



PRODUCT-DETAILS

3GAA111320-APK

IE3 Premium Efficiency Aluminum Motors, 4 kW, 230 V (3GAA111320-APK)



General Information	
Product ID	3GAA111320-APK
ABB Type Designation	M3AA 112MB 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 4 kW, 230 V (3GAA111320-APK)

Ordering	
ABB Type Designation	M3AA 112MB 2
Invoice Description	M3AA 112MB 2
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, 2 Poles, Frame Size 112, 3 Phases, 230V, 60Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA111320-APK)
Short Description	4kW, 2P, Frame Size 112, 3PH, 230V, 60Hz, IP55, IMB3/IM1001

Electrical

Electrical Data											
Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN	
D	--	50 Hz	200 V	4.00 kW	2888 r/min	14.20 A	0.910	88.10 %	13.20 N·m	8.40	
D	--	60 Hz	230 V	4.00 kW	3500 r/min	12.40 A	0.900	88.50 %	10.90 N·m	10.00	
Connection Configuration											D
Temperature Class Default											--
Input Voltage (U _{in})											230 V
Frequency (f)											60 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%) 88.1 % Partial Load (75%) 89.4 % Partial Load (50%) 89.6 %
IE Class Data (60 Hz)											IE Class IE3 Full Load (100%) 88.5 % Partial Load (75%) 88.9 % Partial Load (50%) 87.9 %
IP Class											IP55
Insulation Class											ICLF
Direction of Rotation											Both sides
Number of Poles (High)											2
Two Speed Motor											No
Type of Duty											S1
Voltage Code											P

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	38 kg
Gross Weight	43 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	

