

Inverter data according to EU regulation 2019/1781

Content of this document:

This document lists the data according to the European regulation EU 2019/1781 for the frequency inverter series

AXV (AxiaVert)

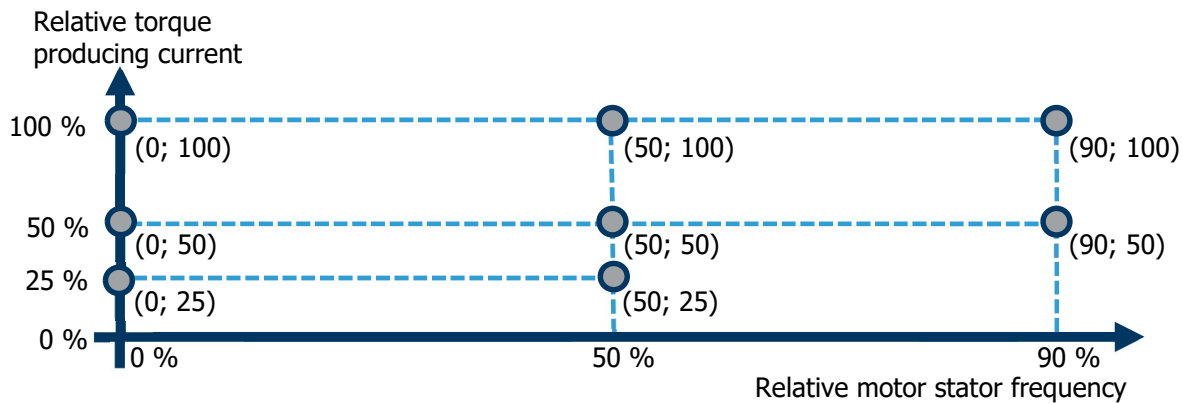
The reference numbers set in the regulation are shown also in this document as follows:

(1)	Power losses in % of the rated apparent output power at the following different operating points for relative motor stator frequency versus relative torque-producing current (0;25) (0;50) (0;100) (50;25) (50;50) (50;100) (90;50) (90;100)	
	Standby losses	
(2)	IE rating / Efficiency level	
(3)	Manufacturer's name, commercial registration number and address	
(4)	Product's model identifier	
(5)	Apparent output power [kVA]	<i>in standard environment conditions (including nominal environment temperature) according to the operating instructions</i>
(6)	Indicative motor rated power output [kW]	
(7)	Rated output current [A]	
(8)	Maximum operating temperature [°C] – <i>Note: Max. environment temperature; For temperature derating check the operating instructions</i>	
(9)	Rated supply frequency [Hz]	
(10)	Rated supply voltage [V] / <i>Mains voltage [V]</i>	

Table of Contents according to subseries, mains voltage, mounting version and frame sizes:

Series	Mains Voltage	Mounting Version	Frame Size(s)	Page
AXV2	3 ~ 230 V	A: Air Cooling	1,2,3,4	2
		C: ColdPlate	1,2,3,4	3
AXV4	3 ~ 400 V	A: Air Cooling	1,2,3,4	4
		C: ColdPlate	1,2,3,4	5

