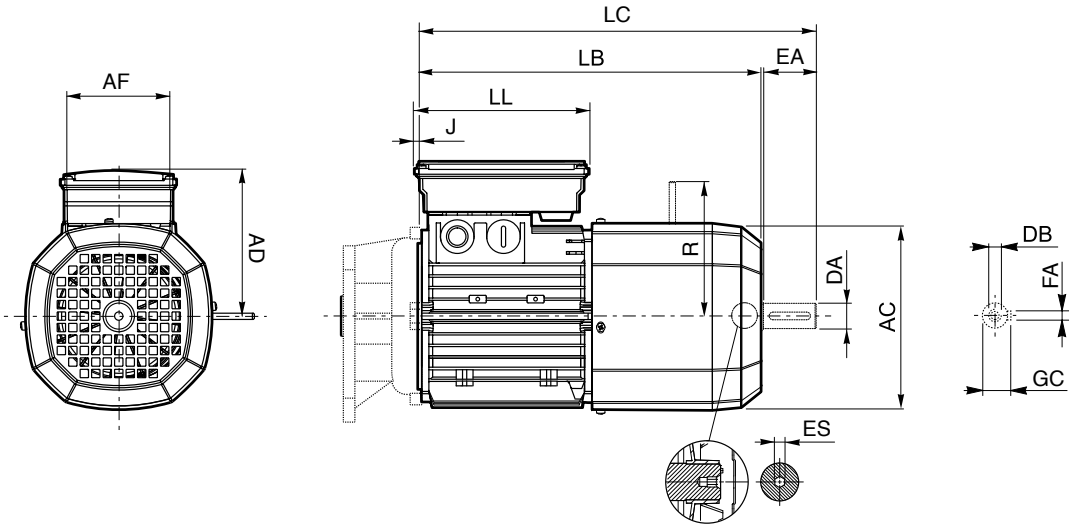


	Rear shaft end					Motor									
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**		**ES** [1]
MX 05A	9	20	M3	10	3	121	231	253	98	133	5	122	96	96	5
MX 05B															
MX 1SA	11	23	M4	13	4	138	248	273			8	135	103	103	
MX 1SB															
MX 2SA	14	30	M5	16	5	156	272	303			9	143	129	134	
MX 2SB							318	349							
MX 3SA	24	50	M8	27	8	195	355	407	110	165	7	155	160	160	6
MX 3SB															
MX 3LA							397	450							
MX 3LB															
MX 4SA	28	60	M10	31		258	470	534	140	188		210	204	200	
MX 4SB															
MX 4LA							494	558						226	
MX 5SA	38	80	M12	41	10	310	558	644	187	187	17	245	266	247	—
MX 5SB							602	686							
MX 5LA															

N.B.: 1) “ES” hexagon is not present with PS option



MX - FD



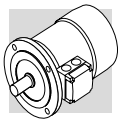
MX-IE3

[inch]

Dimensions are in Inch except when shown in *italic [mm]*

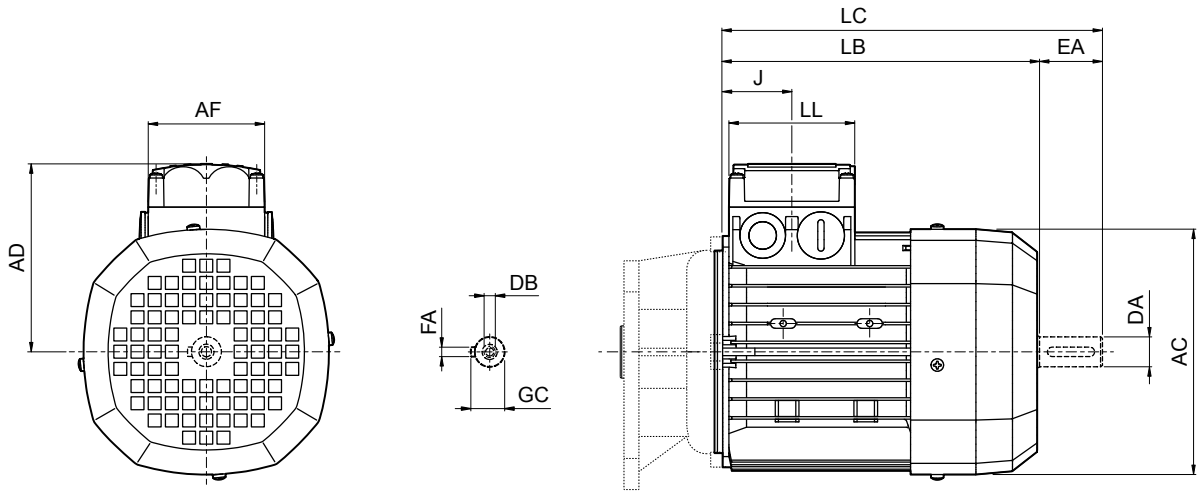
	Rear shaft end					Motor								
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R** FD	**ES** (1)
MX 05A	0.354	0.787	*M3*	0.394	0.118	4.764	9.094	9.961	3.858	5.236	0.197	4.803	3.780	0.197
MX 05B														
MX 1SA	0.433	0.906	*M4*	0.512	0.157	5.433	9.764	10.748			0.315	5.315	4.055	
MX 1SB														
MX 2SA	0.551	1.181	*M5*	0.630	0.197	6.142	10.709	11.929			0.354	5.630	5.079	
MX 2SB							12.520	13.740						
MX 3SA	0.945	1.969	*M8*	1.063	0.315	7.677	13.976	16.024	4.331	6.496	0.276	6.102	6.299	0.236
MX 3SB														
MX 3LA							15.630	17.717						
MX 3LB														
MX 4SA	1.102	2.362	*M10*	1.220		10.157	18.504	21.024	5.512	7.402		8.268	8.031	
MX 4SB														
MX 4LA							19.449	21.969						
MX 5SA	1.496	3.150	*M12*	1.614	0.394	12.205	21.969	25.354	7.362	7.362	0.669	9.646	10.472	—
MX 5SB							23.701	27.008						
MX 5LA														

N.B.: 1) “ES” hexagon is not present with PS option

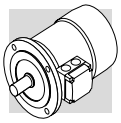


MX CUS/NBR

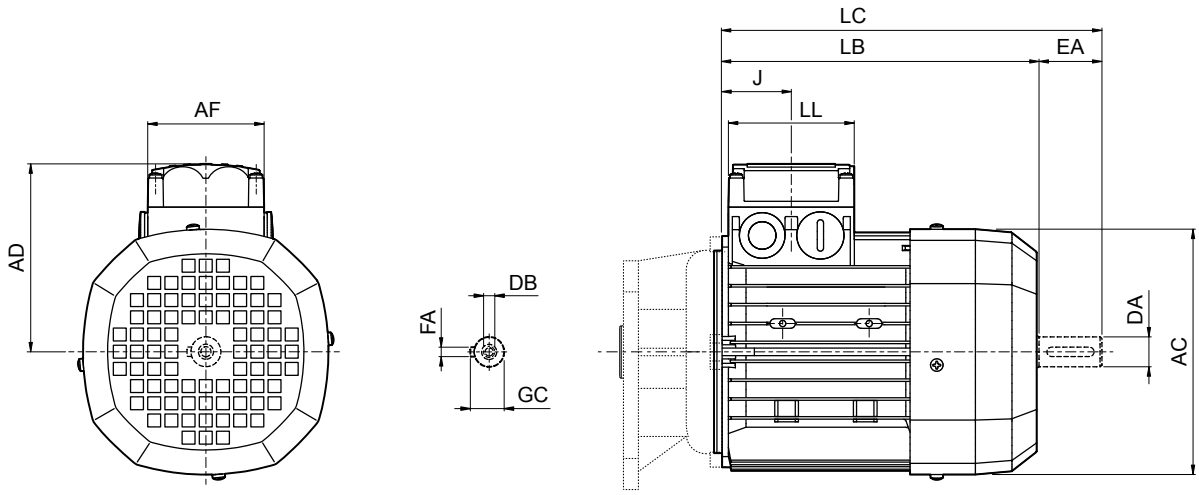
[mm]



	Rear shaft end					Motor						
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
MX 2SB	14	30	M5	16	5	176	262	293	98	98	79	133
MX 3SA	24	50	M8	27	8	195	265	317			53.5	142
MX 3SB												
MX 3LA							305	357				
MX 3LB												
MX 4SA	28	60	M10	31		258	361	424	118	118	64.5	193
MX 4SB							420	483				
MX 4LA												
MX 5SA	38	80	M12	41	10	310	418	502	187	187	77	245
MX 5SB							462	546				
MX 5LA												



MX CUS/NBR

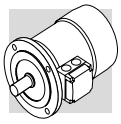


MX-IE3

[inch]

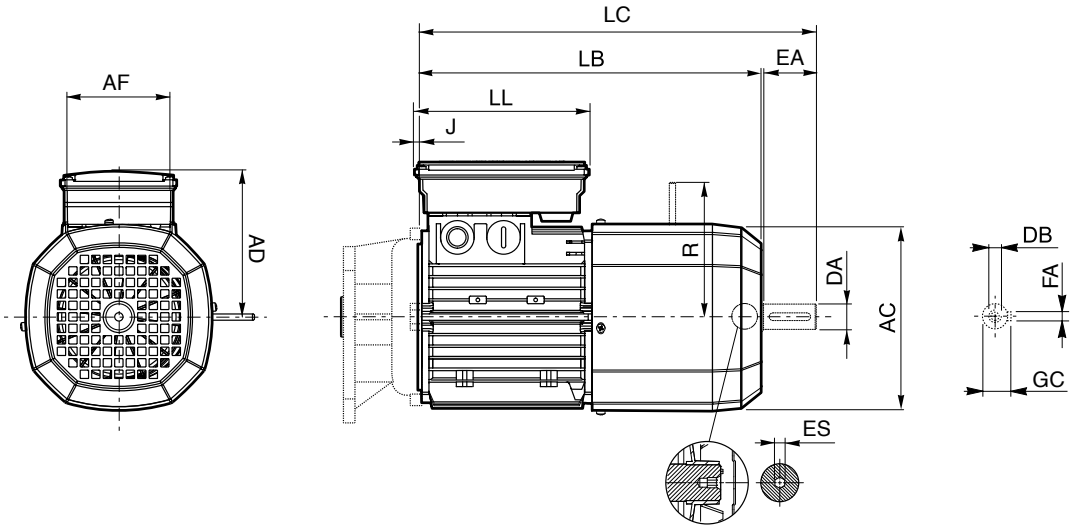
Dimensions are in Inch except when shown in *italic [mm]*

	Rear shaft end					Motor						
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
MX 2SB	0.551	1.181	*M5*	0.630	0.197	6.929	10.315	11.535	3.858	3.858	3.110	5.236
MX 3SA	0.945	1.969	*M8*	1.063	0.315	7.677	10.433	12.480			2.106	5.591
MX 3SB												
MX 3LA							12.008	14.055				
MX 3LB												
MX 4SA	1.102	2.362	*M10*	1.220		10.157	14.213	16.693	4.646	4.646	2.539	7.598
MX 4SB							16.535	19.016				
MX 4LA												
MX 5SA	1.496	3.150	*M12*	1.614	0.394	12.205	16.457	19.764	7.362	7.362	3.031	9.646
MX 5SB							18.189	21.496				
MX 5LA												



MX - FD CUS/NBR

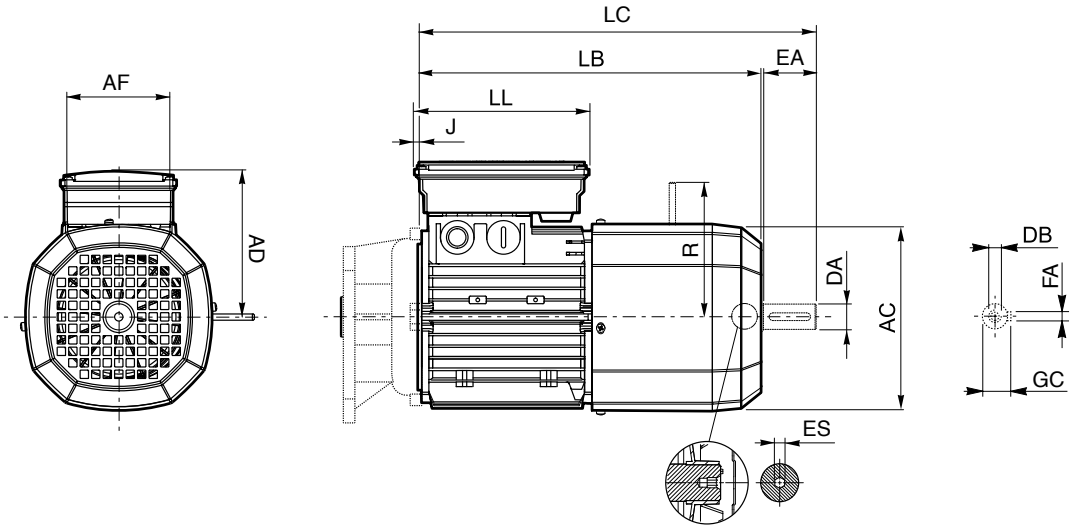
[mm]



	Rear shaft end					Motor									
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**		**ES** [1]
MX 2SB	14	30	M5	16	5	176	347	379	110	165	-17	146	129	134	6
MX 3SA	24	50	M8	27	8	195	355	407			7	155	160	160	
MX 3SB															
MX 3LA							397	450							
MX 3LB															
MX 4SA	28	60	M10	31		258	470	534	140	188		210	204	200	
MX 4SB							528	592							
MX 4LA														226	
MX 5SA	38	80	M12	41	10	310	558	644	187	187	17	245	266	247	—
MX 5SB							602	686							
MX 5LA															

N.B.: 1) “ES” hexagon is not present with PS option

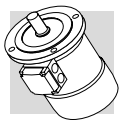
MX - FD CUS/NBR



Dimensions are in Inch except when shown in *italic [mm]*

	Rear shaft end					Motor								
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R** FD	**ES** (1)
MX 2SB	0.551	1.181	*M5*	0.630	0.197	6.929	13.661	14.921	4.331	6.496	-0.669	5.748	5.276	0.236
MX 3SA	0.945	1.969	*M8*	1.063	0.315	7.677	13.976	16.024			0.276	6.102	6.299	
MX 3SB														
MX 3LA							15.630	17.717						
MX 3LB														
MX 4SA	1.102	2.362	*M10*	1.220		10.157	18.504	21.024	5.512	7.402		8.268	7.874	
MX 4SB							20.787	23.307						
MX 4LA													8.898	
MX 5SA	1.496	3.150	*M12*	1.614	0.394	12.205	21.969	25.354	7.362	7.362	0.669	9.646	9.724	—
MX 5SB							23.701	27.008						
MX 5LA														

N.B.: 1) “ES” hexagon is not present with PS option

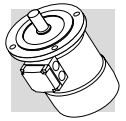


2 P	3000 min^{-1} - S1	50 Hz

																			d.c. brake FD									Standard	CUS variant	BIS variant
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + BIS
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.75	1	**BE 80A 2**	2860	2.5	22.1	1.65	80	79.6	76.4	0.83	6.8	3.8	3.5	J	9	0.0214	9.5	20.9	**FD 04**	5	44.2	2300	4300	10.6	0.0252	13.4	30	•	•	•
1.1	1.5	**BE 80B 2**	2845	3.7	32.7	2.35	81.5	82.2	79.9	0.83	6.9	3.8	3.1	J	11.4	0.0271	11.3	24.9	**FD 04**	10	88.5	1500	3100	13	0.0308	15.2	34	•	•	•
1.5	2	**BE 90SA 2**	2865	5	44.3	3.2	81.3	80.7	78.1	0.82	6.8	3.6	2.8	J	12.5	0.0297	12.3	27.1	**FD 14**	15	132	1000	2400	14.1	0.0335	16.5	36	•	•	•
2.2	3	**BE 90L 2**	2870	7.3	64.6	4.7	83.2	83.1	80.8	0.82	6.9	3.1	2.9	J	16.7	0.0396	14	30.9	**FD 05**	26	230	1000	2400	20.7	0.0491	20	44	•	•	•
3	4	**BE 100L 2**	2880	9.9	87.6	6.2	84.6	84.6	83.7	0.83	7.3	3.5	3.1	J	39	0.0925	23	50.7	**FD 15**	26	230	800	1800	43	0.1020	29	64	•	•	•
3.7	5	**BE 112M 2**	2930	12.1	107	7.8	85.5	83	81.2	0.79	7.9	3.5	3.1	J	57	0.1353	28	61.7	**FD 06S**	40	354	—	1100	66	0.1566	39	86		•	•
4	5.4	**BE 112M 2**	2920	13.1	116	8.2	85.8	85.5	84.3	0.82	7.9	3.5	3.1	K	57	0.1353	28	61.7	**FD 06S**	40	354	—	1000	66	0.1566	39	86	•		
5.5	7.5	**BE 132SA 2**	2925	18	159	10.6	87	85	81.7	0.86	8.5	3.6	3.3	K	145	0.3441	42	92.6	**FD 06**	50	443	—	640	156	0.3702	55	121	•	•	•
7.5	10	**BE 132SB 2**	2935	24	212	14.3	88.1	87.4	84.7	0.86	8.8	3.9	3.6	K	178	0.4224	53	117	**FD 06**	50	443	—	700	189	0.4485	66	146	•	•	•
9.2	12.5	**BE 132MB 2**	2920	30	266	16.4	88.8	86.5	84.2	0.91	8.4	3.7	3.3	J	210	0.4983	65	143	**FD 56**	75	664	—	530	221	0.5244	78	172	•	•	
11	15	**BE 160MA 2**	2940	36	319	20	89.4	89.5	88	0.89	8.1	3	2.9	J	340	0.8068	84	185	—	—	—	—	—	—	—	—	—	•	•	
15	20	**BE 160MB 2**	2950	49	434	27.2	90.5	90.5	89.5	0.88	8.5	3	2.8	K	420	0.9967	97	214	—	—	—	—	—	—	—	—	—	•	•	
18.5	25	**BE 160L 2**	2945	60	531	32	90.9	90.5	89.8	0.91	7.7	2.9	2.7	H	490	1.1628	109	240	—	—	—	—	—	—	—	—	—	•	•	

