



PRODUCT-DETAILS

3GAA112320-BDE

IE2 High Efficiency Aluminum Motors, 4 kW,
400 V (3GAA112320-BDE)



General Information	
Product ID	3GAA112320-BDE
ABB Type Designation	M3AA 112MB 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 4 kW, 400 V (3GAA112320-BDE)
Ordering	
ABB Type Designation	M3AA 112MB 4
Invoice Description	M3AA 112MB 4
Product Name	3-Phase squirrel cage motor
Product Type	3AA2__M3AA_IE2_AA
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Poland (PL) Finland (FI) China (CN) Romania (RO)

Customs Tariff Number	85015220
Stocked At (Warehouses)	Menden, Germany Shanghai, China Vittuone, Italy
Medium Description	4kW, 4 Poles, Frame Size 112, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA112320-BDE)
Short Description	4kW, 4P, Frame Size 112, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

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	1445 r/min	5.00 A	0.750	86.70 %	26.40 N·m	7.30
D	--	50 Hz	400 V	4.00 kW	1445 r/min	8.80 A	0.750	86.70 %	26.40 N·m	7.30
D	--	60 Hz	460 V	4.00 kW	1745 r/min	7.40 A	0.770	87.60 %	21.80 N·m	8.20

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 IE2 Full Load (100%) 86.7 % Partial Load (75%) 86.5 % Partial Load (50%) 85.2 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 87.6 % Partial Load (75%) 87.5 % Partial Load (50%) 85.7 %
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	
Package Level 1 Units	0 carton
Product Net Depth / Length	393 mm
Product Net Height	249 mm
Product Net Width	230 mm
Product Net Weight	34 kg
Gross Weight	39 kg

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

External Classifications and Standards	
UNSPSC	26101100

Categories	
Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE2 High Efficiency Aluminum Motors	