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(D)	Frame Size	f _{PWM} [kHz]	(1)										(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Device ¹⁾			Power losses Relative [%] ²⁾									P _{Loss Standby} [W]	IE rating	Manufacturer	Model ID	S _{rated} [kVA]	P _{rated} [kW]	I _{rated} [A]	Max. T [°C]	f _{supply} [Hz] ⁵⁾	V _{supply} [V] ⁶⁾
			(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)											
AXV20BDk251XA3C000	1	4	2.1	2.1	2.3	2.2	2.3	2.6	2.4	2.8	7	IE2	³⁾	⁴⁾	0.6	0.25	1.6	55	⁵⁾	230	
AXV20BDk371XA3C000	1	4	1.6	1.6	1.8	1.7	1.7	2.1	1.9	2.3	7	IE2	³⁾	⁴⁾	1.0	0.37	2.5	55	⁵⁾	230	
AXV20BDk551XA3C000	1	4	1.4	1.5	1.7	1.5	1.6	1.9	1.7	2.2	7	IE2	³⁾	⁴⁾	1.2	0.55	3.0	55	⁵⁾	230	
AXV20BDk751XA3C000	1	4	1.1	1.2	1.5	1.1	1.3	1.8	1.4	2.1	7	IE2	³⁾	⁴⁾	1.6	0.75	4.0	55	⁵⁾	230	
AXV20BD1k11XA3C000	1	4	0.9	1.1	1.4	1	1.2	1.7	1.4	2	7	IE2	³⁾	⁴⁾	2.2	1.1	5.4	55	⁵⁾	230	
AXV20BD1k52XA3C000	2	4	1.2	1.4	1.7	1.3	1.5	1.9	1.6	2.1	7	IE2	³⁾	⁴⁾	2.8	1.5	7.0	55	⁵⁾	230	
AXV20BD2k22XA3C000	2	4	1.1	1.3	1.7	1.2	1.4	1.9	1.5	2.1	7	IE2	³⁾	⁴⁾	3.8	2.2	9.5	55	⁵⁾	230	
AXV20BD3k02XA3C000	2	4	1.1	1.2	1.6	1.1	1.4	1.9	1.5	2.1	7	IE2	³⁾	⁴⁾	5.0	3	12.5	55	⁵⁾	230	
AXV20BD4k03XA3C000	3	4	0.9	1.1	1.4	1	1.2	1.6	1.3	1.9	7	IE2	³⁾	⁴⁾	7.2	4	18.0	55	⁵⁾	230	
AXV20BD5k53XA3C000	3	4	0.8	0.9	1.4	0.8	1	1.7	1.2	2	7	IE2	³⁾	⁴⁾	8.8	5.5	22.0	55	⁵⁾	230	
AXV20BD7k54XA3C000	4	4	0.8	0.9	1.4	0.8	1	1.7	1.2	2	7	IE2	³⁾	⁴⁾	12.7	7.5	32.0	55	⁵⁾	230	
AXV20BD9k24XA3C000	4	4	0.8	0.9	1.4	0.8	1	1.7	1.2	2.1	7	IE2	³⁾	⁴⁾	13.9	9.2	35.0	55	⁵⁾	230	

1) The table shows the type number of the typical variant of the series. The gray colored area of the type number can vary without changing efficiency data values.

2) Relative power losses relate to the Nominal Apparent power.

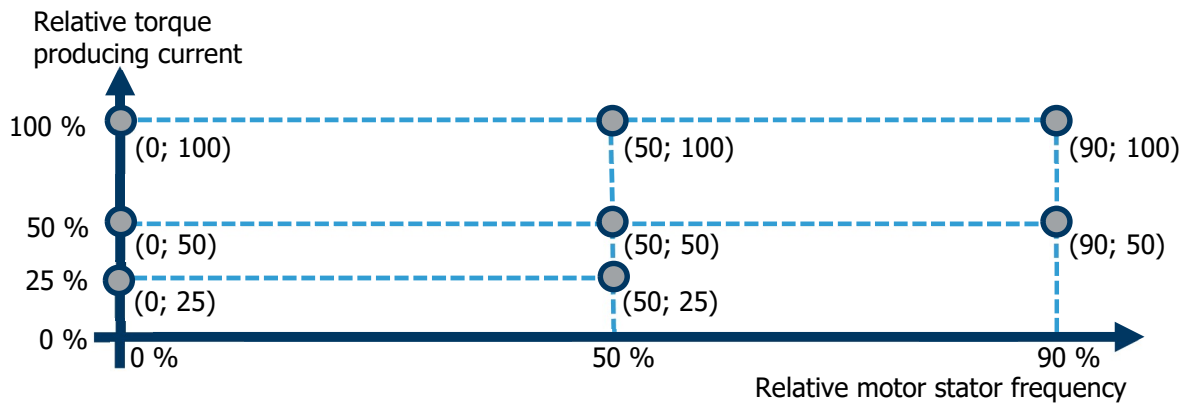
3) Manufacturer: Bonfiglioli Deutschland GmbH Europark Fichtenhain B6
Register Court Neuss, HRB 9981 D-47807 Krefeld

4) See column (D) Device

5) f_{supply} : 50/60 Hz (±10 %)

6) V_{supply} : 400: AC 3~320...480 (+10%) V 230: AC 3~184...240 V (+10 %)