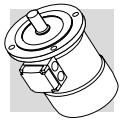
4 P	1500 min^{-1} - S1	50 Hz

																			d.c. brake FD									Standard	CUS variant	BIS variant
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + BIS
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.12	0.16	**BE 63A 4**	1360	0.84	7.4	0.45	59.1	59.6	53.5	0.65	3	2	2.2	G	2.3	0.0055	3.9	8.6	**FD 02**	1.75	15.5	11000	14000	2.9	0.0069	5.6	12	•	•	•
0.18	0.25	**BE 63B 4**	1370	1.25	11.1	0.64	64.7	65.1	59.8	0.62	3.5	2.3	2.5	G	3.3	0.0078	5.1	11.2	**FD 02**	3.5	31.0	9000	12000	3.9	0.0093	6.8	15	•	•	•
0.25	0.33	**BE 71A 4**	1380	1.73	15.3	0.68	68.5	68	62	0.78	4	2.3	2.5	H	5.8	0.0138	5.1	11.2	**FD 03**	3.5	31.0	11000	16000	6.9	0.0164	7.8	17	•	•	•
0.37	0.5	**BE 71B 4**	1385	2.55	22.6	1.05	72.7	69.3	64.2	0.75	4.0	2.3	2.2	G	6.9	0.0164	5.9	13.0	**FD 03**	5	44.3	6800	11000	8	0.0190	8.6	19	•	•	•
0.55	0.75	**BE 80A 4**	1430	3.7	32.7	1.38	77.1	73.4	68	0.77	6	2.2	1.9	L	19	0.0451	9.9	21.8	**FD 04**	10	89	4000	7700	20.6	0.0489	13.8	30	•	•	•
0.75	1	**BE 80B 4**	1430	5	44.3	1.65	81	80.5	78	0.81	6.1	3.2	3	H	28	0.0664	12.2	26.9	**FD 04**	15	133	3600	6800	29.6	0.0702	16.1	36	•	•	•
1.1	1.5	**BE 90S 4**	1430	7.4	65.5	2.53	82.5	82	79.5	0.76	6.3	2.9	2.8	J	28	0.0664	13.6	30.0	**FD 14**	15	133	4600	7700	29.6	0.0702	17.8	39	•	•	•
1.5	2	**BE 90LA 4**	1430	10	88.5	3.5	83.5	83	80	0.74	5.9	3.1	3	J	34	0.0807	15.1	33.3	**FD 05**	26	230	3500	6200	38	0.0902	21	47	•	•	•
2.2	3	**BE 100LA 4**	1430	14.7	130	4.9	85.4	85	84	0.76	5.8	3	2.8	H	54	0.1281	22	48.5	**FD 15**	40	354	2700	4700	58	0.1376	29	64	•	•	•
3	4	**BE 100LB 4**	1420	20	177	6.6	85.5	86	85.5	0.77	5.9	2.8	2.6	H	61	0.1448	24	52.9	**FD 15**	40	354	2500	4600	65	0.1542	31	68	•	•	•
3.7	5	**BE 112M 4**	1445	27	239	8.2	86.3	87	84.3	0.76	6.5	2.8	2.8	K	105	0.2492	32	70.5	**FD 06S**	60	531	—	1500	114	0.2705	42	93		•	•
4	5.4	**BE 112M 4**	1440	27	239	8.3	86.6	87	86	0.8	6.5	2.8	2.8	H	105	0.2492	32	70.5	**FD 06S**	60	531	—	1500	114	0.2705	42	93	•		
5.5	7.5	**BE 132S 4**	1460	36	319	11.1	88.5	88.5	87.5	0.81	7.3	2.9	2.9	J	270	0.6407	53	117.0	**FD 56**	75	664	—	1100	281	0.6668	66	146	•	•	•
7.5	10	**BE 132MA 4**	1460	49	434	14.8	89	89	88.5	0.82	6.9	2.9	2.8	H	319	0.7570	59	130.0	**FD 06**	100	885	—	920	330	0.7831	72	159	•	•	•
9.2	12.5	**BE 132MB 4**	1460	60	531	18.1	89.5	89.5	88.5	0.82	6.9	2.9	3	H	360	0.8543	70	154.0	**FD 07**	150	1328	—	950	382	0.9065	86	190	•	•	
11	15	**BE 160M 4**	1465	72	637	21.5	91	91.3	90.5	0.81	6.5	2.8	2.6	H	650	1.5425	99	218.0	**FD 08**	170	1505	—	770	725	1.7205	129	284	•	•	
15	20	**BE 160L 4**	1465	98	867	28.7	90.8	91	90.5	0.83	6.5	2.6	2.3	H	790	1.8747	115	254.0	**FD 08**	200	1770	—	690	865	2.0527	145	320	•	•	
18.5	25	**BE 180M 4**	1465	121	1071	35	91.6	92	91.3	0.83	6.5	2.6	2.5	H	1250	2.9662	135	298.0	**FD 09**	300	2655	—	700	1450	3.4409	175	386	•	•	
22	30	**BE 180L 4**	1465	143	1266	41	91.6	91.8	91.4	0.84	6.8	2.7	2.6	H	1650	3.9155	157	346.0	**FD 09**	300	2655	—	—	1850	4.3901	197	434	•	•	



BE-IE2

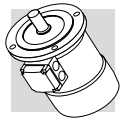
6 P	1000 min^{-1} - S1	50 Hz



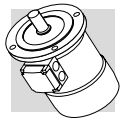
																			d.c. brake FD									Standard	CUS variant	BIS variant
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + BIS
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.75	1	**BE 90S 6**	935	7.7	68.2	2.06	75.9	75.9	73	0.69	5.1	3.1	2.9	J	33	0.0783	15	33.1	**FD 14**	15	133	3600	6800	34.6	0.0821	19.2	42	•	•	•
1.1	1.5	**BE 100M 6**	945	11.1	98.2	2.75	78.1	76.2	73	0.74	4.9	2.2	1.9	G	82	0.1946	22	48.5	**FD 15**	26	230	1100	2000	86	0.2041	30	66	•	•	•
1.5	2	**BE 100LA 6**	945	15.2	135	3.9	79.8	77.5	74	0.72	5.6	2.5	2.3	J	95	0.2254	24	52.9	**FD 15**	40	354	1900	4100	99	0.2349	30	66	•	•	•
2.2	3	**BE 112M 6**	950	22	195	5.2	81.8	81.8	79.3	0.74	5.2	2.6	2.3	G	168	0.3987	32	70.5	**FD 06S**	60	531	—	2400	177	0.4200	43	95	•	•	•
3	4	**BE 132S 6**	955	30	266	6.6	83.3	83.3	82.4	0.79	6.1	2.1	1.9	H	295	0.7000	44	97.0	**FD 56**	75	664	—	1400	306	0.7261	57	126	•	•	•
3.7	5	**BE 132MA 6**	970	36.1	320	8.3	84.3	83.6	81.3	0.76	6.9	2.1	2	J	383	0.9089	44	97	**FD 06**	100	885	—	1100	394	0.9350	69	152		•	•
4	5.4	**BE 132MA 6**	965	40	354	8.7	84.9	85	83.1	0.79	6.9	2.2	2	J	383	0.9089	56	123	**FD 06**	100	885	—	1000	394	0.9350	69	152	•		
5.5	7.5	**BE 160MA 6**	965	54	478	11.6	87	87	86.4	0.79	6.6	2.5	2.3	H	740	1.7560	83	183	**FD 08**	170	1505	—	610	815	1.9340	113	249	•	•	
7.5	10	**BE 160MB 6**	965	74	655	15	88	88	87.2	0.82	6.6	2.3	2.1	H	970	2.3018	103	227	**FD 08**	170	1505	—	730	1045	2.4798	133	293	•	•	

4 P	1800 min^{-1} - S1	60 Hz

																			d.c. brake FD								Standard	CUS variant
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm		A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.12	0.16	**BE63A**	**4**	1700	0.67	5.9	0.41	64.8	62	55	0.61	4	3.4	2.8	J	2.3	0.0055	3.9	8.6	**FD 02**	1.75	15.5	7800	10000	2.9	0.0069	5.6	12	•	•
0.18	0.25	**BE63B**	**4**	1700	1	8.9	0.58	68	67.9	61.2	0.59	4.2	4	3.1	J	3.3	0.0078	5.1	11.2	**FD 02**	3.5	31.0	6500	8400	3.9	0.0093	6.8	15	•	•
0.25	0.33	**BE71A**	**4**	1700	1.4	12.4	1.04	70	68.3	61.6	0.74	5	3.1	3.4	K	5.8	0.0138	5.1	11.2	**FD 03**	3.5	31.0	9900	14000	6.9	0.0164	7.8	17	•	•
0.37	0.5	**BE71B**	**4**	1715	2.06	18.2	0.93	72	71.7	66.3	0.74	5	3	3.2	J	6.9	0.0164	5.9	13.0	**FD 03**	5	44.3	6300	9900	8	0.0190	8.6	19	•	•
0.55	0.75	**BE 80A**	**4**	1740	3	26.6	1.23	75.5	73.1	66.8	0.74	8.7	3.8	3.0	N	19	0.0451	9.9	21.8	**FD 04**	10	88.5	3300	6800	20.6	0.0489	13.8	30	•	•
0.75	1	**BE 80B**	**4**	1745	4.1	36.3	1.46	82.5	81.1	77.6	0.78	7.6	3.5	3.2	K	28	0.0664	12.2	26.9	**FD 04**	15	133	2300	4600	29.6	0.0702	16.1	36	•	•
1.1	1.5	**BE 90S**	**4**	1740	6	53.1	2.25	84	82.7	79	0.73	7.7	3.5	3.2	L	28	0.0664	13.6	30.0	**FD 14**	15	133	2700	6200	29.6	0.0702	17.8	39	•	•
1.5	2	**BE 90LA**	**4**	1740	8.2	72.6	3.1	84.5	83.9	80.7	0.73	7.1	3.6	3.4	K	34	0.0807	15.1	33.3	**FD 05**	26	230	2100	4500	38	0.0902	21	47	•	•
2.2	3	**BE 100LA**	**4**	1745	12	106	4.2	87.5	85.5	83.2	0.76	7	3.3	2.9	J	54	0.1281	22	48.5	**FD 15**	40	354	890	2400	58	0.1376	29	64	•	•
3	4	**BE 100LB**	**4**	1735	16.5	146	5.9	87.5	87.7	86.3	0.76	7	3.2	2.9	K	61	0.1448	24	52.9	**FD 15**	40	354	—	1000	65	0.1542	31	68	•	•
3.7	5	**BE 112M**	**4**	1750	20	177	6.6	87.5	87.5	86.1	0.8	7.8	3.3	3.2	K	105	0.2492	32	70.5	**FD 06S**	60	531	—	730	114	0.2705	42	93		•
4	5.4	**BE 112M**	**4**	1745	21.9	194	7.1	87.5	88	86.7	0.8	7.3	3.0	3.2	J	105	0.2492	32	70.5	**FD 06S**	61	540	—	730	114	0.2705	43	95	•	
5.5	7.5	**BE 132S**	**4**	1760	30	266	9.3	89.5	89.5	87.7	0.83	8.7	3.5	3.5	K	270	0.6407	53	117	**FD 56**	75	664	—	880	281	0.6668	66	146	•	•
7.5	10	**BE 132MA**	**4**	1760	43	381	12.7	89.5	89.5	87.9	0.83	8	3.4	3.3	K	319	0.7570	59	130	**FD 06**	100	885	—	700	330	0.7831	72	159	•	•
9.2	12.5	**BE 132MB**	**4**	1760	50	443	15.6	90	90	88.6	0.82	8.3	3.5	3.6	K	360	0.8543	70	154	**FD 07**	150	1328	—	590	382	0.9065	86	190	•	•
11	15	**BE 160M**	**4**	1765	60	531	18.7	91	91	90	0.81	7.7	2.9	2.8	J	650	1.5425	99	218	**FD 08**	170	1505	—	370	725	1.7205	129	284	•	•
15	20	**BE 160L**	**4**	1770	81	717	25.5	91	90.5	89.5	0.81	7.1	3.1	2.7	J	790	1.8747	115	254	**FD 08**	200	1770	—	320	865	2.0527	145	320	•	•
18.5	25	**BE 180M**	**4**	1765	100	885	30.3	92.4	91.9	90.5	0.83	7.3	2.7	2.5	H	1250	2.9663	135	298	**FD 09**	300	2655	—	200	1450	3.4409	175	386	•	•
22	30	**BE 180L**	**4**	1770	119	1053	36	92.4	92.5	92.2	0.83	8.1	3.3	3.2	J	1650	3.9155	157	346	**FD 09**	300	2655	—	150	1850	4.3901	197	434	•	•



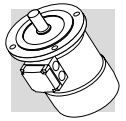
2 P	3000 min^{-1} - S1	50 Hz



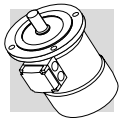
																		d.c. brake FD									Standard	CUS variant
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.75	1	**ME 2SA**	**2**	2860	2.5	22.1	1.63	80	79.6	76.4	0.83	6.8	3.8	3.5	J	9	0.0214	8.8	19.4	**FD 04**	5	44.3	2300	4300	10.6	0.0252	12.7	28	•	•
1.1	1.5	**ME 2SB**	**2**	2845	3.7	32.7	2.35	81.5	82.2	79.9	0.83	6.9	3.8	3.1	J	11.4	0.0271	10.6	23.4	**FD 04**	10	88.5	1500	3100	13	0.0308	14.5	32	•	•
1.5	2	**ME 3SA**	**2**	2845	5.0	44.3	3.2	81.3	79	76	0.84	6.1	2.9	2.7	H	24	0.0570	15.5	34.2	**FD 15**	13	115	470	1200	28	0.0664	22	49	•	•
2.2	3	**ME 3LA**	**2**	2895	7.3	64.6	4.8	83.2	83.1	80.8	0.8	6.3	2.7	2.5	H	31	0.0736	18.7	41.2	**FD 15**	26	230	500	1200	35	0.0831	25	56	•	•
3	4	**ME 3LB**	**2**	2880	9.9	87.6	6.2	84.6	84.6	83.7	0.83	7.3	3.5	3.1	J	39	0.0925	22	48.5	**FD 15**	26	230	800	1800	43	0.1020	28	63	•	•
3.7	5	**ME 4SA**	**2**	2930	12.1	107	7.8	84.7	83	81.2	0.79	7.9	2.9	2.8	J	101	0.2397	33	72.8	**FD 06**	50	443	—	630	112	0.2658	46	101		•
4	5.4	**ME 4SA**	**2**	2900	13.2	117	7.8	85.8	84.5	82.2	0.87	7.0	2.9	2.8	H	101	0.2397	33	72.8	**FD 06**	50	443	—	580	112	0.2658	46	101	•	
5.5	7.5	**ME 4SB**	**2**	2925	18.0	159	10.6	87.0	85.0	81.7	0.86	8.5	3.6	3.3	K	145	0.3441	40	88.2	**FD 06**	50	443	—	640	156	0.3702	53	117	•	•
7.5	10	**ME 4LA**	**2**	2935	24	212	14.3	88.1	87.4	84.7	0.86	8.8	3.9	3.6	K	178	0.4224	51	112	**FD 06**	50	443	—	700	189	0.4485	64	141	•	•
9.2	12.5	**ME 4LB**	**2**	2920	30	266	16.4	88.8	86.5	84.2	0.91	8.4	3.7	3.3	J	210	0.4983	60	132	**FD 56**	75	664	—	530	221	0.5244	73	161	•	•
11	15	**ME 5SA**	**2**	2940	36	319	20.0	89.4	89.5	88.0	0.89	8.1	3.0	2.9	J	340	0.8068	70	154										•	•
15	20	**ME 5SB**	**2**	2950	49	434	27.2	90.5	90.5	89.5	0.88	8.5	3.0	2.8	K	420	0.9967	83	183										•	•
18.5	25	**ME 5LA**	**2**	2945	60	531	32	90.9	90.5	89.8	0.91	7.7	2.9	2.7	H	490	1.1628	95	209										•	•

4 P	1500 min^{-1} - S1	50 Hz

																			d.c. brake FD								Standard	CUS variant
P_n			n	M_n		In 400V	η%			cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	$lb·ft^2$	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	$lb·ft^2$	Kg	lbs		
0.12	0.16	**ME 05A**	**4**	1360	0.84	7.4	0.45	59.1	59.6	53.5	0.65	3	2	2.2	G	2.3	0.0055	3.6	7.9	**FD 02**	1.75	15.5	11000	14000	2.9	0.0069	5.3	12	•	•
0.18	0.25	**ME 05B**	**4**	1370	1.25	11.1	0.64	64.7	65.1	59.8	0.62	3.5	2.3	2.5	G	3.3	0.0078	4.8	10.6	**FD 02**	3.5	31.0	9000	12000	3.9	0.0093	6.5	14	•	•
0.25	0.33	**ME 1SA**	**4**	1380	1.73	15.3	0.68	68.5	68	62	0.78	4	2.3	2.5	H	5.8	0.0138	4.8	10.6	**FD 03**	3.5	31.0	11000	16000	6.9	0.0164	7.5	17	•	•
0.37	0.5	**ME 1SB**	**4**	1385	2.55	22.6	1.05	72.7	69.3	64.2	0.75	4.0	2.3	2.2	G	6.9	0.0164	5.5	12.1	**FD 03**	5	44.3	6800	11000	8	0.0190	8.2	18	•	•
0.55	0.75	**ME 2SA**	**4**	1430	3.7	32.7	1.38	77.1	73.4	68	0.77	6	2.2	1.9	L	19	0.0451	9.9	21.8	**FD 04**	10	88.5	4000	7700	20.6	0.0489	13.8	30	•	•
0.75	1	**ME 2SB**	**4**	1430	5	44.3	1.65	81	80.5	78	0.81	6.1	3.2	3.0	H	28	0.0664	12.2	26.9	**FD 04**	15	133	3600	6800	29.6	0.0702	16.1	36	•	•
1.1	1.5	**ME 3SA**	**4**	1430	7.4	65.5	2.6	82.5	82.0	79.0	0.74	5.5	2.5	2.8	H	34	0.0807	15.5	34.2	**FD 15**	26	230	2700	4700	38	0.0902	22	47	•	•
1.5	2	**ME 3SB**	**4**	1420	10	88.5	3.48	84.0	84.0	83.0	0.74	5.9	2.9	2.9	J	40	0.0949	17	37.5	**FD 15**	26	230	2600	4700	44	0.1044	23	51	•	•
2.2	3	**ME 3LA**	**4**	1430	14.7	130	4.89	85.4	85	84	0.76	5.8	3	2.8	H	54	0.1281	21	46.3	**FD 15**	40	354	2700	4700	58	0.1376	27	60	•	•
3	4	**ME 3LB**	**4**	1420	20	177	6.58	85.5	86.0	85.5	0.77	5.9	2.8	2.6	H	61	0.1448	23	50.7	**FD 15**	40	354	2500	4600	65	0.1542	29	64	•	•
3.7	5	**ME 4SA**	**4**	1460	27	239	7.5	86.6	87.1	85.6	0.82	7.1	3	3.1	K	213	0.5055	42	92.6	**FD 56**	75	664	—	1100	224	0.5316	55	121		•
4	5.4	**ME 4SA**	**4**	1440	27	239	8.25	87.5	86.8	84.0	0.8	7.1	3	3.1	J	213	0.5055	42	92.6	**FD 56**	75	664	—	1100	224	0.5316	55	121	•	
5.5	7.5	**ME 4SB**	**4**	1460	36	319	11.07	88.5	88.5	87.5	0.81	7.3	2.9	2.9	J	270	0.6407	51	112	**FD 56**	75	664	—	1100	281	0.6668	64	141	•	•
7.5	10	**ME 4LA**	**4**	1460	49	434	14.83	89.0	89.0	88.5	0.82	6.9	2.9	2.8	H	319	0.7570	57	126	**FD 06**	100	885	—	920	330	0.7831	70	154	•	•
9.2	12.5	**ME 4LB**	**4**	1460	60	531	18.09	89.5	89.5	88.5	0.82	6.9	2.9	3.0	H	360	0.8543	65	143	**FD 07**	150	1328	—	950	382	0.9065	81	179	•	
11	15	**ME 5SA**	**4**	1465	72	637	21.54	91.0	91.3	90.5	0.81	6.5	2.8	2.6	H	650	1.5425	85	187	**FD 08**	170	1505	—	770	725	1.7205	115	254	•	
15	20	**ME 5LA**	**4**	1465	98	867	28.73	90.8	91.0	90.5	0.83	6.5	2.6	2.3	H	790	1.8747	101	223	**FD 08**	200	1770	—	690	865	2.0527	131	289	•	



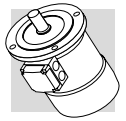
6 P	1000 min^{-1} - S1	50 Hz

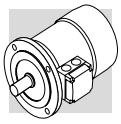


														d.c. brake						a.c. brake				
														FD						FA				
P_n kW		n min^{-1}	M_n Nm	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J_m x 10^{-4} kgm^2	IM B5 Kg	Mod	M_b Nm	Z_O 1/h NB	Z_O 1/h SB	J_m x 10^{-4} kgm^2	IM B5 Kg	Mod	M_b Nm	Z_O 1/h	J_m x 10^{-4} kgm^2	IM B5 Kg
0.75	**ME 3SA 6**	940	7.6	1.98	75.9	75	70.7	0.72	4.7	2.2	2	33	17	**FD 15**	26	3400	6500	28	21	**FA 15**	26	6500	28	22
1.1	**ME 3LA 6 (*)**	945	11.1	2.75	78.1	76.2	73	0.74	4.9	2.2	1.9	82	21	**FD 15**	26	2700	5000	37	27	**FA 15**	26	5000	37	28
1.5	**ME 3LB 6**	945	15.2	3.8	79.8	77.5	74	0.72	5.6	2.5	2.3	95	23	**FD 15**	40	1900	4100	86	29	**FA 15**	40	4100	86	30
2.2	**ME 4SA 6**	955	22	4.9	81.8	81.8	80	0.8	5.7	1.9	1.7	216	34	**FD 56**	75	—	2100	177	47	**FA 06**	60	2100	177	48
3.7	**ME 4LA 6**	970	36.1	8.3	83.5	83.6	81.3	0.76	6.9	2.2	2	383	54	**FD 06**	100	—	1200	305	70	**FA 06**	100	1200	305	72

