

PRODUCT-DETAILS

3GAA112320-AEK

IE3 Premium Efficiency Aluminum Motors, 4 kW, 500 V (3GAA112320-AEK)



General Information	
Product ID	3GAA112320-AEK
ABB Type Designation	M3AA 112MB 4
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 4 kW, 500 V (3GAA112320-AEK)

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
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Finland (FI)
Customs Tariff Number	85015220
Medium Description	4kW, 4 Poles, Frame Size 112, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA112320-AEK)
Short Description	4kW, 4P, Frame Size 112, 3PH, 500V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
D	--	50 Hz	500 V	4.00 kW	1451 r/min	6.87 A	0.770	88.60 %	26.30 N·m	7.60
D	--	60 Hz	575 V	4.00 kW	1755 r/min	7.43 A	0.750	89.50 %	21.74 N·m	5.90
Connection Configuration										D
Temperature Class Default										--
Input Voltage (U _{in})										500 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%) 89.5 % Partial Load (50%) 89.0 %
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										E

Mechanical

Frame Material	Aluminum
Frame Size	112
Bearing	6306-2Z/C3
Bearing NDE	6205-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 carton
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 (FI)

Classifications	
UNSPSC	26101100

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