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(D)	Frame Size	f _{PWM} [kHz]	(1)										(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Device ¹⁾			Power losses Relative [%] ²⁾									P _{Loss Standby} [W]	IE rating	Manufacturer	Model ID	S _{rated} [kVA]	P _{rated} [kW]	I _{rated} [A]	Max. T [°C]	f _{supply} [Hz] ⁵⁾	V _{supply} [V] ⁶⁾
			(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)											
AXV20BDk251XC3C000	1	4	2.1	2.1	2.3	2.2	2.3	2.6	2.4	2.8	7	IE2	³⁾	⁴⁾	0.6	0.25	1.6	55	⁵⁾	230	
AXV20BDk371XC3C000	1	4	1.6	1.6	1.8	1.7	1.7	2.1	1.9	2.3	7	IE2	³⁾	⁴⁾	1.0	0.37	2.5	55	⁵⁾	230	
AXV20BDk551XC3C000	1	4	1.4	1.5	1.7	1.5	1.6	1.9	1.7	2.2	7	IE2	³⁾	⁴⁾	1.2	0.55	3.0	55	⁵⁾	230	
AXV20BDk751XC3C000	1	4	1.1	1.2	1.5	1.1	1.3	1.8	1.4	2.1	7	IE2	³⁾	⁴⁾	1.6	0.75	4.0	55	⁵⁾	230	
AXV20BD1k11XC3C000	1	4	0.9	1.1	1.4	1	1.2	1.7	1.4	2	7	IE2	³⁾	⁴⁾	2.2	1.1	5.4	55	⁵⁾	230	
AXV20BD1k52XC3C000	2	4	0.9	1.1	1.4	1	1.2	1.6	1.3	1.8	7	IE2	³⁾	⁴⁾	2.8	1.5	7.0	55	⁵⁾	230	
AXV20BD2k22XC3C000	2	4	0.9	1	1.4	0.9	1.1	1.6	1.2	1.8	7	IE2	³⁾	⁴⁾	3.8	2.2	9.5	55	⁵⁾	230	
AXV20BD3k02XC3C000	2	4	0.8	0.9	1.3	0.9	1.1	1.6	1.2	1.8	7	IE2	³⁾	⁴⁾	5.0	3	12.5	55	⁵⁾	230	
AXV20BD4k03XC3C000	3	4	0.7	0.8	1.2	0.7	0.9	1.4	1	1.6	7	IE2	³⁾	⁴⁾	7.2	4	18.0	55	⁵⁾	230	
AXV20BD5k53XC3C000	3	4	0.5	0.7	1.2	0.6	0.8	1.4	0.9	1.7	7	IE2	³⁾	⁴⁾	8.8	5.5	22.0	55	⁵⁾	230	
AXV20BD7k54XC3C000	4	4	0.5	0.6	1.1	0.5	0.8	1.4	0.9	1.8	7	IE2	³⁾	⁴⁾	12.7	7.5	32.0	55	⁵⁾	230	
AXV20BD9k24XC3C000	4	4	0.5	0.6	1.1	0.5	0.8	1.4	0.9	1.8	7	IE2	³⁾	⁴⁾	13.9	9.2	35.0	55	⁵⁾	230	

1) The table shows the type number of the typical variant of the series. The gray colored area of the type number can vary without changing efficiency data values.

2) Relative power losses relate to the Nominal Apparent power.

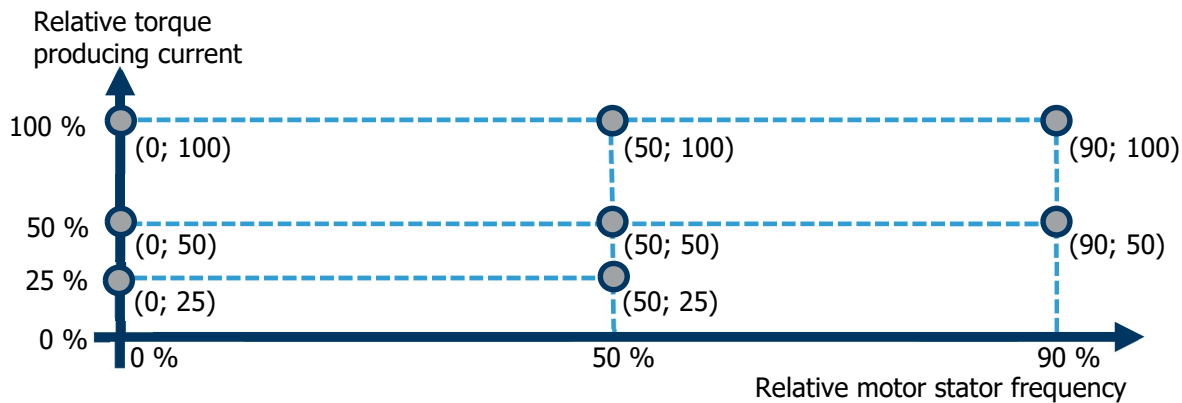
3) Manufacturer: Bonfiglioli Deutschland GmbH Europark Fichtenhain B6
Register Court Neuss, HRB 9981 D-47807 Krefeld

4) See column (D) Device

5) f_{supply} : 50/60 Hz (±10 %)