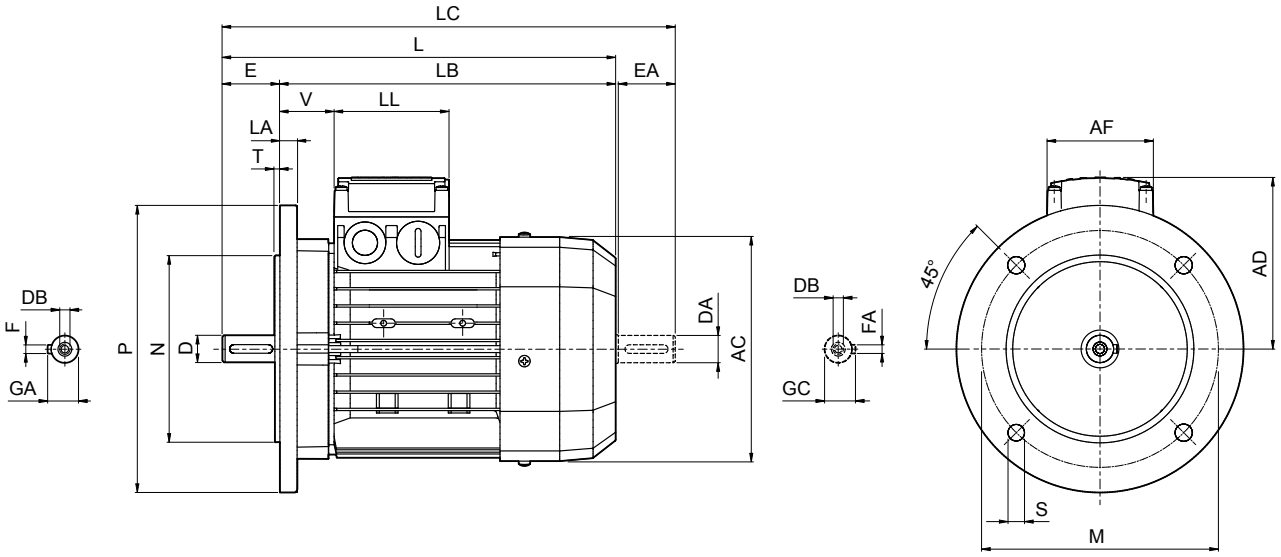
4 P	1800 min^{-1} - S1	60 Hz

																			d.c. brake FD								Standard	CUS variant
P_n			n	M_n		In 400V	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.12	0.16	**ME05A 4**	1700	0.67	5.9	0.41	64.8	62	55	0.61	4	3.4	2.8	J	2.3	0.0055	3.6	7.9	**FD 02**	1.75	15.5	7800	10000	2.9	0.0069	5.3	12	•	•
0.18	0.25	**ME05B 4**	1700	1	8.9	0.58	68	67.9	61.2	0.59	4.2	4	3.1	J	3.3	0.0078	4.8	10.6	**FD 02**	3.5	31.0	6500	8400	3.9	0.0093	6.5	14	•	•
0.25	0.33	**ME1SA 4**	1700	1.4	12.4	1.04	70	68.3	61.6	0.74	5	3.1	3.4	K	5.8	0.0138	4.8	10.6	**FD 03**	3.5	31.0	9900	14000	6.9	0.0164	7.5	17	•	•
0.37	0.5	**ME1SB 4**	1715	2.06	18.2	0.93	72	71.7	66.3	0.74	5	3	3.2	J	6.9	0.0164	5.5	12.1	**FD 03**	5	44.3	6300	9900	8	0.0190	8.2	18	•	•
0.55	0.75	**ME 2SA 4**	1740	3	26.6	1.23	75.5	73.1	66.8	0.74	8.7	3.8	3.0	N	19	0.0451	9.9	21.8	**FD 04**	10	88.5	3300	6800	20.6	0.0489	13.8	30	•	•
0.75	1	**ME 2SB 4**	1745	4.1	36.3	1.46	82.5	81.1	77.6	0.78	7.6	3.5	3.2	K	28	0.0664	12.2	26.9	**FD 04**	15	133	2300	4600	29.6	0.0702	16.1	36	•	•
1.1	1.5	**ME 3SA 4**	1740	6	53.1	2.25	84	82.7	79	0.73	7.7	3.5	3.2	J	34	0.0807	15.5	34.2	**FD 15**	26	230	1700	3400	38	0.0902	22	47	•	•
1.5	2	**ME 3SB 4**	1740	8.2	72.6	3.1	84.5	83.9	80.7	0.73	7.1	3.6	3.4	K	40	0.0949	17	37.5	**FD 15**	26	230	1000	2800	44	0.1044	23	51	•	•
2.2	3	**ME 3LA 4**	1745	12	106	4.2	87.5	85.5	83.2	0.76	7	3.3	2.9	J	54	0.1281	21	46.3	**FD 15**	40	354	890	2400	58	0.1376	27	60	•	•
3	4	**ME 3LB 4**	1735	16.5	146	5.9	87.5	87.7	86.3	0.76	7	3.2	2.9	K	61	0.1448	23	50.7	**FD 15**	40	354	—	1000	65	0.1542	29	64	•	•
3.7	5	**ME 4SA 4**	1750	20	177	6.6	87.5	87.5	86.1	0.8	7.8	3.3	3.2	J	213	0.5055	42	92.6	**FD 56**	75	664	—	880	224	0.5316	55	121		•
4	5.4	**ME 4SA 4**	1790	21.3	189	7.2	87.5	85.5	82.7	0.82	7.2	3.1	3.2	H	213	0.5055	42	92.6	**FD 56**	75	664	—	880	224	0.5316	55	121	•	
5.5	7.5	**ME 4SB 4**	1760	30	266	9.3	89.5	89.5	87.7	0.83	8.7	3.5	3.5	K	270	0.6407	51	112	**FD 56**	75	664	—	880	281	0.6668	64	141	•	•
7.5	10	**ME 4LA 4**	1760	43	381	12.7	89.5	89.5	87.9	0.83	8	3.4	3.3	K	319	0.7570	57	126	**FD 06**	100	885	—	700	330	0.7831	70	154	•	•
9.2	12.5	**ME 4LB 4**	1760	50	443	15.6	90	90	88.6	0.82	8.3	3.5	3.6	K	360	0.8543	65	143	**FD 07**	150	1328	—	590	382	0.9065	81	179	•	•
11	15	**ME 5SA 4**	1765	60	531	18.7	91	91	90	0.81	7.7	2.9	2.8	J	650	1.5425	85	187	**FD 08**	170	1505	—	360	725	1.7205	115	254	•	•
15	20	**ME 5LA 4**	1770	81	717	25.5	91	90.5	89.5	0.81	7.1	3.1	2.7	J	790	1.8747	101	223	**FD 08**	200	1770	—	320	865	2.0527	131	289	•	•





BE - IM B5

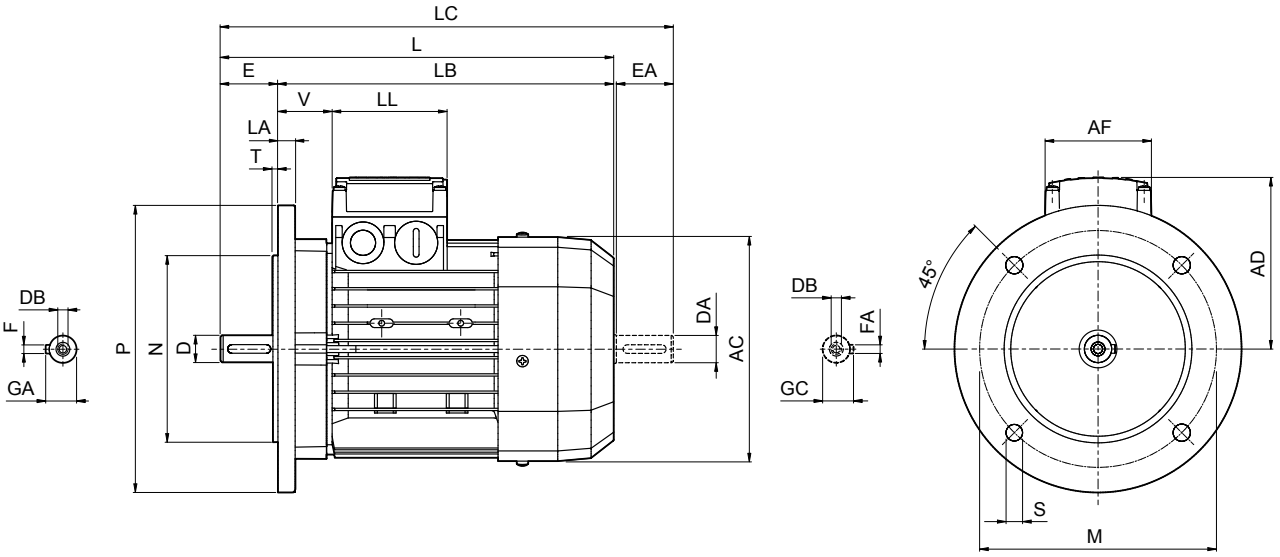


[mm]

	Shaft					Flange						Motor							
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V
BE 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	207	184	232	95	74	80	26
BE 71	14	30	M5	16	5	130	110	160		3.5		138	249	219	281	108			37
BE 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	274	234	315	119			38
BE 90 S	24	50	M8	27	8							176	326	276	378	133	98	98	44
BE 90 L																			
BE 100	28	60	M10	31		215	180	250	14	4	14	195	367	307	429	142			50
BE 112											15	219	385	325	448	157			52
BE 132 S	38	80	M12	41	10	265	230	300			20	258	493	413	576	193	118	118	58
BE 132 MA																			
BE 132 MB													528	448	611				
BE 160 M	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15	310	596	486	680	245	187	187	51
BE 160 L													640	530	724				
BE 180 M	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	708	598	823	261			52
BE 180 L																			

N.B.: 1) These values refer to the rear shaft end.

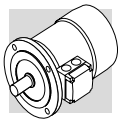
BE - IM B5



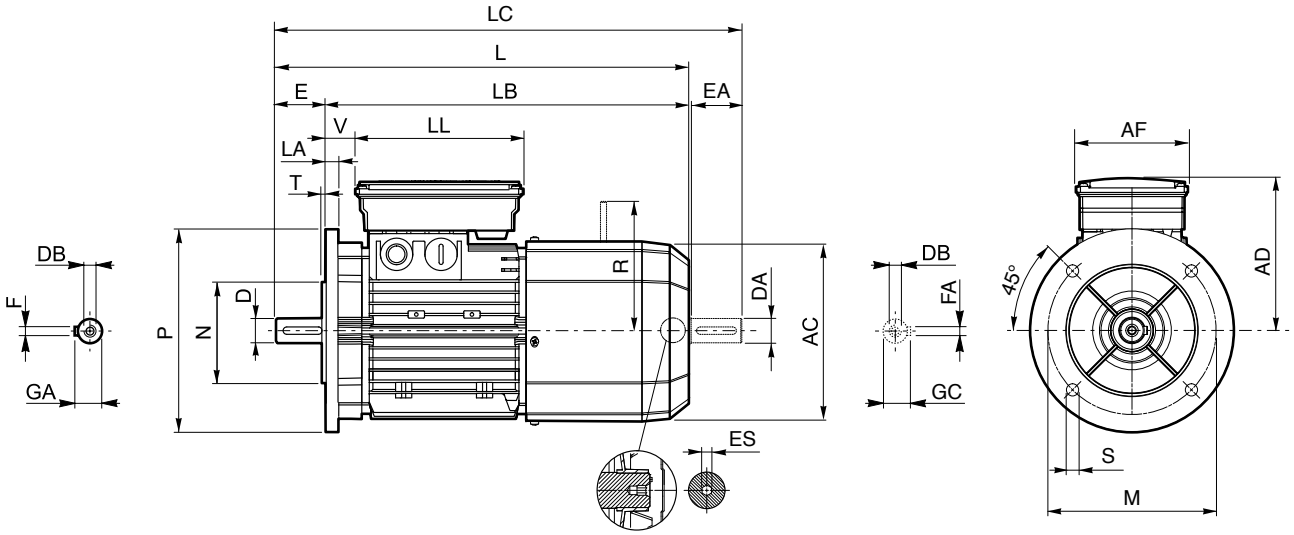
Dimensions are in Inch except when shown in *italic [mm]*

	Shaft					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BE 63	0.433	0.906	*M4*	0.492	0.157	4.528	3.740	5.512	0.374	0.118	0.394	4.764	8.150	7.244	9.134	3.740	2.913	3.150	1.024
BE 71	0.551	1.181	*M5*	0.630	0.197	5.118	4.331	6.299				5.433	9.803	8.622	11.063	4.252			1.457
BE 80	0.748	1.575	*M6*	0.846	0.236	6.496	5.118	7.874	0.453	0.138	0.453	6.142	10.787	9.213	12.402	4.685			1.496
BE 90 S	0.945	1.969	*M8*	1.063	0.315							6.929	12.835	10.866	14.882	5.236	3.858	3.858	1.732
BE 90 L																			
BE 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843	0.551		0.551	7.677	14.449	12.087	16.890	5.591			1.969
BE 112											0.591	8.622	15.157	12.795	17.638	6.181			2.047
BE 132 S	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811		0.157	0.787	10.157	19.409	16.260	22.677	7.598	4.646	4.646	2.283
BE 132 MA																			
BE 132 MB													20.787	17.638	24.055				
BE 160 M	1.654 1.496(1)	4.331 3.150(1)	*M16 M12(1)*	1.772 1.614(1)	0.472 0.394(1)	11.811	9.843	13.780	0.728	0.197	0.591	12.205	23.465	19.134	26.772	9.646	7.362	7.362	2.008 2.047
BE 160 L													25.197	20.866	28.504				
BE 180 M	1.890 1.654(1)	4.331 4.331(1)	*M16 M16(1)*	2.028 1.772(1)	0.551 0.472(1)						0.709	13.701	27.874	23.543	32.402	10.276			
BE 180 L																			

N.B.: 1) These values refer to the rear shaft end.



BE - IM B5 - FD

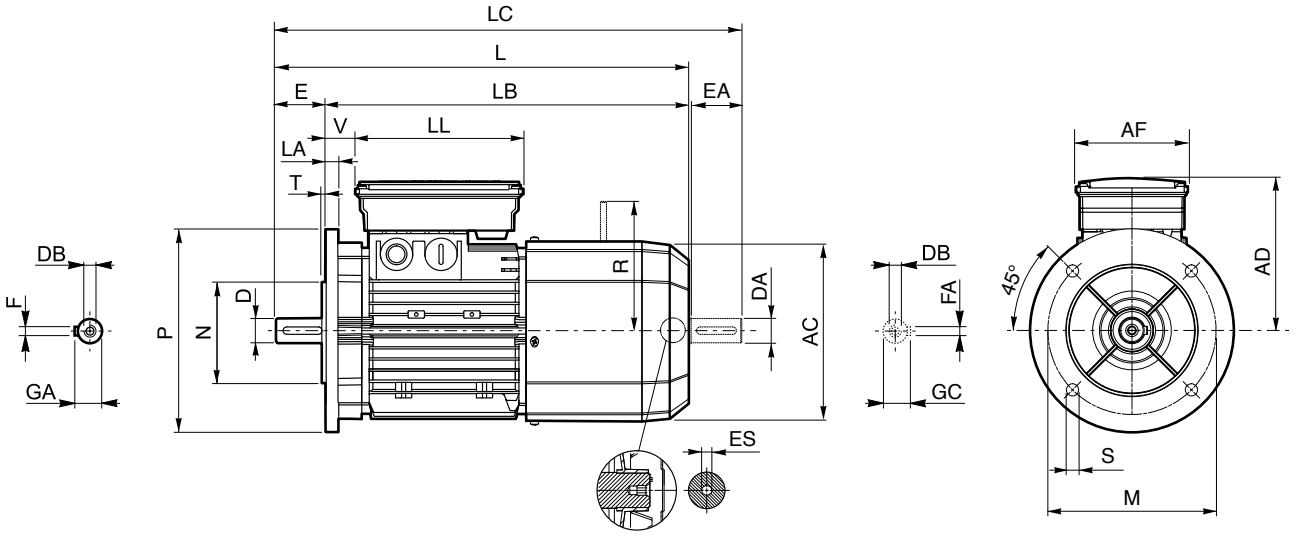


[mm]

	Shaft					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R FD	ES (2)
BE 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	122	98	133	14	96	5
BE 71	14	30	M5	16	5	130	110	160		3.5		138	313	283	345	135			24	103	
BE 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	348	308	390	143			25	129	
BE 90 S	24	50	M8	27	8							176	411	361	463	146	110	165	32		6
BE 90 L																				160	
BE 100	28	60	M10	31		215	180	250	14	4	14	195	458	398	521	155			37		
BE 112											15	219	484	424	547	170			39	199	
BE 132 S	38	80	M12	41	10	265	230	300			20	258	603	523	686	210	140	188	46	204	
BE 132 MA																					
BE 132 MB													628	548	711					226	—
BE 160 M	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15	310	736	626	820	245	187	187	51	266	
BE 160 L													780	670	864						
BE 180 M	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	866	756	981	261			52	305	
BE 180 L																					

N.B.: 1) These values refer to the rear shaft end (PS). 2) “ES” hexagon is not present with PS option

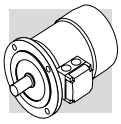
BE - IM B5 - FD



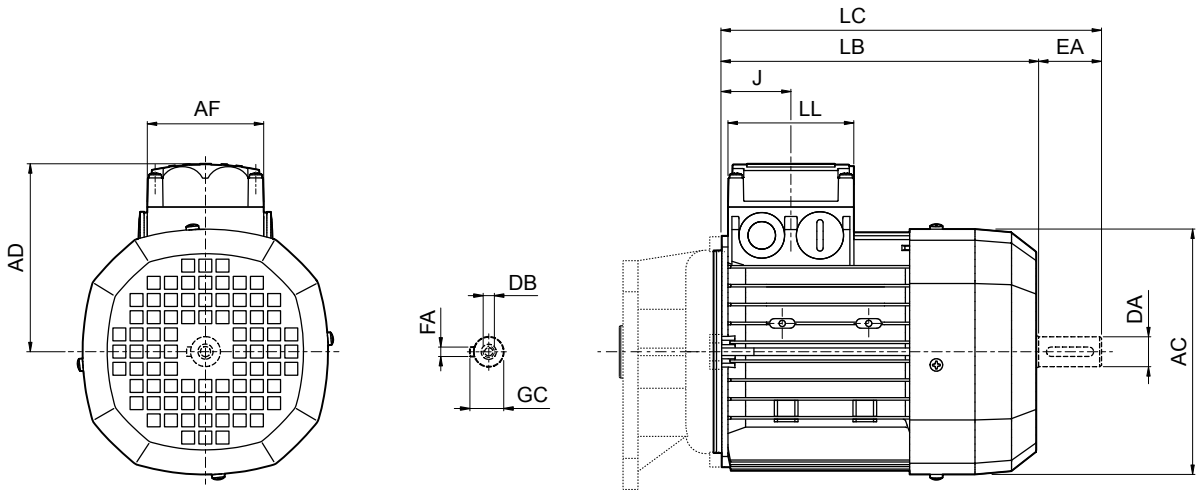
Dimensions are in Inch except when shown in *italic [mm]*

	Shaft					Flange						Motor									
	D **DA**	**E** **EA**	**DB**	**GA** **GC**	**F** **FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**	**R** **FD**	**ES** (2)
BE 63	0.433	0.906	*M4*	0.492	0.157	4.528	3.740	5.512	0.374	0.118	0.394	4.764	10.709	9.803	11.693	4.803	3.858	5.236	0.551	3.780	0.197
BE 71	0.551	1.181	*M5*	0.630	0.197	5.118	4.331	6.299				5.433	12.323	11.142	13.583	5.315			0.945	4.055	
BE 80	0.748	1.575	*M6*	0.846	0.236	6.496	5.118	7.874	0.453	0.138	0.453	6.142	13.701	12.126	15.354	5.630			0.984	5.079	
BE 90 S	0.945	1.969	*M8*	1.063	0.315							6.929	16.181	14.213	18.228	5.748	4.331	6.496	1.260	6.299	0.236
BE 90 L																					
BE 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843	0.551	0.157	0.551	7.677	18.031	15.669	20.512	6.102			1.457		
BE 112											0.591	8.622	19.055	16.693	21.535	6.693			1.535	7.835	
BE 132 S	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811			0.787	10.157	23.740	20.591	27.008	8.268	5.512	7.402	1.811	8.031	
BE 132 MA																					
BE 132 MB													24.724	21.575	27.992					8.898	—
BE 160 M	1.654 1.496(1)	4.331 3.150(1)	*M16 M12*(1)	1.772 1.614(1)	0.472 0.394(1)	11.811	9.843	13.780	0.728	0.197	0.591	12.205	28.976	24.646	32.283	9.646	7.362	7.362	2.008	10.472	
BE 160 L													30.709	26.378	34.016						
BE 180 M	1.890 1.654(1)	4.331 4.331(1)	*M16 M16*(1)	2.028 1.772(1)	0.551 0.472(1)						0.709	13.701	34.094	29.764	38.622	10.276			2.047	12.008	
BE 180 L																					

