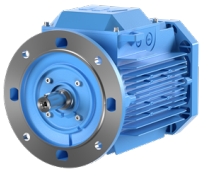
PRODUCT-DETAILS

3GAA112320-BDK

IE3 Premium Efficiency Aluminum Motors, 4 kW, 400 V (3GAA112320-BDK)



General Information

Product ID	3GAA112320-BDK
ABB Type Designation	M3AA 112MB 4
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 4 kW, 400 V (3GAA112320-BDK)

Ordering

ABB Type Designation	M3AA 112MB 4
Invoice Description	M3AA 112MB 4
Product Name	3-Phase squirrel cage motor
Product Type	3AA3__M3AA_IE3_AA
Country or Territory of Origin	China Finland
Customs Tariff Number	85015220
Stocked At (Warehouses)	Menden, Germany Sant Quirze del Vallés - BCN, Spain Vittuone, Italy
Medium Description	4kW, 4 Poles, Frame Size 112, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA112320-BDK)
Short Description	4kW, 4P, Frame Size 112, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

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Electrical

Electrical Data

Conn	Temp Class	Network Freq	Network Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	4.00 kW	1451 r/min	5.00 A	0.770	88.60 %	26.30 N·m	7.60
D	--	50 Hz	400 V	4.00 kW	1451 r/min	8.60 A	0.770	88.60 %	26.30 N·m	7.60
Y	--	50 Hz	660 V	4.00 kW	1445 r/min	5.00 A	0.780	88.60 %	26.50 N·m	6.90
D	--	50 Hz	380 V	4.00 kW	1445 r/min	8.70 A	0.780	88.60 %	26.50 N·m	6.90
D	--	50 Hz	415 V	4.00 kW	1455 r/min	8.70 A	0.740	88.60 %	26.30 N·m	8.10
D	--	60 Hz	460 V	4.00 kW	1755 r/min	7.40 A	0.750	89.50 %	21.70 N·m	9.30

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U_{in})	400 V
Frequency (f)	50 Hz
Output Power	4 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 88.6 % Partial Load (75%) 89.1 % Partial Load (50%) 88.3 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 89.5 % Partial Load (75%) 89.9 % Partial Load (50%) 88.8 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	4
Two Speed Motor	No
Type of Duty	S1
Voltage Code	D

Mechanical

Frame Material	Aluminum
Frame Size	112
Bearing	6306-2Z/C3
Bearing NDE	6205-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Product Net Depth / Length	431 mm
Product Net Height	260 mm
Product Net Width	222 mm
Product Net Weight	44 kg
Gross Weight	49 kg

Environmental

WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland

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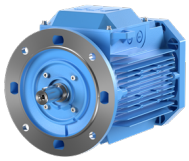
External Classifications and Standards

UNSPSC	26101100

Categories

Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Aluminum Motors





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