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(D)	Frame Size	f _{PWM} [kHz]	(1)										(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Device ¹⁾			Power losses Relative [%] ²⁾										P _{Loss Standby} [W]	IE rating	Manufacturer	Model ID	S _{rated} [kVA]	P _{rated} [kW]	I _{rated} [A]	Max. T [°C]	f _{supply} [Hz] ⁵⁾	V _{supply} [V] ⁶⁾
			(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)												
AXV40BDk251XA3C000	1	4	2.6	2.6	2.7	2.6	2.6	2.8	2.7	2.9	7	IE2	³⁾	⁴⁾	0.69	0.25	1.0	55	⁵⁾	400		
AXV40BDk371XA3C000	1	4	1.8	1.8	2.0	1.8	1.9	2.1	1.9	2.2	7	IE2	³⁾	⁴⁾	1.1	0.37	1.6	55	⁵⁾	400		
AXV40BDk551XA3C000	1	4	1.4	1.5	1.8	1.5	1.6	1.9	1.7	2.0	7	IE2	³⁾	⁴⁾	1.3	0.55	1.9	55	⁵⁾	400		
AXV40BDk751XA3C000	1	4	1.2	1.3	1.6	1.3	1.4	1.7	1.5	1.9	7	IE2	³⁾	⁴⁾	1.7	0.75	2.4	55	⁵⁾	400		
AXV40BD1k11XA3C000	1	4	1.0	1.1	1.4	1.1	1.2	1.5	1.3	1.7	7	IE2	³⁾	⁴⁾	2.2	1.1	3.2	55	⁵⁾	400		
AXV40BD1k51XA3C000	1	4	0.9	1.0	1.3	0.9	1.1	1.5	1.2	1.6	7	IE2	³⁾	⁴⁾	2.9	1.5	4.2	55	⁵⁾	400		
AXV40BD1k92XA3C000	2	4	0.9	1.0	1.2	0.9	1.1	1.3	1.1	1.5	7	IE2	³⁾	⁴⁾	3.5	1.85	5.1	55	⁵⁾	400		
AXV40BD2k22XA3C000	2	4	0.9	1.0	1.2	0.9	1.0	1.3	1.1	1.5	7	IE2	³⁾	⁴⁾	4.0	2.2	5.8	55	⁵⁾	400		
AXV40BD3k02XA3C000	2	4	0.8	0.9	1.2	0.9	1.0	1.3	1.1	1.4	7	IE2	³⁾	⁴⁾	5.4	3	7.8	55	⁵⁾	400		
AXV40BD4k02XA3C000	2	4	0.8	0.9	1.2	0.9	1.0	1.3	1.1	1.5	7	IE2	³⁾	⁴⁾	6.6	4	9.5	55	⁵⁾	400		
AXV40BD5k53XA3C000	3	4	0.7	0.8	1.2	0.8	0.9	1.3	1.0	1.5	7	IE2	³⁾	⁴⁾	9.7	5.5	14.0	55	⁵⁾	400		
AXV40BD7k53XA3C000	3	4	0.7	0.8	1.2	0.7	0.9	1.3	0.9	1.4	7	IE2	³⁾	⁴⁾	13.2	7.5	19.0	55	⁵⁾	400		
AXV40BD9k23XA3C000	3	4	0.6	0.8	1.1	0.7	0.8	1.3	0.9	1.5	7	IE2	³⁾	⁴⁾	15.9	9.2	23.0	55	⁵⁾	400		
AXV40BD11k4XA3C000	4	4	0.6	0.7	1.0	0.6	0.7	1.2	0.8	1.4	7	IE2	³⁾	⁴⁾	17.7	11	25.5	55	⁵⁾	400		
AXV40BD15k4XA3C000	4	4	0.6	0.7	1.0	0.6	0.7	1.2	0.8	1.4	7	IE2	³⁾	⁴⁾	22.5	15	32.5	55	⁵⁾	400		