N.B.: 1) These values refer to the rear shaft end (PS). 2) “ES” hexagon is not present with PS option



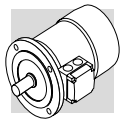
ME

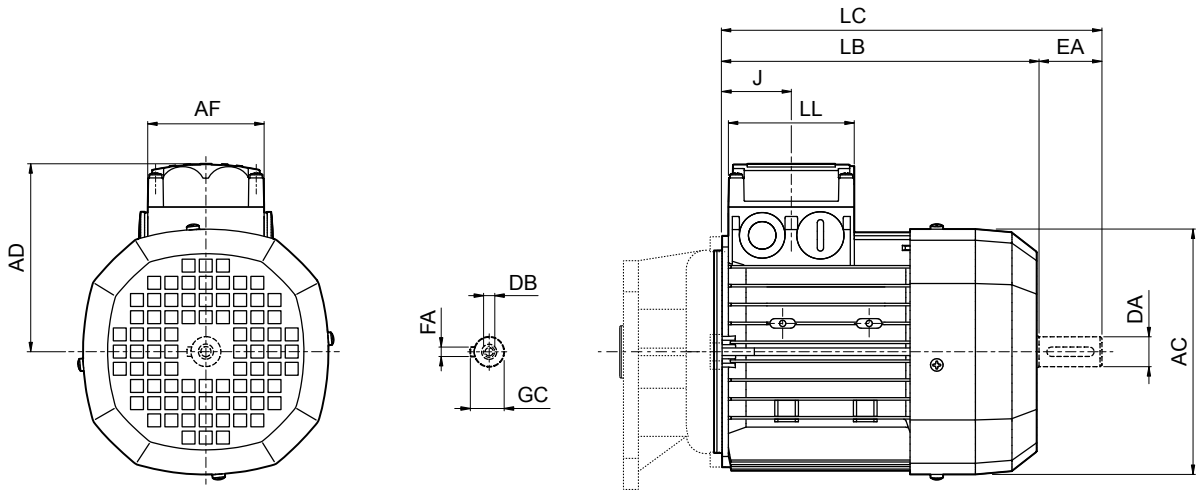


ME-IE2

[mm]

	Rear shaft end					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
ME 05	11	23	M4	12.5	4	121	165	191	74	80	48	95
ME 1S	14	30	M5	16	5	138	187	219			45	108
ME 2S	19	40	M6	21.5	6	156	202	245			44	119
ME 3S	28	60	M10	31	8	195	230	293	98	98	53.5	142
ME 3L							262	325				
ME 4S	38	80	M12	41	10	258	361	444	118	118	64.5	193
ME 4L												
ME 4LB							396	479				
ME 5S	38	80	M12	41	10	310	418	502	187	187	77	245
ME 5L							462	546				

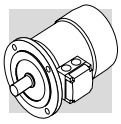




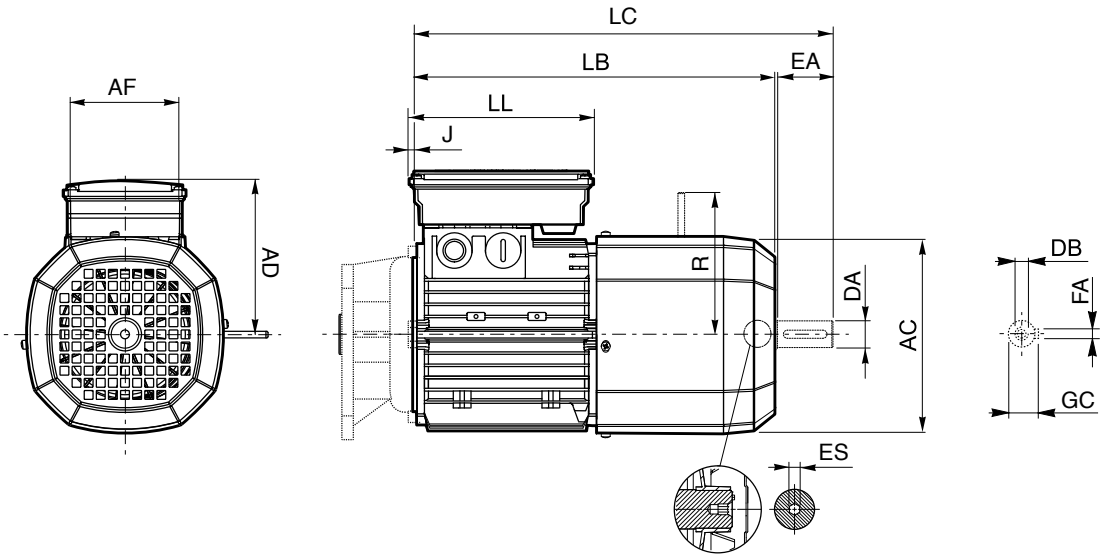
Dimensions are in Inch except when shown in *italic [mm]*

[inch]

	Rear shaft end					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
ME 05	0.433	0.906	*M4*	0.492	0.157	4.764	6.496	7.520	2.913	3.150	1.890	3.740
ME 1S	0.551	1.181	*M5*	0.630	0.197	5.433	7.362	8.622			1.772	4.252
ME 2S	0.748	1.575	*M6*	0.846	0.236	6.142	7.953	9.646			1.732	4.685
ME 3S	1.102	2.362	*M10*	1.220	0.315	7.677	9.055	11.535	3.858	3.858	2.106	5.591
ME 3L							10.315	12.795				
ME 4S	1.496	3.150	*M12*	1.614	0.394	10.157	14.213	17.480	4.646	4.646	2.539	7.598
ME 4L												
ME 4LB							15.591	18.858				
ME 5S						12.205	16.457	19.764	7.362	7.362	3.031	9.646
ME 5L							18.189	21.496				



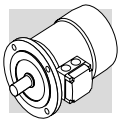
ME - FD



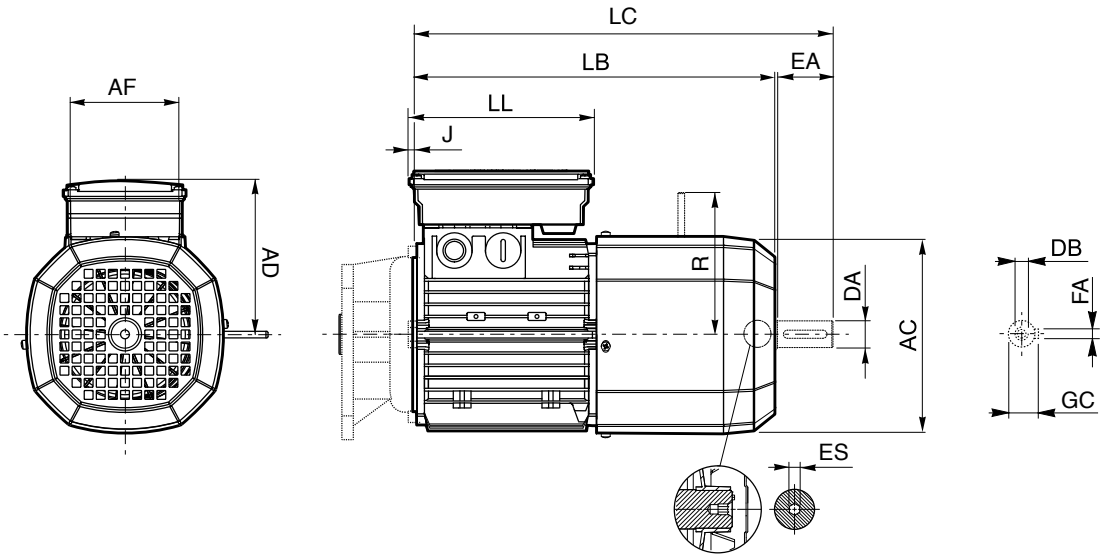
[mm]

	Rear shaft end					Motor									
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**		**ES** [1]
ME 05	11	23	M4	12.5	4	121	231	256	98	133	-4.5	119	96	116	5
ME 1S	14	30	M5	16	5	138	248	280			-8	135	103	124	
ME 2S	19	40	M6	21.5	6	156	272	314			-17	143	129	134	
ME 3S	28	60	M10	31	8	195	326	389	110	165	7	155	160	160	6
ME 3L							353	416							
ME 4S	38	80	M12	41	10	258	470	553	140	188	7	210	204	200	
ME 4LA															
ME 4LB							495	578					226	217	
ME 5S	38	80	M12	41	10	310	558	642	187	187	17	245	266	247	---
ME 5L							602	686							

N.B.: 1) “ES” hexagon is not present with PS option



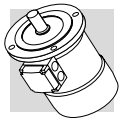
ME - FD



Dimensions are in Inch except when shown in *italic [mm]*

	Rear shaft end					Motor								
	DA	**EA**	**DB**	**GC**	**FA**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R** FD	**ES** (1)
ME 05	0.433	0.906	*M4*	0.492	0.157	4.764	9.094	10.079	3.858	5.236	-0.177	4.685	3.780	0.197
ME 1S	0.551	1.181	*M5*	0.630	0.197	5.433	9.764	11.024			-0.315	5.315	4.055	
ME 2S	0.748	1.575	*M6*	0.846	0.236	6.142	10.709	12.362			-0.669	5.630	5.079	
ME 3S	1.102	2.362	*M10*	1.220	0.315	7.677	12.835	15.315	4.331	6.496	0.276	6.102	6.299	0.236
ME 3L							13.898	16.378						
ME 4S	1.496	3.150	*M12*	1.614	0.394	10.157	18.504	21.772	5.512	7.402	0.276	8.268	8.031	
ME 4LA														
ME 4LB							19.488	22.756					8.898	
ME 5S	1.496	3.150	*M12*	1.614	0.394	12.205	21.969	25.276	7.362	7.362	0.669	9.646	10.472	—
ME 5L							23.701	27.008						

N.B.: 1) “ES” hexagon is not present with PS option

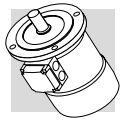


2P	3000 min^{-1} - S1	50 Hz

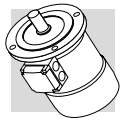
P_n kW	P_n hp		n min^{-1}	M_n Nm	M_n lb·in	In 400V A	η% 100%	η% 75%	η% 50%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	d.c. brake FD Mod	M_b Nm	M_b lb·in	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	Standard CE	CUS variant CE + UL	CCC variant CE + CCC
0.18	0.25	**BN 63A 2**	2730	0.63	5.6	0.56	59.9	56.9	51.9	0.77	3	2.1	2.0	E	2.0	0.0048	3.5	7.7	**FD 02**	1.75	15	3900	4800	2.6	0.0062	5.2	11	•	•	
0.25	0.33	**BN 63B 2**	2740	0.87	7.7	0.72	66	64.8	64.8	0.76	3.3	2.3	2.3	E	2.3	0.0055	3.9	8.6	**FD 02**	1.75	15	3900	4800	3.0	0.0071	5.6	12	•	•	
0.37	0.5	**BN 63C 2**	2800	1.26	11.2	0.99	69.1	66.8	66.8	0.78	3.9	2.6	2.6	F	3.3	0.0078	5.1	11	**FD 02**	3.5	31	3600	4500	3.9	0.0093	6.8	15	•	•	
0.37	0.5	**BN 71A 2**	2820	1.25	11.1	0.95	73.8	73	70.6	0.76	4.8	2.8	2.6	H	3.5	0.0082	5.4	12	**FD 03**	3.5	31	3000	4100	4.6	0.0109	8.1	18	•	•	
0.55	0.75	**BN 71B 2**	2820	1.86	16.5	1.37	76	75.8	74.8	0.76	5	2.9	2.8	H	4.1	0.0097	6.2	14	**FD 03**	5	44	2900	4200	5.3	0.0126	8.9	20	•	•	
0.75	1	**BN 71C 2**	2810	2.6	23	1.86	76.6	76.2	76.2	0.76	5.1	3.1	2.8	H	5.0	0.0119	7.3	16	**FD 03**	5	44	1900	3300	6.1	0.0145	10	22	•	•	
0.75	1	**BN 80A 2**	2810	2.6	23	1.75	76.2	75.5	68.3	0.81	4.8	2.6	2.2	G	7.8	0.0185	8.6	19	**FD 04**	5	44	1700	3200	9.4	0.0223	12.5	28	•	•	
1.1	1.5	**BN 80B 2**	2800	3.8	33.6	2.57	76.4	76.2	75	0.81	4.8	2.8	2.4	G	9.0	0.0214	9.5	21	**FD 04**	10	89	1500	3000	10.6	0.0252	13.4	30	•	•	
1.5	2	**BN 80C 2**	2800	5.1	45	3.4	79.1	79.5	77.2	0.81	4.9	2.7	2.4	G	11.4	0.0271	11.3	25	**FD 04**	15	133	1300	2600	13.0	0.0308	15.2	34	•	•	
1.5	2	**BN 90SA 2**	2870	5	44	3.4		81.5	78.1	0.8	5.9	2.7	2.6	H	12.5	0.0297	12.3	27	**FD 14**	15	133	900	2200	14.1	0.0335	16.5	36	•	•	
1.85	2.5	**BN 90SB 2**	2880	6.1	54	4	82.5	82	75.4	0.8	6.2	2.9	2.6	H	16.7	0.0397	14	31	**FD 14**	15	133	900	2200	18.3	0.0434	18.2	40	•	•	
2.2	3	**BN 90L 2**	2880	7.3	65	4.8	82.7	82.1	80.8	0.8	6.3	2.9	2.7	J	16.7	0.0397	14	31	**FD 05**	26	230	900	2200	21	0.0498	20	44	•	•	
3	4	**BN 100L 2**	2860	10	89	6.7	81.5	81.3	77.4	0.79	5.6	2.6	2.2	H	31	0.0736	20	44	**FD 15**	26	230	700	1600	35	0.0831	26	57	•	•	
4	5.5	**BN 100LB 2**	2870	13.3	118	8.7	83.1	83	77.8	0.8	5.8	2.7	2.5	H	39	0.0926	23	51	**FD 15**	40	354	450	900	43	0.102	29	64	•	•	
4	5.5	**BN 112M 2**	2900	13.2	117	8.2	85.5	84.5	83	0.82	6.9	3	2.9	J	57	0.135	28	62	**FD 06S**	40	354	—	950	66	0.157	39	86	•	•	
5.5	7.5	**BN 132SA 2**	2890	18.2	161	11.2	84.7	84.5	81.2	0.84	5.9	2.6	2.2	G	101	0.240	35	77	**FD 06**	50	443	—	600	112	0.266	48	106	•	•	
7.5	10	**BN 132SB 2**	2900	25	221	14.7	86.5	86.3	84.4	0.85	6.4	2.6	2.2	H	134	0.318	42	93	**FD 06**	50	443	—	550	145	0.344	55	121	•	•	
9.2	12.5	**BN 132M 2**	2930	30	266	17.7	87	86.5	83.6	0.86	6.7	2.8	2.3	H	178	0.422	53	117	**FD 56**	75	664	—	430	189	0.449	66	146	•	•	
11	15	**BN 160MR 2**	2920	36	319	20.6	87.6	87	86	0.88	6.9	2.9	2.5	H	210	0.499	65	143										•	•	
15	20	**BN 160MB 2**	2930	49	434	28.1	89.6	89.4	88	0.86	7.1	2.6	2.3	H	340	0.808	84	185										•	•	
18.5	25	**BN 160L 2**	2930	60	531	34	90.4	90.1	89	0.86	7.6	2.7	2.3	J	420	0.998	97	214										•	•	
22	30	**BN 180M 2**	2930	72	637	40	89.9	89.7	89.5	0.88	7.8	2.6	2.4	J	490	1.164	109	240										•	•	
30	40	**BN 200LA 2**	2930	98	867	54	90.7	90.1	87.6	0.89	7.8	2.7	2.9	J	770		140	309										•	•	

4P	1500 min^{-1} - S1	50 Hz

																			d.c. brake FD									Standard	CUS variant	CCC variant
P_n			n	M_n		In 400V	η%			cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + CCC
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.06	0.08	**BN 56A**	**4**	1340	0.43	3.8	0.28	46.8	44.2	41.3	0.65	2.6	2.3	2	H	1.5	0.0036	3.1	6.8										•	•	•
0.09	0.12	**BN 56B**	**4**	1350	0.64	5.7	0.42	51.7	47.6	42.9	0.60	2.6	2.5	2.4	H	1.5	0.0036	3.1	6.8										•	•	•
0.12	0.16	**BN 63A**	**4**	1350	0.85	7.5	0.47	59.8	56.2	47	0.62	2.6	1.9	1.8	F	2	0.0047	3.5	7.7	**FD 02**	1.75	15	10000	13000	2.6	0.0062	5.2	11	•	•	
0.18	0.25	**BN 63B**	**4**	1320	1.3	11.5	0.71	54.8	52.9	52.5	0.67	2.6	2.2	2	F	2.3	0.0055	3.9	8.6	**FD 02**	3.5	31	10000	13000	3	0.0071	5.6	12	•	•	
0.25	0.33	**BN 63C**	**4**	1340	1.78	15.8	0.8	65.3	65	57.9	0.69	2.7	2.1	1.9	E	3.3	0.0078	5.1	11	**FD 02**	3.5	31	7800	10000	3.9	0.0093	6.8	15	•	•	
0.25	0.33	**BN 71A**	**4**	1380	1.73	15.3	0.78	63.7	62.2	59.1	0.73	3.3	1.9	1.7	F	5.8	0.0138	5.1	11	**FD 03**	3.5	31	7700	11000	6.9	0.0164	7.8	17	•	•	
0.37	0.5	**BN 71B**	**4**	1370	2.6	23	1.05	66.8	66.7	63	0.76	3.7	2	1.9	F	6.9	0.0164	5.9	13	**FD 03**	5	44	6000	9400	8	0.0190	8.6	19	•	•	
0.55	0.75	**BN 71C**	**4**	1380	3.8	33.6	1.55	69	68.9	68.8	0.74	4.1	2.3	2.3	G	9.1	0.0216	7.3	16	**FD 53**	7.5	66	4300	8700	10.2	0.0242	10	22	•	•	
0.55	0.75	**BN 80A**	**4**	1390	3.8	33.6	1.43	72	71.3	69.7	0.77	4.1	2.3	2	F	15	0.0356	8.2	18	**FD 04**	10	89	4100	8000	16.6	0.0394	12.1	27	•	•	
0.75	1	**BN 80B**	**4**	1400	5.1	45	1.85	75	74.5	69.3	0.78	4.9	2.7	2.5	H	20	0.0475	9.9	22	**FD 04**	15	133	4100	7800	22	0.0522	13.8	30	•	•	
1.1	1.5	**BN 80C**	**4**	1400	7.5	66	2.7	75.5	76.2	70.4	0.78	5.1	2.8	2.5	H	25	0.0593	11.3	25	**FD 04**	15	133	2600	5300	27	0.0641	15.2	34	•	•	
1.1	1.5	**BN 90S**	**4**	1390	7.6	67	2.7	76.5	76.2	72.2	0.77	4.6	2.6	2.2	G	21	0.0498	12.2	27	**FD 14**	15	133	4800	8000	23	0.0546	16.4	36	•	•	
1.5	2	**BN 90LA**	**4**	1410	10.2	90	3.6	78.7	78.5	74.9	0.77	5.3	2.8	2.4	H	28	0.0664	13.6	30	**FD 05**	26	230	3400	6000	32	0.0759	19.6	43	•	•	
1.85	2.5	**BN 90LB**	**4**	1390	12.7	112	4.3	78.6	78.9	77.2	0.79	5.1	2.8	2.6	G	30	0.0712	15.1	33	**FD 05**	26	230	3200	5900	34	0.0807	21	47	•	•	
2.2	3	**BN 100LA**	**4**	1410	14.9	132	5.2	81.1	81.4	79.9	0.75	4.5	2.2	2	F	40	0.0949	18	40	**FD 15**	40	354	2600	4700	44	0.1044	25	55	•	•	
3	4	**BN 100LB**	**4**	1410	20	177	6.8	82.6	83.8	83.7	0.77	5	2.3	2.2	G	54	0.1281	22	49	**FD 15**	40	354	2400	4400	58	0.1376	28	62	•	•	
4	5.5	**BN 100LC**	**4**	1400	27.3	241.5	9	82.7	83.1	80.5	0.78	4.7	2.3	2.2	F	61	0.1448	24	53	**FD 55**	55	487	—	1300	65	0.1542	30	66	•	•	
4	5.5	**BN 112M**	**4**	1430	27	239	8.4	84.4	84.2	81.6	0.81	5.6	2.7	2.5	G	98	0.2326	30	66	**FD 06S**	60	531	—	1400	107	0.2539	40	88	•	•	
5.5	7.5	**BN 132S**	**4**	1440	36	319	11.6	84.7	84.8	82.5	0.81	5.5	2.3	2.2	G	213	0.5055	44	97	**FD 56**	75	664	—	1050	223	0.5292	57	126	•	•	
7.5	10	**BN 132MA**	**4**	1440	50	443	15.5	86	86.3	85.3	0.81	5.7	2.5	2.4	H	270	0.6407	53	117	**FD 06**	100	885	—	950	280	0.6645	66	146	•	•	
9.2	12.5	**BN 132MB**	**4**	1440	61	540	18.8	88.4	88.6	87.5	0.81	5.9	2.7	2.5	H	319	0.7570	59	130	**FD 07**	150	1328	—	900	342	0.8116	75	165	•	•	
11	15	**BN 160MR**	**4**	1440	73	646	22.4	87.6	87.8	86	0.81	6	2.7	2.5	G	360	0.8543	70	154	**FD 07**	150	1328	—	850	382	0.9065	86	190	•	•	
11	15	**BN 160M**	**4**	1450	72.4	641.2	22.5	88	88.5	87.5	0.81	6.1	2.5	2.3	G	479	1.137	73	161	**FD 07**	150	1328	—	800	501	1.188	89	196	•	•	
15	20	**BN 160L**	**4**	1460	98	867	30	88.7	88.5	88.4	0.81	6	2.3	2.1	G	650	1.542	99	218	**FD 08**	200	1770	—	750	725	1.720	129	284	•	•	
18.5	25	**BN 180M**	**4**	1460	121	1071	37	89.3	89.5	89.2	0.81	6.2	2.6	2.5	H	790	1.875	115	254	**FD 08**	250	2213	—	700	865	2.053	145	320	•	•	
22	30	**BN 180L**	**4**	1460	144	1275	44	89.9	90	90	0.80	6.4	2.5	2.5	G	1250	2.966	135	298	**FD 09**	300	2655	—	400	1450	3.441	175	386	•	•	
30	40	**BN 200L**	**4**	1460	196	1735	59	91.4	91.7	91	0.80	7.1	2.7	2.8	J	1650	3.916	157	346	**FD 09**	400	3540	—	300	1850	4.390	197	434	•	•	



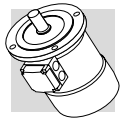
6P	1000 min^{-1} - S1	50 Hz



																			d.c. brake FD								Standard	CUS variant	CCC variant
P_n			n	M_n		In 400V	η%			cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + CCC
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.09	0.12	**BN 63A 6**	880	0.98	8.7	0.6	41	41	32.9	0.53	2.1	2.1	1.8	J	3.4	0.0081	4.6	10	**FD 02**	3.5	31	9000	14000	4	0.0095	6.3	14	•	•	•
0.12	0.16	**BN 63B 6**	870	1.32	11.7	0.64	45	44	41.8	0.6	2.1	1.9	1.7	G	3.7	0.0088	4.9	11	**FD 02**	3.5	31	9000	14000	4.3	0.0102	6.6	15	•	•	
0.18	0.25	**BN 71A 6**	900	1.91	16.9	0.68	55	55.5	51	0.69	2.6	1.9	1.7	F	8.4	0.0199	5.5	12	**FD 03**	5	44	8100	13500	9.5	0.0225	8.2	18	•	•	
0.25	0.33	**BN 71B 6**	900	2.7	23.9	0.82	62	58.5	51.4	0.71	2.6	1.9	1.7	D	10.9	0.0259	6.7	15	**FD 03**	5	44	7800	13000	12	0.0285	9.4	21	•	•	
0.37	0.5	**BN 71C 6**	910	3.9	34.5	1.17	66	60	53.3	0.69	3	2.4	2	E	12.9	0.0306	7.7	17	**FD 53**	7.5	66	5100	9500	14	0.0332	10.4	23	•	•	
0.37	0.5	**BN 80A 6**	910	3.9	34.5	1.15	68	67.4	63.3	0.68	3.2	2.2	2	F	21	0.0498	9.9	22	**FD 04**	10	89	5200	8500	23	0.0546	13.8	30	•	•	
0.55	0.75	**BN 80B 6**	920	5.7	50	1.67	70	69.8	64.3	0.68	3.9	2.6	2.2	G	25	0.0593	11.3	25	**FD 04**	15	133	4800	7200	27	0.0641	15.2	34	•	•	
0.75	1	**BN 80C 6**	920	7.8	69	2.38	70	70	64.4	0.65	3.8	2.5	2.2	G	28	0.0664	12.2	27	**FD 04**	15	133	3400	6400	30	0.0712	16.1	35	•	•	
0.75	1	**BN 90S 6**	920	7.8	69	2.27	70	69	64.2	0.68	3.8	2.4	2.2	G	26	0.0617	12.6	28	**FD 14**	15	133	3400	6500	28	0.0664	16.8	37	•	•	
1.1	1.5	**BN 90L 6**	920	11.4	101	3.2	72.9	72.6	69.1	0.69	3.9	2.3	2	G	33	0.0783	15	33	**FD 05**	26	230	2700	5000	37	0.0878	21	46	•	•	
1.5	2	**BN 100LA 6**	940	15.2	135	4	75.2	74.2	70.3	0.72	4.1	2.1	2	G	82	0.1946	22	49	**FD 15**	40	354	1900	4100	86	0.2041	28	62	•	•	
1.85	2.5	**BN 100LB 6**	930	19	168	4.8	76.6	72.8	62.6	0.73	4.6	2.1	2	G	95	0.2254	24	53	**FD 15**	40	354	1700	3600	99	0.2349	30	66	•	•	
2.2	3	**BN 112M 6**	940	22	195	5.5	78.5	79	76.5	0.73	4.8	2.2	2	H	168	0.3987	32	71	**FD 06S**	60	531	—	2100	177	0.4200	42	93	•	•	
3	4	**BN 132S 6**	940	30	266	7.1	79.7	77	75.1	0.76	5.1	1.9	1.8	G	216	0.5126	36	79	**FD 56**	75	664	—	1400	226	0.5363	49	108	•	•	
4	5.5	**BN 132MA 6**	950	40	354	9.2	81.4	81.5	79.5	0.77	5.5	2	1.8	H	295	0.7000	45	99	**FD 06**	100	885	—	1200	305	0.7238	58	128	•	•	
5.5	7.5	**BN 132MB 6**	945	56	496	12.2	83.1	80.9	79.1	0.78	6.1	2.1	1.9	H	383	0.9089	56	123	**FD 07**	150	1328	—	1050	406	0.9635	72	159	•	•	
7.5	10	**BN 160M 6**	955	75	664	15.7	85	85	84.8	0.81	5.9	2.2	2	H	740	1.7560	83	183	**FD 08**	170	1505	—	900	815	1.9340	112	247	•	•	
11	15	**BN 160L 6**	960	109	965	22.7	86.4	86.5	85.9	0.81	6.6	2.5	2.3	H	970	2.3018	103	227	**FD 08**	200	1770	—	800	1045	2.4798	133	293	•	•	
15	20	**BN 180L 6**	970	148	1310	30	87.7	88	87.3	0.82	6.2	2	2.4	H	1550	3.6782	130	287	**FD 09**	300	2655	—	600	1750	4.1528	170	375	•	•	
18.5	25	**BN 200LA 6**	960	184	1629	37	88.6	88	87.3	0.81	5.9	2	2.3	G	1700	4.0342	145	320	**FD 09**	400	3540	—	450	1900	4.5088	185	408	•	•	

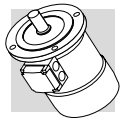
2P	3600 min^{-1} - S1	60 Hz

P_n kW	P_n hp		n min^{-1}	M_n Nm	M_n lb·in	In 460V A	η% 100%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	d.c. brake FD Mod	M_b Nm	M_b lb·in	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	Standard CE	CUS variant CE + UL
0.18	0.25	**BN 63A 2**	3360	0.53	4.7	0.55	58	0.74	3.7	2.9	2.4	H	2.0	0.0048	3.5	7.7	**FD 02**	1.75	15	2700	3300	2.6	0.0062	5.2	11	•	•
0.25	0.33	**BN 63B 2**	3370	0.70	6.2	0.69	61	0.73	4.2	2.9	2.9	H	2.3	0.0055	3.9	8.6	**FD 02**	1.75	15	2700	3300	3.0	0.0071	5.6	12	•	•
0.37	0.5	**BN 63C 2**	3430	1.03	9.1	0.88	70	0.75	5.5	3.3	3.2	J	3.3	0.0078	5.1	11	**FD 02**	3.50	30	2500	3000	3.9	0.0093	6.8	15	•	•
0.37	0.5	**BN 71A 2**	3420	1.04	9.2	0.86	71	0.77	5.8	3.3	3.1	J	3.5	0.0082	5.4	12	**FD 03**	3.50	30	2400	3200	4.6	0.0109	8.1	18	•	•
0.55	0.75	**BN 71B 2**	3450	1.55	13.7	1.23	76	0.75	6.2	3.4	3.4	K	4.1	0.0097	6.2	14	**FD 03**	5	44	2200	2700	5.3	0.0126	8.9	20	•	•
0.75	1	**BN 71C 2**	3440	2.08	18.4	1.62	77	0.75	6.2	3.8	3.5	K	5.0	0.0119	7.3	16	**FD 03**	5	44	1500	2100	6.1	0.0145	10	22	•	•
0.75	1	**BN 80A 2**	3440	2.1	18.3	1.62	76	0.76	5.9	3.1	2.8	J	7.8	0.0185	8.6	19	**FD 04**	5	44	1400	1700	9.4	0.0223	12.5	28	•	•
1.1	1.5	**BN 80B 2**	3430	3.1	27.6	2.4	77	0.76	6.2	3.8	2.9	J	9.0	0.0214	9.5	21	**FD 04**	10	88	1200	1600	10.6	0.0252	13.4	30	•	•
1.5	2	**BN 80C 2**	3415	4.2	37.2	2.9	81	0.79	6.8	3	2.9	J	11.4	0.0271	11.3	25	**FD 04**	15	133	1000	1300	13.0	0.0308	15.2	34	•	•
1.5	2	**BN 90SA 2**	3480	4.1	36.2	3.04	79	0.78	7.3	3.6	3.2	K	12.5	0.0297	12.2	27	**FD 14**	15	133	750	1000	14.1	0.0335	16.5	36	•	•
1.85	2.5	**BN 90SB 2**	3500	5.0	44.3	3.63	80	0.79	8.5	4.2	3.8	L	16.7	0.0397	14.1	31	**FD 14**	15	133	750	1000	18.3	0.0434	18.2	40	•	•
2.2	3	**BN 90L 2**	3490	6.1	54	4.4	81	0.79	7.3	3.8	3.3	K	16.7	0.0397	14.1	31	**FD 05**	26	230	750	1000	21.0	0.0498	20	44	•	•
3	4	**BN 100L 2**	3470	8.3	73.5	5.9	79	0.81	7.6	3.7	4	L	31.0	0.0736	20	44	**FD 15**	40	354	452	611	35.0	0.0831	26	57	•	•
3.7	5	**BN 100LB 2**	3490	10.2	90	6.7	84	0.83	6.7	2.9	3.3	J	39.0	0.0926	23	51	**FD 15**	40	354	360	500	43.0	0.102	29	64		•
4	5.4	**BN 100LB 2**	3460	11.0	97.4	7.4	83	0.82	7.9	4	3.6	K	39.0	0.0926	23	51	**FD 15**	40	354	360	500	43.0	0.102	29	64	•	
3.7	5	**BN 112M 2**	3540	10.0	88.5	6.7	86.6	0.80	10.4	4.1	4	M	57.0	0.135	28	62	**FD 06S**	40	354	280	450	66.0	0.157	39	86		•
4	5.4	**BN 112M 2**	3530	10.8	95.6	7.2	85.7	0.83	9.7	3.8	3.7	M	57.0	0.135	28	62	**FD 06S**	40	354	280	450	66.0	0.157	39	86	•	
5.5	7.5	**BN 132SA 2**	3490	15.3	135	9.8	83	0.86	6.4	2.7	2.6	H	101.0	0.240	35	77	**FD 06**	50	440	—	400	112	0.266	48	106	•	•
7.5	10	**BN 132SB 2**	3490	20.5	181	13	82	0.88	6.2	2.8	2.7	H	134.0	0.318	42	93	**FD 06**	50	440	—	350	145	0.344	55	121	•	•
9.2	11	**BN 132M 2**	3530	24.9	220.4	15.5	87	0.86	7.7	3	2.9	K	178.0	0.422	53	117	**FD 56**	75	664	—	280	189	0.449	66	146	•	•
11	15	**BN 160MR 2**	3510	30.6	271	18.3	87	0.88	6.9	2.7	2.9	H	210.0	0.499	65	143										•	•
15	20	**BN 160MB 2**	3510	40.6	359	24.2	86	0.9	6	2.5	2.8	G	340.0	0.808	84	185										•	•
18.5	25	**BN 160L 2**	3520	50.7	449	29.2	88	0.91	6.9	2.8	2.7	H	420.0	0.998	97	214										•	•
22	30	**BN 180M 2**	3520	60.7	537	35.1	88	0.91	6.9	2.8	2.8	H	490.0	1.164	109	240										•	•
30	40	**BN 200LA 2**	3530	80.9	716	46.2	89	0.91	6.9	2.6	3.5	H	770.0	1.829	140	309										•	•



BN-IE1

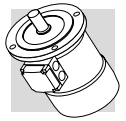
4P	1800 min^{-1} - S1	60 Hz



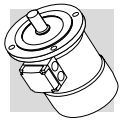
P_n kW	P_n hp		n min^{-1}	M_n Nm	M_n lb·in	In 460V A	η% 100%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	Mod	M_b Nm	M_b lb·in	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm^2	J_m x 10^{-4} lb·ft^2	IM B5 Kg	IM B5 lbs	CE	CE + UL
																	d.c. brake									Standard	CUS variant
																	FD										
0.06	0.08	**BN 56A 4**	1670	0.34	3	0.26	53	0.55	2.9	3.1	2.5	J	1.5	0.0036	3.1	6.8										•	•
0.09	0.12	**BN 56B 4**	1670	0.51	4.5	0.37	59	0.52	2.8	2.9	3	H	1.5	0.0036	3.1	6.8										•	•
0.12	0.16	**BN 63A 4**	1650	0.69	6.1	0.43	55	0.64	3.1	2.4	2.2	H	2.0	0.0048	3.5	7.7	**FD 02**	1.75	15	7000	9000	2.6	0.0062	5.2	11	•	•
0.18	0.25	**BN 63B 4**	1670	1.06	9.4	0.68	58	0.59	3.1	2.8	2.4	H	2.3	0.0055	3.9	8.6	**FD 02**	3.5	30	7000	9000	3.0	0.0071	5.6	12	•	•
0.25	0.33	**BN 63C 4**	1640	1.5	13.3	0.77	64	0.65	3.3	2.5	2.4	G	3.3	0.0078	5.1	11.2	**FD 02**	3.5	30	6000	8000	3.9	0.0093	6.8	15	•	•
0.25	0.33	**BN 71A 4**	1700	1.38	12.2	0.65	64	0.74	4.3	2.6	2.1	H	5.8	0.0138	5.1	11	**FD 03**	3.5	30	6000	8500	6.9	0.0164	7.8	18	•	•
0.37	0.5	**BN 71B 4**	1700	2.1	18.5	0.97	66	0.73	4.5	2.6	2.4	H	6.9	0.0164	5.9	13	**FD 03**	5	44	4800	7500	8.0	0.019	8.6	19	•	•
0.55	0.75	**BN 71C 4**	1710	3.1	27.4	1.37	72	0.70	4.9	3	2.8	J	9.1	0.0216	7.3	16	**FD 53**	7.5	66	3400	7000	10.2	0.0242	10	22	•	•
0.55	0.75	**BN 80A 4**	1710	3.1	27.6	1.28	73	0.75	4.9	3	2.4	H	15.0	0.0356	8.2	18.1	**FD 04**	10	89	3400	7000	16.6	0.0394	12.2	27	•	•
0.75	1	**BN 80B 4**	1720	4.1	36.6	1.6	78	0.75	6.2	3.4	3.1	J	20.0	0.0482	10	22	**FD 04**	15	133	3000	6000	22.0	0.0523	13.6	30	•	•
1.1	1.5	**BN 80C 4**	1720	6.1	54.0	2.35	78	0.76	6.5	3.4	3	J	25.0	0.0593	11.3	25	**FD 04**	15	133	2000	4200	27.0	0.0641	15.2	34	•	•
1.1	1.5	**BN 90S 4**	1720	6.2	55	2.43	78	0.74	5.7	3.1	2.7	J	21.0	0.0499	12.2	27	**FD 14**	15	133	3000	7000	23.0	0.0546	16.3	36	•	•
1.5	2	**BN 90LA 4**	1720	8.2	73	3.12	81	0.74	6.6	3.3	3	K	28.0	0.0665	13.6	30	**FD 05**	26	230	2200	4700	32.0	0.0760	19.5	43	•	•
1.85	2.5	**BN 90LB 4**	1720	10.3	91.2	3.8	80	0.76	6.4	3.7	3.2	J	30.0	0.0712	15.1	33	**FD05**	26	230	1800	3800	34.0	0.0807	21.1	47	•	•
2.2	3	**BN 100LA 4**	1720	12.4	110	4.8	81	0.73	5.5	2.7	2.4	H	40.0	0.096	18	40	**FD 15**	40	354	1000	2700	44.0	0.105	25	55	•	•
3	4	**BN 100LB 4**	1720	16.7	147.8	6.2	82.6	0.74	5.6	2.3	2.2	H	54.0	0.128	22	49	**FD 15**	40	354	600	2300	58.0	0.138	28	62	•	•
3.7	5	**BN 100LC 4**	1730	20.6	182	7.5	84	0.74	5.6	2.8	2.9	K	61.0	0.145	25	55	**FD 55**	55	480	—	1200	65.0	0.154	30	66		•
4	5.4	**BN 100LC 4**	1710	22.3	197.4	7.9	84	0.76	5.3	2.6	2.7	H	61.0	0.145	25	55	**FD 55**	55	480	—	1200	65.0	0.154	30	66	•	
3.7	5	**BN 112M 4**	1740	20.3	179.7	7.3	83.5	0.76	7.7	3.5	3.3	K	98.0	0.233	30	66	**FD 06S**	55	480	—	850	107.0	0.254	40	88		•
4	5.5	**BN 112M 4**	1730	22.6	200	8	85	0.76	7	3.1	3	K	98.0	0.233	30	66	**FD 06S**	60	530	—	850	107.0	0.254	40	88	•	
5.5	7.5	**BN 132S 4**	1730	30.8	273	10	84	0.84	6.3	2.9	2.6	H	213.0	0.506	44	97	**FD 56**	75	664	—	850	223.0	0.53	57	126	•	•
7.5	10	**BN 132MA 4**	1740	40.9	362	13.1	85	0.84	6.1	2.9	2.9	H	270.0	0.641	53	117	**FD 06**	100	885	—	700	280.0	0.665	66	146	•	•
9.2	12.5	**BN 132MB 4**	1750	50.2	444.3	16.5	87	0.81	6.8	2.7	2.5	H	319.0	0.757	59	130	**FD 07**	150	1328	—	728	342.0	0.812	75	165	•	•
11	15	**BN 160MR 4**	1740	61.4	543	19.4	88	0.81	6.5	3.1	3	H	360.0	0.855	70	154	**FD 07**	150	1328	—	600	382.0	0.907	86	190	•	•
11	15	**BN 160M 4**	1760	59.7	528.1	18.9	89	0.82	6.1	2.5	2.7	G	479.0	1.367	73	161	**FD 08**	150	1328	—	434	501.0	1.188	89	196	•	•
15	20	**BN 160L 4**	1750	81.3	720	24.8	90	0.84	5.8	2.3	2.5	G	650.0	1.544	99	218	**FD 08**	200	1770	—	400	725.0	1.720	129	284	•	•
18.5	25	**BN 180M 4**	1760	101.1	895	31.3	90	0.83	5.8	2.5	3	G	790.0	1.876	115	254	**FD 08**	250	2210	—	300	865.0	2.054	145	320	•	•
22	30	**BN 180L 4**	1760	119.4	1056.8	39	91	0.79	5.8	2.2	2.7	K	1250.0	2.966	135	298	**FD 09**	300	2655	—	103	1450.0	3.441	175	386	•	•
30	40	**BN 200L 4**	1760	162.8	1440.9	52	91	0.80	6.5	2.7	2.8	H	1650.0	3.916	157	346	**FD 09**	400	3540	—	74	1850.0	4.390	197	434	•	•