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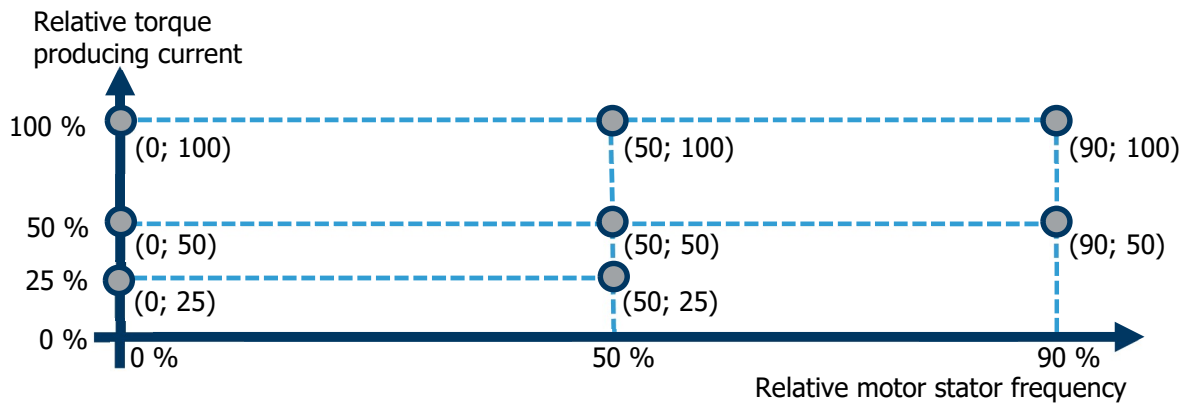
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Device ¹⁾			Power losses Relative [%] ²⁾										P _{Loss Standby} [W]	IE rating	Manufacturer	Model ID	S _{rated} [kVA]	P _{rated} [kW]	I _{rated} [A]	Max. T [°C]	f _{supply} [Hz] ⁵⁾	V _{supply} [V] ⁶⁾
			(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)												
AXV40BDk251XC3C000	1	4	2.6	2.6	2.7	2.6	2.6	2.8	2.7	2.9	7	IE2	³⁾	⁴⁾	0.69	0.25	1.0	55	⁵⁾	400		
AXV40BDk371XC3C000	1	4	1.8	1.8	2.0	1.8	1.9	2.1	1.9	2.2	7	IE2	³⁾	⁴⁾	1.1	0.37	1.6	55	⁵⁾	400		
AXV40BDk551XC3C000	1	4	1.4	1.5	1.8	1.5	1.6	1.9	1.7	2.0	7	IE2	³⁾	⁴⁾	1.3	0.55	1.9	55	⁵⁾	400		
AXV40BDk751XC3C000	1	4	1.2	1.3	1.6	1.3	1.4	1.7	1.5	1.9	7	IE2	³⁾	⁴⁾	1.7	0.75	2.4	55	⁵⁾	400		
AXV40BD1k11XC3C000	1	4	1.0	1.1	1.4	1.1	1.2	1.5	1.3	1.7	7	IE2	³⁾	⁴⁾	2.2	1.1	3.2	55	⁵⁾	400		
AXV40BD1k51XC3C000	1	4	0.9	1.0	1.3	0.9	1.1	1.5	1.2	1.6	7	IE2	³⁾	⁴⁾	2.9	1.5	4.2	55	⁵⁾	400		
AXV40BD1k92XC3C000	2	4	0.7	0.8	1.0	0.7	0.9	1.1	0.9	1.3	7	IE2	³⁾	⁴⁾	3.5	1.85	5.1	55	⁵⁾	400		
AXV40BD2k22XC3C000	2	4	0.7	0.8	1.0	0.7	0.8	1.1	0.9	1.3	7	IE2	³⁾	⁴⁾	4.0	2.2	5.8	55	⁵⁾	400		
AXV40BD3k02XC3C000	2	4	0.6	0.7	1.0	0.7	0.8	1.1	0.9	1.2	7	IE2	³⁾	⁴⁾	5.4	3	7.8	55	⁵⁾	400		
AXV40BD4k02XC3C000	2	4	0.6	0.7	1.0	0.7	0.8	1.1	0.9	1.3	7	IE2	³⁾	⁴⁾	6.6	4	9.5	55	⁵⁾	400		
AXV40BD5k53XC3C000	3	4	0.5	0.6	1.0	0.6	0.7	1.1	0.8	1.3	7	IE2	³⁾	⁴⁾	9.7	5.5	14.0	55	⁵⁾	400		
AXV40BD7k53XC3C000	3	4	0.5	0.6	1.0	0.5	0.7	1.1	0.7	1.2	7	IE2	³⁾	⁴⁾	13.2	7.5	19.0	55	⁵⁾	400		
AXV40BD9k23XC3C000	3	4	0.4	0.6	0.9	0.5	0.6	1.1	0.7	1.3	7	IE2	³⁾	⁴⁾	15.9	9.2	23.0	55	⁵⁾	400		
AXV40BD11k4XC3C000	4	4	0.4	0.5	0.8	0.4	0.6	1.0	0.6	1.2	7	IE2	³⁾	⁴⁾	17.7	11	25.5	55	⁵⁾	400		
AXV40BD15k4XC3C000	4	4	0.4	0.5	0.9	0.4	0.5	1.0	0.6	1.2	7	IE2	³⁾	⁴⁾	22.5	15	32.5	55	⁵⁾	400		

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