6P	1200 min^{-1} - S1	60 Hz

																	d.c. brake FD									Standard	CUS variant
P_n			n	M_n		In 460V	η%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.09	0.12	**BN 63A 6**	1100	0.78	6.9	0.48	47	0.5	2.8	2.9	2.9	K	3.4	0.0081	4.6	10.1	**FD 02**	3.5	30	7000	10000	4.0	0.0095	6.3	14	•	•
0.12	0.16	**BN 63B 6**	1100	1.04	9.2	0.55	50	0.55	2.4	2.4	2.7	H	3.7	0.0088	4.9	10.8	**FD 02**	3.5	30	7000	10000	4.3	0.0102	6.6	15	•	•
0.18	0.25	**BN 71A 6**	1100	1.62	14.3	0.57	61	0.65	3.3	2.6	2.8	G	8.4	0.0200	5.5	12.1	**FD 03**	5	44	6500	10000	9.5	0.0226	8.2	18	•	•
0.25	0.33	**BN 71B 6**	1100	2.1	18.9	0.75	64	0.65	3.2	2.6	2.7	G	10.9	0.0259	6.7	14.8	**FD 03**	5	44	6200	8000	12.0	0.0285	9.5	21	•	•
0.37	0.5	**BN 71C 6**	1100	3.2	28.3	1.08	66	0.65	3.3	2.6	2.4	G	12.9	0.0306	7.7	17	**FD 53**	7.5	66	4000	7000	14.0	0.0332	10.4	23	•	•
0.37	0.5	**BN 80A 6**	1130	3.2	27.9	1.07	67	0.65	3.9	2.6	2.8	H	21.0	0.0499	10	22	**FD 04**	10	88	4100	5500	23.0	0.0546	13.6	30	•	•
0.55	0.75	**BN 80B 6**	1140	4.7	41.4	1.38	76	0.66	4.9	3.2	3.4	J	25.0	0.0594	11.3	25	**FD 04**	15	133	3800	5000	27.0	0.0641	15.4	34	•	•
0.75	1	**BN 80C 6**	1140	6.3	55.8	2.1	72	0.62	4.8	3.2	3.3	J	28.0	0.0664	12.2	27	**FD 04**	15	133	2700	5000	30.0	0.0712	16.1	35	•	•
0.75	1	**BN 90S 6**	1140	6.2	55	2.05	73	0.63	4.5	2.9	3.1	J	26.0	0.0618	12.6	28	**FD 14**	15	133	2700	4000	28.0	0.0665	16.8	37	•	•
1.1	1.5	**BN 90L 6**	1140	9.4	83	2.83	75	0.65	4.3	2.8	2.9	H	33.0	0.0784	15	33	**FD 05**	26	230	2000	3500	37.0	0.0879	21	46	•	•
1.5	2	**BN 100LA 6**	1140	12.5	111	3.75	76	0.66	4.5	2.4	2.8	H	82.0	0.195	22	49	**FD 15**	40	354	1500	3000	86.0	0.204	28	62	•	•
1.85	2.5	**BN 100LB 6**	1150	15.4	136.3	4.3	77	0.70	5.5	2.3	2.5	J	95.0	0.225	24	53	**FD 15**	40	354	1300	2800	99.0	0.235	30	66	•	•
2.2	3	**BN 112M 6**	1150	18.5	164	4.9	81	0.69	5.5	2.8	2.9	J	168.0	0.400	32	71	**FD 06S**	60	530	—	1250	177.0	0.420	42	93	•	•
3.0	4	**BN 132S 6**	1150	24.9	220.4	6.3	78	0.77	5.9	2.1	2.3	J	216.0	0.513	36	79	**FD 56**	75	664	—	1100	226.0	0.536	49	108	•	•
3.7	5	**BN 132MA 6**	1150	31.0	274	7.3	80	0.79	6.1	2.5	3.1	J	295.0	0.701	45	99	**FD 06**	100	885	—	900	305.0	0.724	58	128		•
4.0	5.5	**BN 132MA 6**	1160	32.9	291.2	8.3	82	0.74	5.4	2.4	2.9	G	295.0	0.701	45	99	**FD 06**	100	885	—	900	308.0	0.724	58	128	•	
5.5	7.5	**BN 132MB 6**	1140	46.8	414	11.2	82	0.75	5.4	2.7	2.9	H	383.0	0.910	56	123	**FD 07**	150	1328	—	800	406.0	0.964	72	159	•	•
7.5	10	**BN 160M 6**	1160	61.4	543	13.5	85	0.82	5.8	2.3	2.8	G	740.0	1.758	83	183	**FD 08**	170	1500	—	550	815.0	1.936	112	247	•	•
11.0	15	**BN 160L 6**	1160	92.1	815	19.8	84	0.83	5.8	2.5	2.9	G	970.0	2.304	103	227	**FD 08**	200	1770	—	400	1045.0	2.482	133	293	•	•
15.0	20	**BN 180L 6**	1150	124.6	1102.4	28.3	86	0.77	6.2	2.6	2.8	H	1550.0	3.678	130	287	**FD 09**	300	2655	—	360	1750.0	4.153	170	375	•	•
18.5	25	**BN 200LA 6**	1150	153.6	1359.6	32.3	89	0.81	5.9	2.5	2.8	G	1700.0	4.034	145	320	**FD 09**	400	3540	—	340	1900.0	4.509	185	408	•	•



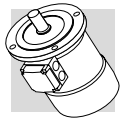
2P	3000 min^{-1} - S1	50 Hz



																		d.c. brake FD								Standard	CUS variant	CCC variant
P_n			n	M_n		In 400V	η%			cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + CCC
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.18	0.25	**M 05A 2**	2730	0.63	5.6	0.56	59.9	56.9	51.9	0.77	3.00	2.10	2.00	F	2.0	0.0047	3.2	7.1	**FD 02**	1.75	15	3900	4800	2.6	0.0062	4.9	11	•	•	
0.25	0.33	**M 05B 2**	2740	0.87	7.7	0.72	66.0	64.8	64.8	0.76	3.30	2.30	2.30	D	2.3	0.0055	3.6	7.9	**FD 02**	1.75	15	3900	4800	3	0.0071	5.3	12	•	•	
0.37	0.5	**M 05C 2**	2800	1.26	11.2	0.99	69.1	66.8	66.8	0.78	3.90	2.60	2.60	A	3.3	0.0078	4.8	11	**FD 02**	3.5	31	3600	4500	3.9	0.0093	6.5	14	•	•	
0.55	0.75	**M 1SD 2**	2820	1.86	16.5	1.37	76.0	75.8	74.8	0.76	5.00	2.90	2.80	A	4.1	0.0097	5.8	13	**FD 03**	5	44	2900	4200	5.3	0.0126	8.5	19	•	•	
0.75	1	**M 1LA 2**	2810	2.6	23	1.86	76.6	76.2	76.2	0.76	5.10	3.10	2.80	J	5	0.0119	6.9	15	**FD 03**	5	44	1900	3300	6.1	0.0145	9.6	21	•	•	
1.1	1.5	**M 2SA 2**	2800	3.8	33.6	2.57	76.4	76.2	75.0	0.81	4.80	2.80	2.40	H	9	0.0214	8.8	19	**FD 04**	10	89	1500	3000	10.6	0.0252	12.7	26	•	•	
1.5	2	**M 2SB 2**	2800	5.1	45	3.4	79.1	79.5	77.2	0.81	4.90	2.70	2.40	F	11.4	0.0271	10.6	23	**FD 04**	15	133	1300	2600	13	0.0308	14.5	22	•	•	
2.2	3	**M 3SA 2**	2880	7.3	65	4.8	82.7	82.1	81.0	0.8	6.30	2.90	2.70	K	24	0.0570	15.5	34	**FD 15**	26	230	1100	2400	28	0.0664	22	49	•	•	
3	4	**M 3LA 2**	2860	10	89	6.7	81.5	81.3	77.4	0.79	5.60	2.60	2.20	J	31	0.0736	18.7	41	**FD 15**	26	230	700	1600	35	0.0831	25	55	•	•	
4	5.5	**M 3LB 2**	2870	13.3	118	8.7	83.1	83.0	77.8	0.8	5.80	2.70	2.50	A	39	0.0925	22	49	**FD 15**	40	354	450	900	43	0.1020	28	62	•	•	
5.5	7.5	**M 4SA 2**	2890	18.2	161	11.2	84.7	84.5	81.2	0.84	5.90	2.60	2.20	H	101	0.2397	33	73	**FD 06**	50	443	—	600	112	0.2658	46	101	•	•	
7.5	10	**M 4SB 2**	2900	25	221	14.7	86.5	86.3	84.4	0.85	6.40	2.60	2.20	J	134	0.3180	40	88	**FD 06**	50	443	—	550	145	0.3441	53	117	•	•	
9.2	12.5	**M 4LA 2**	2930	30	266	17.7	87.0	86.5	83.6	0.86	6.70	2.80	2.30	J	178	0.4224	51	112	**FD 56**	75	664	—	430	189	0.4485	64	141	•	•	
11	15	**M 4LC 2**	2920	36	319	20.6	87.6	87.0	86.0	0.88	6.90	2.90	2.50	J	210	0.4983	60	132										•	•	
15	20	**M 5SB 2**	2930	49	434	28.1	89.6	89.4	88.0	0.86	7.10	2.60	2.30	J	340	0.8068	70	154										•	•	
18.5	25	**M 5SC 2**	2930	60	531	34	90.4	90.1	89.0	0.86	7.60	2.70	2.30	K	420	0.9967	83	183										•	•	
22	30	**M 5LA 2**	2930	72	637	40	89.9	89.7	89.5	0.88	7.80	2.60	2.40	K	490	1.1628	95	209										•	•	

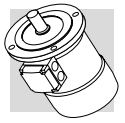
4P	1500 min^{-1} - S1	50 Hz

																		d.c. brake FD									Standard	CUS variant	CCC variant
P_n			n	M_n		In 400V	η%			cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + CCC
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.09	0.12	**M 0B**	**4**	1350	0.64	5.7	0.42	51.7	47.6	42.9	0.6	2.6	2.5	2.4	H	1.5	0.0036	2.9	6.4										•	•	•
0.12	0.16	**M 05A**	**4**	1350	0.85	7.5	0.47	59.8	56.2	47	0.62	2.6	1.9	1.8	E	2	0.0047	3.2	7.1	**FD 02**	1.75	15	10000	13000	2.6	0.0062	4.9	11	•	•	
0.18	0.25	**M 05B**	**4**	1320	1.3	11.5	0.71	54.8	52.9	52.5	0.67	2.6	2.2	2	A	2.3	0.0055	3.6	7.9	**FD 02**	3.5	31	10000	13000	3	0.0071	5.3	12	•	•	
0.25	0.33	**M 05C**	**4**	1340	1.78	15.8	0.8	65.3	65	57.9	0.69	2.7	2.1	1.9	E	3.3	0.0078	4.8	11	**FD 02**	3.5	31	7800	10000	3.9	0.0093	6.5	14	•	•	
0.37	0.5	**M 1SD**	**4**	1370	2.6	23	1.05	66.8	66.7	63	0.76	3.7	2	1.9	D	6.9	0.0164	5.5	12	**FD 03**	5	44	6000	9400	8	0.0190	8.2	18	•	•	
0.55	0.75	**M 1LA**	**4**	1380	3.8	33.6	1.55	69	68.9	68.8	0.74	4.1	2.3	2.3	G	9.1	0.0216	6.9	15	**FD 53**	7.5	66	4300	8700	10.2	0.0242	9.6	21	•	•	
0.75	1	**M 2SA**	**4**	1400	5.1	45	1.85	75	74.5	69.3	0.78	4.9	2.7	2.5	A	20	0.0475	9.2	20	**FD 04**	15	133	4100	7800	22	0.0522	13.1	29	•	•	
1.1	1.5	**M 2SB**	**4**	1400	7.5	66	2.66	76.4	76.2	70.4	0.78	5.1	2.8	2.5	G	25	0.0593	10.6	23	**FD 04**	15	133	2600	5300	27	0.0641	14.5	32	•	•	
1.5	2	**M 3SA**	**4**	1410	10.2	90	3.5	79.6	80.5	79.3	0.77	4.6	2.1	2.1	D	34	0.0807	15.5	34	**FD 15**	26	230	2800	4900	38	0.0902	22	49	•	•	
2.2	3	**M 3LA**	**4**	1410	14.9	132	5.2	81.1	81.4	79.9	0.75	4.5	2.2	2	A	40	0.0949	17	37	**FD 15**	40	354	2600	4700	44	0.1044	24	53	•	•	
3	4	**M 3LB**	**4**	1410	20	177	6.8	82.6	83.8	83.7	0.77	5	2.3	2.2	G	54	0.1281	21	46	**FD 15**	40	354	2400	4400	58	0.1376	27	60	•	•	
4	5.5	**M 3LC**	**4**	1400	27	239	9	82.7	83.1	80.5	0.78	4.7	2.3	2.2	F	61	0.1448	23	51	**FD 55**	55	487	—	1300	65	0.1542	29	64	•	•	
5.5	7.5	**M 4SA**	**4**	1440	36	319	11.6	84.7	84.8	82.5	0.81	5.5	2.3	2.2	A	213	0.5055	42	93	**FD 56**	75	664	—	1050	223	0.5292	55	121	•	•	
7.5	10	**M 4LA**	**4**	1440	50	443	15.5	86	86.3	85.3	0.81	5.7	2.5	2.4	G	270	0.6407	51	112	**FD 06**	100	885	—	950	280	0.6645	64	141	•	•	
9.2	12.5	**M 4LB**	**4**	1440	61	540	18.8	88.4	88.6	87.5	0.81	5.9	2.7	2.5	G	319	0.7570	57	126	**FD 07**	150	1328	—	900	342	0.8116	73	161	•	•	
11	15	**M 4LC**	**4**	1440	73	646	22.4	87.6	87.8	86	0.81	6	2.7	2.5	G	360	0.8543	65	143	**FD 07**	150	1328	—	850	382	0.9065	81	179	•	•	
15	20	**M 5SB**	**4**	1460	98	867	30.1	88.7	88.5	88.4	0.81	6	2.3	2.1	G	650	1.5425	85	187	**FD 08**	200	1770	—	750	725	1.7205	115	254	•	•	
18.5	25	**M 5LA**	**4**	1460	121	1071	37	89.3	89.5	89.2	0.81	6.2	2.6	2.5	H	790	1.8747	101	223	**FD 08**	250	2213	—	700	865	2.0527	131	289	•	•	



M-IE1

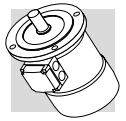
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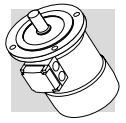
																			d.c. brake FD								Standard	CUS variant	CCC variant
P_n			n	M_n		In 400V	η%			cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL	CE + CCC
kW	hp		min^{-1}	Nm	lb·in	A	100%	75%	50%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs			
0.09	0.12	**M 05A 6**	880	0.98	8.7	0.6	41	41	32.9	0.53	2.1	2.1	1.8	J	3.4	0.0081	4.3	9.5	**FD 02**	3.5	31	9000	14000	4	0.0095	6	13	•	•	•
0.12	0.16	**M 05B 6**	870	1.32	11.7	0.64	45	44	41.8	0.6	2.1	1.9	1.7	F	3.7	0.0088	4.6	10	**FD 02**	3.5	31	9000	14000	4.3	0.0102	6.3	14	•	•	
0.18	0.25	**M 1SC 6**	900	1.91	16.9	0.68	55	55.5	51	0.69	2.6	1.9	1.7	A	8.4	0.0199	5.1	11	**FD 03**	5	44	8100	13500	9.5	0.0225	7.8	17	•	•	
0.25	0.33	**M 1SD 6**	900	2.7	23.9	0.82	62	58.5	51.4	0.71	2.6	1.9	1.7	D	10.9	0.0259	6.3	14	**FD 03**	5	44	7800	13000	12	0.0285	9	20	•	•	
0.37	0.5	**M 1LA 6**	910	3.9	34.5	1.17	66	60	53.3	0.69	3	2.4	2	B	12.9	0.0306	7.3	16	**FD 53**	7.5	66	5100	9500	14	0.0332	10	22	•	•	
0.55	0.75	**M 2SA 6**	920	5.7	50	1.67	70	69.8	64.3	0.68	3.9	2.6	2.2	G	25	0.0593	10.6	23	**FD 04**	15	133	4800	7200	27	0.0641	14.5	32	•	•	
0.75	1	**M 2SB 6**	920	7.8	69	2.38	70	70	64.4	0.65	3.8	2.5	2.2	A	28	0.0664	11.5	25	**FD 04**	15	133	3400	6400	30	0.0712	15.4	34	•	•	
1.1	1.5	**M 3SA 6**	920	11.4	101	2.9	75	74	72	0.72	4.3	2	1.8	G	62	0.1470	17	37	**FD 15**	26	230	2700	5000	66	0.1571	23	51	•	•	
1.5	2	**M 3LA 6**	940	15.2	135	4	75.2	74.2	70.3	0.72	4.1	2.1	2	D	82	0.1946	21	46	**FD 15**	40	354	1900	4100	86	0.2041	27	60	•	•	
1.85	2.5	**M 3LB 6**	930	19	168	4.8	76.6	72.8	62.6	0.73	4.6	2.1	2	A	95	0.2254	23	51	**FD 15**	40	354	1700	3600	99	0.2349	29	64	•	•	
2.2	3	**M 3LC 6**	930	23	204	5.8	77.7	76.8	72.4	0.71	4.7	2.3	2.1	G	95	0.2254	23	51	**FD 55**	55	487	—	1900	99	0.2349	29	64	•	•	
3	4	**M 4SA 6**	940	30	266	7.1	79.7	77	75.1	0.76	5.1	1.9	1.8	G	216	0.5126	34	75	**FD 56**	75	664	—	1400	226	0.5363	47	104	•	•	
4	5.5	**M 4LA 6**	950	40	354	9.2	81.4	81.5	79.5	0.77	5.5	2	1.8	A	295	0.7000	43	95	**FD 06**	100	885	—	1200	305	0.7238	56	123	•	•	
5.5	7.5	**M 4LB 6**	945	56	496	12.2	83.1	80.9	79.1	0.78	6.1	2.1	1.9	H	383	0.9089	54	119	**FD 07**	150	1328	—	1050	406	0.9635	70	154	•	•	
7.5	10	**M 5SA 6**	955	75	664	15.7	85	85	84.8	0.81	5.9	2.2	2	H	740	1.7560	69	152	**FD 08**	170	1505	—	900	815	1.9340	98	216	•	•	
11	15	**M 5SB 6**	960	109	965	22.7	86.4	86.5	85.9	0.81	6.6	2.5	2.3	H	970	2.3018	89	196	**FD 08**	200	1770	—	800	1045	2.4798	119	262	•	•	

2P	3600 min^{-1} - S1	60 Hz

																	d.c. brake FD								Standard	CUS variant
P_n			n	M_n		In 460V	η%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.18	0.25	**M 05A 2**	3380	0.53	4.7	0.53	58	0.74	4.1	3	2.4	H	2.0	0.0048	3.2	7.1	**FD 02**	1.75	15	2700	3300	2.6	0.0062	4.9	11	•	•
0.25	0.33	**M 05B 2**	3370	0.70	6.2	0.69	61	0.73	4.9	3.2	2.9	K	2.3	0.0055	3.6	7.9	**FD 02**	1.75	15	2700	3300	3.0	0.0071	5.3	12	•	•
0.37	0.5	**M 05C 2**	3430	1.04	9.2	0.88	69	0.76	5.5	3.3	3.2	J	3.3	0.0078	4.8	10.6	**FD 02**	3.5	30	2500	3000	3.9	0.0093	6.5	14	•	•
0.55	0.75	**M 1SD 2**	3450	1.55	13.7	1.23	76	0.75	6.2	3.4	3.4	K	4.1	0.0097	5.8	12.8	**FD 03**	5	44	2200	2700	5.3	0.0126	8.5	19	•	•
0.75	1	**M 1LA 2**	3440	2.07	18.3	1.62	77	0.75	6.2	3.8	3.5	K	5.0	0.0119	6.9	15.2	**FD 03**	5	44	1500	2100	6.1	0.0145	9.5	21	•	•
1.1	1.5	**M 2SA 2**	3430	3.12	27.6	2.4	77	0.76	6.2	3.8	2.9	J	9.0	0.0214	8.8	19.4	**FD 04**	10	88	1200	1600	10.6	0.0252	12.7	28	•	•
1.5	2	**M 2SB 2**	3415	4.16	36.8	2.9	80	0.79	6	3.3	2.9	H	11.4	0.0271	10.4	23	**FD 04**	15	133	1000	1300	13.0	0.0309	14.5	32	•	•
2.2	3	**M 3SA 2**	3430	6.21	55	4.2	81	0.83	6	2.4	3.2	H	24.0	0.0570	15.4	34	**FD 15**	26	230	800	1000	28.0	0.0665	22	49	•	•
3	4	**M 3LA 2**	3470	8.3	73.5	5.9	79	0.81	7.6	3.7	4	K	31.0	0.0736	18.7	34	**FD 15**	40	354	450	600	35.0	0.0831	25	55	•	•
3.7	5	**M 3LB 2**	3490	10.4	92	6.7	84	0.83	6.7	2.9	3.2	J	39.0	0.0926	22	49	**FD 15**	40	354	360	500	43.0	0.102	28	62		•
4	5.4	**M 3LB 2**	3460	11.0	97.4	7.4	83	0.82	7.9	4	3.6	K	39.0	0.0926	22	49	**FD15**	40	354	360	500	43.0	0.102	28	62	•	
5.5	7.5	**M 4SA 2**	3490	15.3	135	9.8	83	0.86	6.4	2.7	2.6	H	101	0.2400	33	72	**FD 06**	50	440	—	400	112.0	0.266	46	101	•	•
7.5	10	**M 4SB 2**	3490	20.5	181	13	82	0.88	6.2	2.8	2.7	H	134	0.318	40	88	**FD 06**	50	440	—	350	145.0	0.344	53	117	•	•
9.2	12.5	**M 4LA 2**	3530	24.9	220	15.5	87	0.86	7.7	3	2.9	K	178	0.422	51	112	**FD 56**	75	664	—	280	189.0	0.449	64	141	•	•
11	15	**M 4LC 2**	3510	30.6	271	18.3	87	0.88	6.9	2.7	2.9	H	210	0.499	60	132										•	•
15	20	**M 5SB 2**	3510	40.6	359	24.2	86	0.9	6	2.5	2.8	G	340	0.808	70	154										•	•
18.5	25	**M 5SC 2**	3520	50.7	449	29.2	88	0.91	6.9	2.8	2.7	H	420	0.998	83	183										•	•
22	30	**M 5LA 2**	3520	60.7	537	35.1	88	0.91	6.9	2.8	2.8	H	490	1.164	95	209										•	•



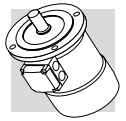
4P	1800 min^{-1} - S1	60 Hz



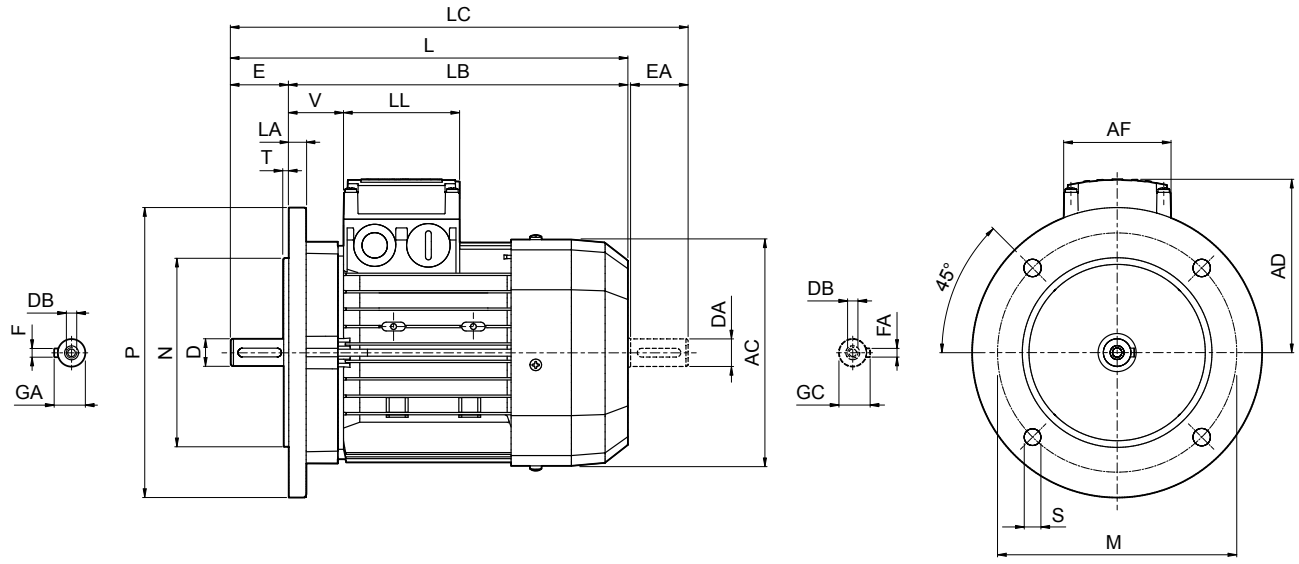
																	d.c. brake FD								Standard	CUS variant
P_n			n	M_n		I_n 460V	η%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0.09	0.12	**M 0B 4**	1670	0.51	4.5	0.37	59	0.52	2.8	2.9	3	H	1.5	0.0036	2.9	6.4										•	•
0.12	0.16	**M 05A 4**	1690	0.68	6	0.43	60	0.57	3.1	2.4	2.3	H	2.0	0.0048	3.2	7.1	**FD 02**	1.75	15	7000	9000	2.6	0.0062	4.9	11	•	•
0.18	0.25	**M 05B 4**	1670	1.06	9.4	0.65	58	0.6	3.2	2.8	2.4	H	2.3	0.0055	3.6	7.9	**FD 02**	3.5	30	7000	9000	3.0	0.0071	5.3	12	•	•
0.25	0.33	**M 05C 4**	1670	1.40	12.4	0.77	64	0.65	3.3	2.5	2.4	G	3.3	0.0078	4.8	10.6	**FD 02**	3.5	30	6000	8000	3.9	0.0093	6.5	14	•	•
0.37	0.5	**M 1SD 4**	1700	2.09	18.5	0.96	66	0.73	4.5	2.6	2.4	H	6.9	0.0164	5.5	12.1	**FD 03**	5.0	44	4800	7500	8.0	0.019	8.2	18	•	•
0.55	0.75	**M 1LA 4**	1710	3.12	27.6	1.37	72	0.7	4.9	3	2.8	J	9.1	0.0216	6.9	15.2	**FD 53**	7.5	66	3400	7000	10.2	0.0242	9.5	21	•	•
0.75	1	**M 2SA 4**	1720	4.14	36.6	1.61	78	0.75	6.2	3.4	3.1	J	20.0	0.0475	9.1	20	**FD 04**	15	133	3000	6000	22.0	0.0523	13.2	29	•	•
1.1	1.5	**M 2SB 4**	1720	6.21	55	2.33	78	0.76	6.3	3.4	3	J	25	0.0594	10.4	23	**FD 04**	15	133	2000	4200	27.0	0.0641	14.5	32	•	•
1.5	2	**M 3SA 4**	1720	8.25	73	3.15	82	0.73	5.7	2.9	2.6	J	34.0	0.0808	15.4	34	**FD 15**	26	230	1500	3000	38.0	0.0903	22	49	•	•
2.2	3	**M 3LA 4**	1720	12.4	110	4.67	81	0.73	5.5	2.7	2.4	H	40.0	0.0960	16.8	37	**FD 15**	40	354	1000	2700	44.0	0.105	24	53	•	•
3	4	**M 3LB 4**	1720	16.7	147.8	6.2	82.6	0.74	5.6	2.3	2.2	H	54.0	0.128	21	46	**FD 15**	40	354	600	2300	58.0	0.138	27	60	•	•
3.7	5	**M 3LC 4**	1730	20.6	182	7.5	84	0.74	5.6	2.8	2.9	H	61.0	0.145	23	51	**FD 55**	55	480	—	1200	65.0	0.154	29	64		•
4	5.4	**M 3LC 4**	1710	22.3	197.4	7.9	84	0.76	5.4	2.7	2.8	H	61.0	0.145	23	51	**FD 55**	55	480	—	1200	65.0	0.154	29	64	•	
5.5	7.5	**M 4SA 4**	1730	30.8	273	9.8	84	0.84	6.3	2.9	2.6	H	213.0	0.506	42	93	**FD 56**	75	664	—	850	223.0	0.53	55	121	•	•
7.5	10	**M 4LA 4**	1740	40.9	362	13.2	85	0.84	6.1	2.9	2.9	H	270.0	0.641	51	112	**FD 06**	100	885	—	700	280.0	0.665	64	141	•	•
9.2	12.5	**M 4LB 4**	1750	50.2	444.3	16.5	87	0.81	6.8	2.7	2.5	H	319.0	0.757	57	126	**FD 07**	150	1328	—	728	342.0	0.812	73	161	•	•
11	15	**M 4LC 4**	1740	61.4	543	19.4	88	0.81	6.5	3.1	3	H	360.0	0.855	65	143	**FD 07**	150	1328	—	600	382.0	0.907	81	179	•	•
15	20	**M 5SB 4**	1750	81.4	720	24.9	90	0.84	5.8	2.3	2.5	G	650.0	1.544	85	187	**FD 08**	200	1770	—	400	725.0	1.7202	115	254	•	•
18.5	25	**M 5LA 4**	1760	101	895	31.1	90	0.83	5.8	2.5	3	G	790.0	1.876	101	223	**FD 08**	250	2210	—	300	865.0	2.054	131	289	•	•

6P	1200 min^{-1} - S1	60 Hz

																	d.c. brake FD								Standard	CUS variant
P_n			n	M_n		In 460V	η%	cosφ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA code	J_m x 10^{-4}		IM B5		Mod	M_b		Z_o 1/h		J_m x 10^{-4}		IM B5		CE	CE + UL
kW	hp		min^{-1}	Nm	lb·in	A	100%						kgm^2	lb·ft^2	Kg	lbs		Nm	lb·in	NB	SB	kgm^2	lb·ft^2	Kg	lbs		
0,09	0,12	**M 05A 6**	1100	0,78	6,9	0,52	47	0,46	2,4	2,9	2,3	K	3,4	0,0081	4,3	9,5	**FD 02**	3,5	30	7000	10000	4,0	0,0095	6	13	•	•
0,12	0,16	**M 05B 6**	1100	1,04	9,2	0,57	49	0,54	2,3	2,4	2,2	H	3,7	0,0088	4,6	10,1	**FD 02**	3,5	30	7000	10000	4,3	0,0102	6,3	14	•	•
0,18	0,25	**M 1SC 6**	1100	1,62	14,3	0,57	61	0,65	3,3	2,6	2	G	8,4	0,0200	5,1	11,2	**FD 03**	5	44	6500	10000	9,5	0,0226	7,8	17	•	•
0,25	0,33	**M 1SD 6**	1100	2,1	18,9	0,75	64	0,65	3,2	2,6	2,1	G	10,9	0,0259	6,3	13,9	**FD 03**	5	44	6200	8000	12,0	0,0290	9	20	•	•
0,37	0,5	**M 1LA 6**	1100	3,2	28,6	1,08	66	0,65	3,3	2,6	2,4	G	12,9	0,0306	7,3	16,1	**FD 53**	7,5	66	4000	7000	14,0	0,0330	10	22	•	•
0,55	0,75	**M 2SA 6**	1140	4,7	41,4	1,38	76	0,66	4,9	3,2	2,7	J	25,0	0,0594	10,4	23	**FD 04**	15	133	3800	5000	27,0	0,0641	14,5	32	•	•
0,75	1	**M 2SB 6**	1140	6,3	55	2,03	76	0,61	4,4	2,8	2,8	J	28,0	0,0665	11,3	25	**FD 04**	15	133	2700	5000	30,0	0,0713	15,4	34	•	•
1,1	1,5	**M 3SA 6**	1140	9,4	83	2,74	74	0,68	4,4	2,4	2,2	H	62	0,147	16,8	37	**FD 15**	26	230	2300	4500	66,2	0,157	23	51	•	•
1,5	2	**M 3LA 6**	1140	12,5	111	3,75	76	0,66	4,5	2,4	2,4	H	82,0	0,195	21	46	**FD 15**	40	354	1500	3000	86,0	0,204	27	60	•	•
1,85	2,5	**M3LB 6**	1150	15,4	136,0	4,3	77	0,70	5,5	2,3	2,5	J	95,0	0,226	23	51	**FD 15**	40	354	1300	2800	99,0	0,235	29	64	•	•
2,2	3	**M 3LC 6**	1140	18,8	166	5,3	77	0,68	5,1	2,6	2,6	J	95,0	0,226	23	51	**FD 55**	55	480	—	1500	99,0	0,235	29	64	•	•
3	4	**M 4SA 6**	1150	24,9	220,4	6,3	78	0,77	5,9	2,1	2,3	J	216,0	0,513	34	75	**FD 56**	75	664	—	1100	226,0	0,536	47	104	•	•
3,7	5	**M 4LA 6**	1150	31,0	274	7,3	80	0,79	6,1	2,5	2,3	J	295,0	0,701	43	95	**FD 06**	100	885	—	900	305,0	0,724	56	123		•
4	5,5	**M 4LA 6**	1160	32,9	291,2	8,3	82	0,74	5,4	2,4	2,9	G	295,0	0,701	43	95	**FD 06**	100	885	—	900	305,0	0,724	56	123	•	
5,5	7,5	**M 4LB 6**	1140	46,8	414	11,2	82	0,75	5,4	2,7	2,3	H	383,0	0,910	54	119	**FD 07**	150	1328	—	800	406,0	0,964	70	154	•	•
7,5	10	**M 5SA 6**	1160	61,4	543	13,5	85	0,82	5,8	2,3	2,4	G	740,0	1,758	69	152	**FD 08**	170	1500	—	550	815,0	1,936	98	216	•	•
11	15	**M 5SB 6**	1160	92,1	815	19,8	84	0,83	5,8	2,5	2,7	G	970,0	2,304	89	196	**FD 08**	200	1770	—	400	1045,0	2,482	119	262	•	•



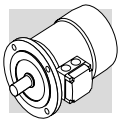
BN - IM B5



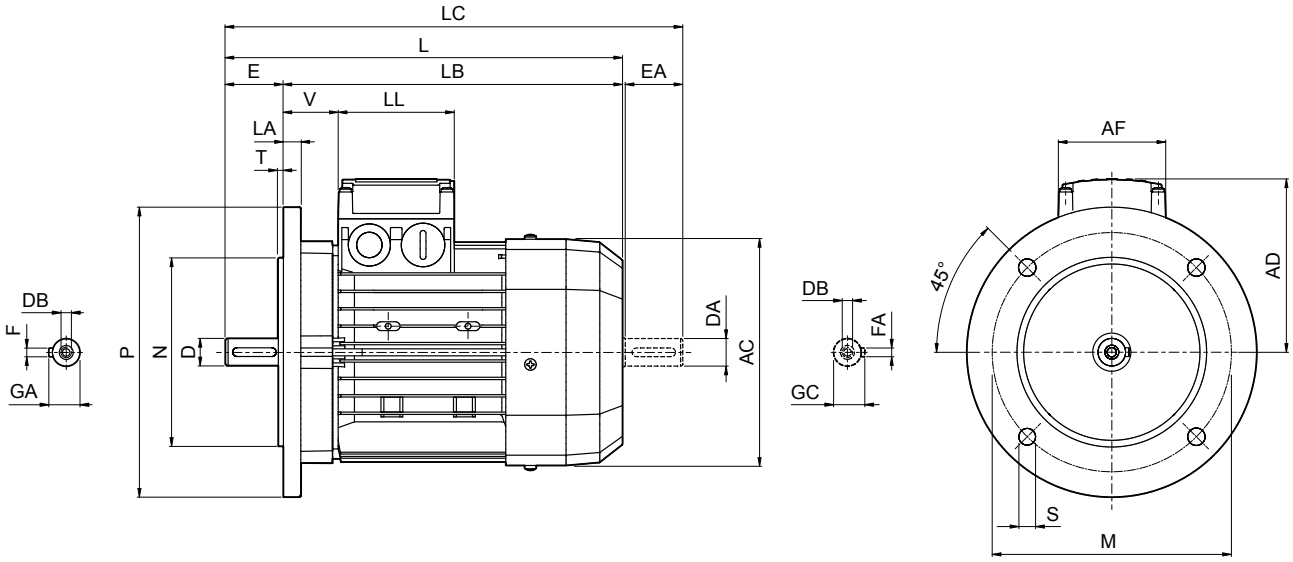
[mm]

	Shaft					Flange						Motor							
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V
BN 56	9	20	M3	10.2	3	100	80	120	7	3	8	110	185	165	207	91	74	80	34
BN 63	11	23	M4	12.5	4	115	95	140	9.5		10	121	207	184	232	95			26
BN 71	14	30	M5	16	5	130	110	160		3.5		138	249	219	281	108			37
BN 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	274	234	315	119			38
BN 90	24	50	M8	27	8							176	326	276	378	133	98	98	44
BN 100	28	60	M10	31		215	180	250	14	4	14	195	367	307	429	142			50
BN 112											15	219	385	325	448	157			52
BN 132	38	80	M12	41	10	265	230	300			20	258	493	413	576	193	118	118	58
BN 160 MR	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15		562	452	645				218
BN 160 M												310	596	486	680	245	187	187	51
BN 160 L																			
BN 180 M	48 38(1)	110 110(1)		51.5 41(1)	14 10(1)							310	640	530	724				
BN 180 L	48 42(1)		M16 M16(1)	51.5 45(1)	14 12(1)						18	348	708	598	823	261			52
BN 200 L	55 42(1)		M20 M16(1)	59 45(1)	16 12(1)	350	300	400					722	612	837				66

NOTE: 1) These values refer to the rear shaft end.



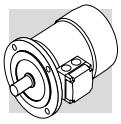
BN - IM B5



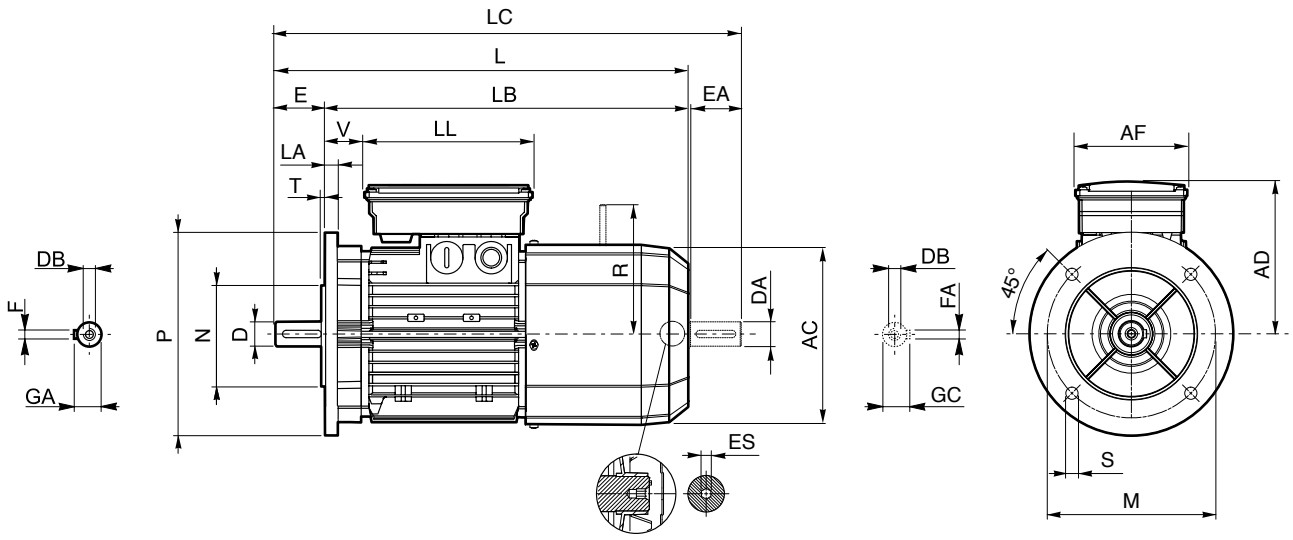
Dimensions are in Inch except when shown in *italic [mm]*

	Shaft					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BN 56	0.354	0.787	*M3*	0.402	0.118	3.937	3.150	4.724	0.276	0.118	0.315	4.331	7.283	6.496	8.150	3.583	2.913	3.150	1.339
BN 63	0.433	0.906	*M4*	0.492	0.157	4.528	3.740	5.512	0.374		0.394	4.764	8.150	7.244	9.134	3.740			1.024
BN 71	0.551	1.181	*M5*	0.630	0.197	5.118	4.331	6.299		0.138		5.433	9.803	8.622	11.063	4.252			1.457
BN 80	0.748	1.575	*M6*	0.846	0.236	6.496	5.118	7.874	0.453		0.453	6.142	10.787	9.213	12.402	4.685			1.496
BN 90	0.945	1.969	*M8*	1.063	0.315							6.929	12.835	10.866	14.882	5.236	3.858	3.858	1.732
BN 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843	0.551	0.157	0.551	7.677	14.449	12.087	16.890	5.591			1.969
BN 112											0.591	8.622	15.157	12.795	17.638	6.181			2.047
BN 132	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811			0.787	10.157	19.409	16.260	22.677	7.598	4.646	4.646	2.283
BN 160 MR	1.654 1.496(1)	4.331 3.150(1)	*M16 M12(1)*	1.772 1.614(1)	0.472 0.395(1)	11.811	9.843	13.780	0.728	0.197	0.591		22.126	17.795	25.394				8.583
BN 160 M												12.205	23.465	19.134	26.772	9.646	7.362	7.362	2.008
BN 160 L																			
BN 180 M	1.890 1.496(1)	4.331 4.331(1)	*M16 M12(1)*	2.028 1.614(1)	0.551 0.394(1)							12.205	25.197	20.866	28.504				
BN 180 L	1.890 1.654(1)		*M16 M16(1)*	2.018 1.772(1)	0.551 0.472(1)						0.709	13.701	27.874	23.543	32.402	10.276			2.047
BN 200 L	2.165 1.654(1)		*M20 M16(1)*	2.323 1.772(1)	0.630 0.472(1)	13.780	11.811	15.748					28.425	24.094	32.953				2.598

NOTE: 1) These values refer to the rear shaft end.



BN - IM B5 - FD

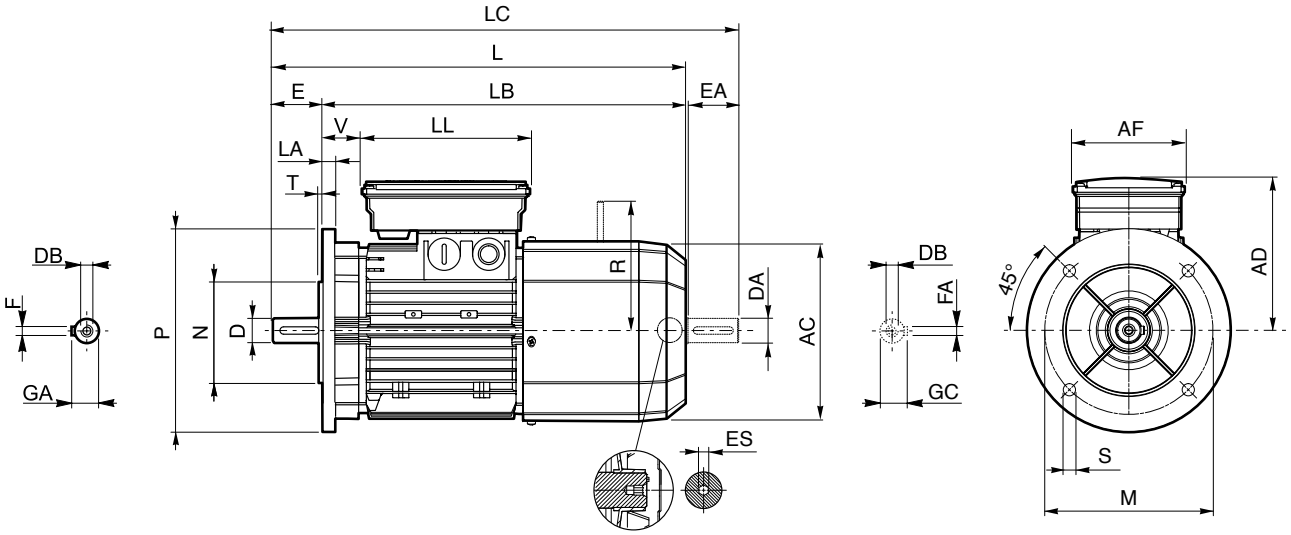


	Shaft					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
BN 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	122	98	133	14	96	5
BN 71	14	30	M5	16	5	130	110	160	9.5	3.5		138	310	280	342	135			25	103	
BN 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	346	306	388	146			41	129	
BN 90 S	24	50	M8	27	8							176	409	359	461	149	110	165	39		6
BN 90 L																146				160	
BN 100	28	60	M10	31		215	180	250	14	4	14	195	458	398	521	158		165	62		
BN 112											15	219	484	424	547	173		165	73	199	
BN 132	38	80	M12	41	10	265	230	300			20	258	603	523	686	210	140	188	46	204(2)	
BN 160 MR	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15		672	562	755				161	226	
BN 160 M												310	736	626	820	245	187	187	51	266	—
BN 160 L	42 38(1)																				
BN 180 M	48 38(1)			51.5 41(1)	14 10(1)								780	670	864						
BN 180 L	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	866	756	981	261			52	305	
BN 200 L	55 42(1)		M20 M16(1)	59 45(1)	16 12(1)	350	300	400	18.5				878	768	993				64		

NOTE:
1) These values refer to the rear shaft end.
2) For FD07 brake value R=226.

ES hexagon is not supplied with PS option.

BN - IM B5 - FD

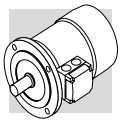


Dimensions are in Inch except when shown in *italic [mm]*

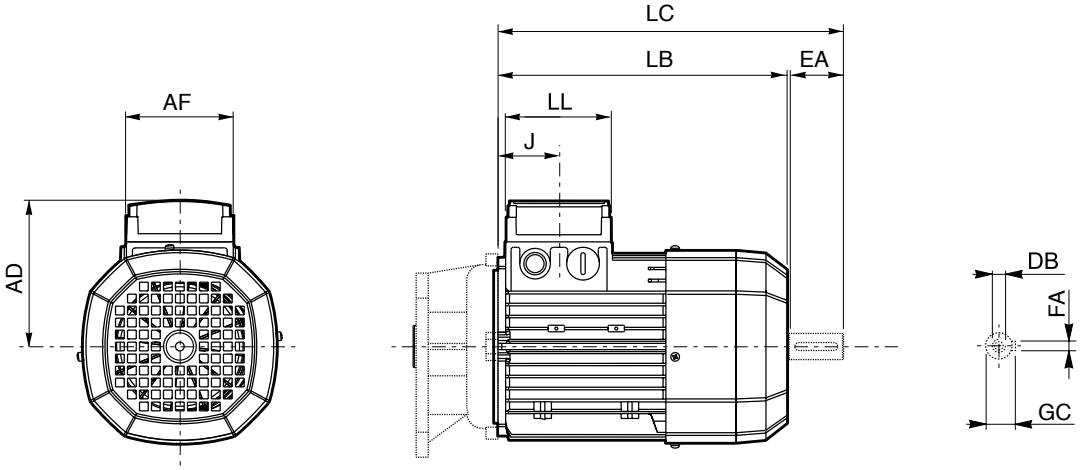
	Shaft					Flange						Motor									
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**	**R**	**ES**
BN 63	0.433	0.906	*M4*	0.492	0.157	4.528	3.740	5.512	0.374	0.118	0.394	4.764	10.709	9.803	11.693	4.803	3.858	5.236	0.551	3.780	0.197
BN 71	0.551	1.181	*M5*	0.630	0.197	5.118	4.331	6.299	0.374	0.138		5.433	12.205	11.024	13.465	5.315			0.984	4.055	
BN 80	0.748	1.575	*M6*	0.846	0.236	6.496	5.118	7.874	0.453		0.453	6.142	13.622	12.047	15.276	5.748			1.614	5.079	
BN 90 S	0.945	1.969	*M8*	1.063	0.315							6.929	16.102	14.134	18.150	5.866	4.331	6.496	1.535		0.236
BN 90 L																5.748				6.299	
BN 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843	0.551	0.157	0.551	7.677	18.031	15.669	20.512	6.220		6.496	2.441		
BN 112											0.591	8.622	19.055	16.693	21.535	6.811		6.496	2.874	7.835	
BN 132	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811			0.787	10.157	23.740	20.591	27.008	8.268	5.512	7.402	1.811	8.031[2]	
BN 160 MR	1.654 1.496[1]	4.331 3.150[1]	*M16* *M12*[1]	1.772 1.614[1]	0.472 0.394[1]	11.811	9.843	13.780	0.728	0.197	0.591		26.457	22.126	29.724				6.339	8.898	
BN 160 M												12.205	28.976	24.646	32.283	9.646	7.362	7.362	2.008	10.472	—
BN 160 L	1.654 1.496[1]	4.331 3.150[1]	*M16* *M12*[1]	1.772 1.614[1]	0.472 0.394[1]								30.709	26.378	34.016						
BN 180 M	1.890 1.496[1]			2.028 1.614[1]	0.551 0.394[1]																
BN 180 L	1.890 1.654[1]	4.331	*M16* *M16*[1]	2.028 1.772[1]	0.551 0.472[1]						0.709	13.701	34.094	29.764	38.622	10.276			2.047	12.008	
BN 200 L	2.165 1.654[1]	4.331[1]	*M20* *M16*[1]	2.323 1.772[1]	0.630 0.472[1]	13.780	11.811	15.748	0.728				34.567	30.236	39.094				2.520		

NOTE:
1) These values refer to the rear shaft end.
2) For FD07 brake value R=226.

ES hexagon is not supplied with PS option.



M

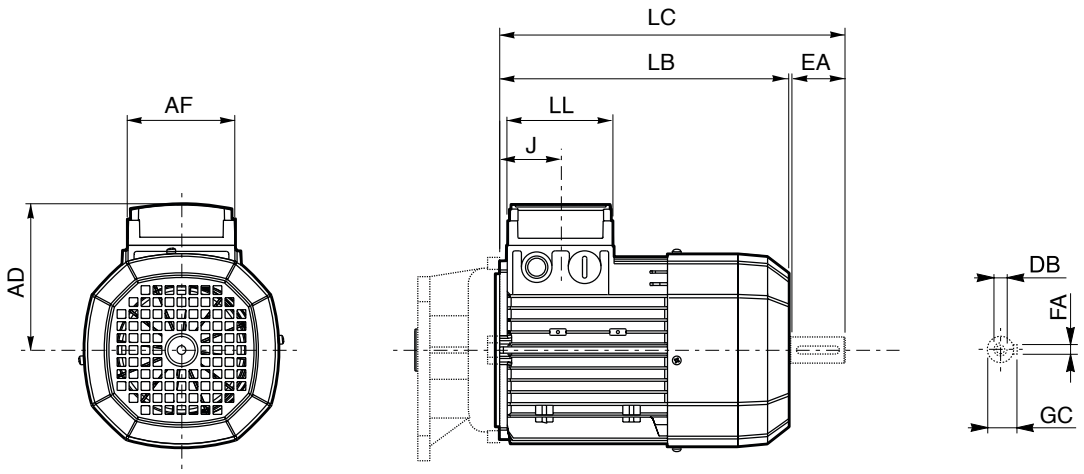


	Rear shaft end					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
M 0	9	20	M3	3	10.2	110	133	155	74	80	42	91
M 05	11	23	M4	4	12.5	121	165	191			48	95
M 1	14	30	M5	5	16	138	187	219			45	108
M 2 S	19	40	M6	6	21.5	156	202	245			44	119
M 3 S	28	60	M10	8	31	195	230	293	98	98	53.5	142
M 3 L							262	325				
M 4	38	80	M12	10	41	258	361	444	118	118	64.5	193
M 4 LC							396	479				
M 5 S						310	418	502	187	187	77	245
M 5 L							462	546				

M-IE1

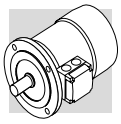
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M

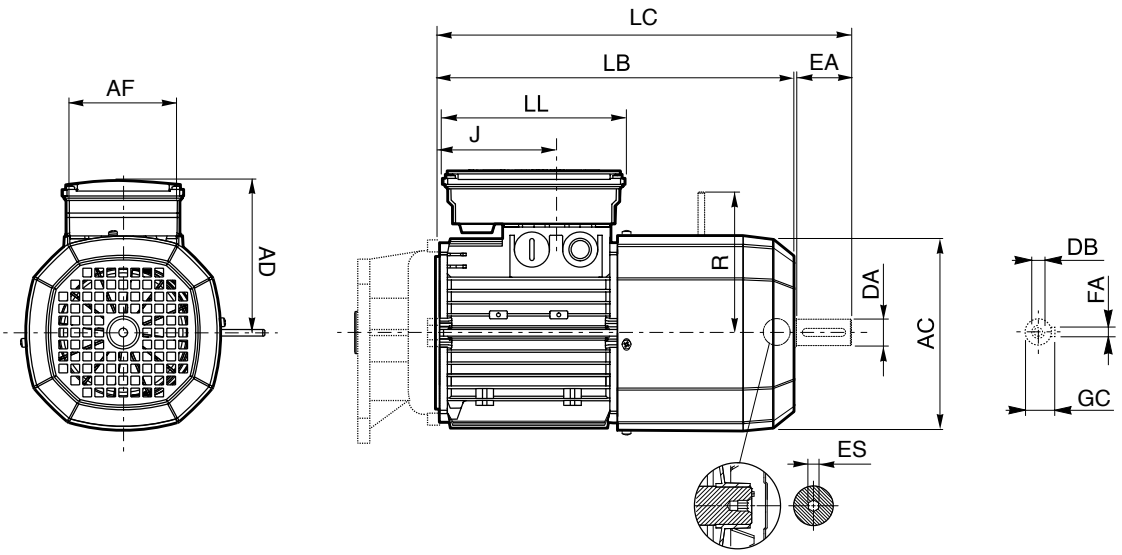


Dimensions are in Inch except when shown in *italic [mm]*

	Rear shaft end					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
M 0	0.354	0.787	*M3*	0.118	0.402	4.331	5.236	6.102	2.913	3.150	1.654	3.583
M 05	0.433	0.906	*M4*	0.157	0.492	4.764	6.496	7.520			1.890	3.740
M 1	0.551	1.181	*M5*	0.197	0.630	5.433	7.362	8.622			1.772	4.252
M 2 S	0.748	1.575	*M6*	0.236	0.846	6.142	7.953	9.646			1.732	4.685
M 3 S	1.102	2.362	*M10*	0.315	1.220	7.677	9.055	11.535	3.858	3.858	2.106	5.591
M 3 L							10.315	12.795				
M 4	1.496	3.150	*M12*	0.394	1.614	10.157	14.213	17.480	4.646	4.646	2.539	7.598
M 4 LC							15.591	18.858				
M 5 S						12.205	16.457	19.764	7.362	7.362	3.031	9.646
M 5 L							18.189	21.496				



M - FD



	Rear shaft end					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	11	23	M4	4	12.5	121	231	256	98	133	48	122	96	5
M 1	14	30	M5	5	16	138	248	280			73	135	103	
M 2 S	19	40	M6	6	21.5	156	272	314			88	146	129	
M 3 S	28	60	M10	8	31	195	326	389	110	165	124.5	158	160	6
M 3 L							353	416						
M 4	38	80	M12	10	41	258	470	553	140	188	185.5	210	204 (1)	
M 4 LC							495	578			64.5		226	
M 5 S						310	558	642	187	187	77	245	266	—
M 5 L							602	686						

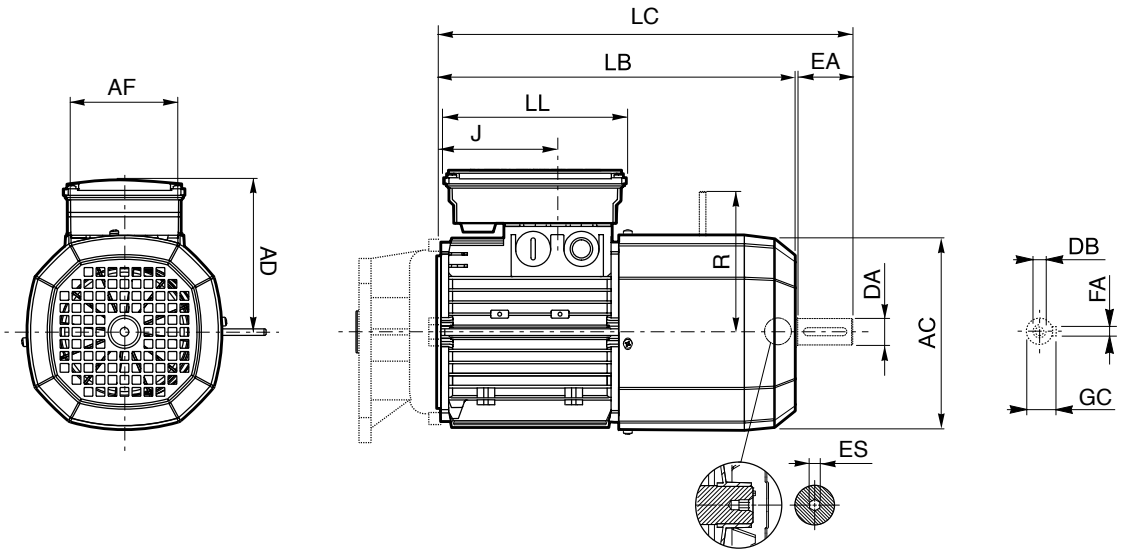
M-IE1

[mm]

NOTE:
1) For FD07 brake value R=226.

ES hexagon is not supplied with PS option.

M - FD



Dimensions are in Inch except when shown in *italic [mm]*

	Rear shaft end					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	0.433	0.906	*M4*	0.157	0.492	4.764	9.094	10.079	3.858	5.236	1.890	4.803	3.780	0.197
M 1	0.551	1.181	*M5*	0.197	0.630	5.433	9.764	11.024			2.874	5.315	4.055	
M 2 S	0.748	1.575	*M6*	0.236	0.846	6.142	10.709	12.362			3.465	5.748	5.079	
M 3 S	1.102	2.362	*M10*	0.315	1.220	7.677	12.835	15.315	4.331	6.496	4.902	6.220	6.299	0.236
M 3 L							13.898	16.378						
M 4	1.496	3.150	*M12*	0.394	1.614	10.157	18.504	21.772	5.512	7.402	7.303	8.268	8.031(1)	
M 4 LC							19.488	22.756			2.539		8.898	
M 5 S						12.205	21.969	25.276	7.362	7.362	3.031	9.646	10.472	—
M 5 L							23.701	27.008						

M-IE1

[inch]

NOTE:
1) For FD07 brake value R=226.

ES hexagon is not supplied with PS option.

INDEX OF REVISIONS

BR_CAT_CAF_NEM_ENG_R04_1	
	**Description**
	Minor modification on servoventilation variant section Added availability of BY electric motors Minor corrections on dimensions and rating charts Elimination of FA brakes due to phase out Updated motor normative section

2026 11 02

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Conversion table for commonly used metric – imperial units

Length

1 in	=	25.40 mm	= 0.0254 m
1 ft	=	304.8 mm	= 0.3048 m
1 yd	=	914.4 mm	= 0.9144 m

Area

1 in^2	=	645.16 mm^2	= 0.645×10^{-3} m^2
1 ft^2	=	92.9×10^3 mm^2	= 92.9×10^3 m^2
1 yd^2	=	836×10^3 mm^2	= 0.8361 m^2

Volume

1 in^3	=	16.4×10^{-3} dm^3	= 16.4×10^{-6} m^3
1 ft^3	=	28.32 dm^3	= 28.3×10^{-3} m^3

Force – Weight

1 lbm	=	2.2046 kg
1 lbf	=	4.4482 N

Torque

1 lb in	=	0.1129 Nm
1 lb ft	=	1.3558 Nm

Power

1 hp	=	0.7457 kW

Moment of inertia

1 lb ft^2	=	4.214×10^{-2}	kg m^2
1 lb in s^2 =		1.12985×10^{-1}	kg m^2
1 lb ft s^2 =		1.35582	kg m^2

Pressure – stress

1 lb/in^2	=	6.89×10^{-3}	N/mm^2
1 lb/ft^2	=	47.88	N/m^2

Temperature

t [°F]	=	$\frac{5}{9} \times [t - 32]$	[°C]
T [°C]	=	$\left(\frac{9}{5} \times T + 32\right)$	[°F]

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