

PRODUCT-DETAILS

3GAA221220-HEK

IE3 Premium Efficiency Aluminum Motors, 55 kW, 500 V (3GAA221220-HEK)



General Information

Product ID	3GAA221220-HEK
ABB Type Designation	M3AA 225SMB 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 55 kW, 500 V (3GAA221220-HEK)

Ordering

ABB Type Designation	M3AA 225SMB 2
Invoice Description	M3AA 225SMB 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) Poland (PL)
Customs Tariff Number	85015290
Replaced Product ID (OLD)	3GAA221052-HEK
Medium Description	55kW, 2 Poles, Frame Size 225, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA221220-HEK)
Short Description	55kW, 2P, Frame Size 225, 3PH, 500V, 50Hz, IP55, IMB35/IM2001

Electrical

Electrical Data											
Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN	
D	--	50 Hz	500 V	55.00 kW	2964 r/min	78.00 A	0.860	94.30 %	177.31 N·m	7.20	
D	--	60 Hz	575 V	55.00 kW	3575 r/min	67.60 A	0.860	93.60 %	146.90 N·m	8.10	
Connection Configuration										D	
Temperature Class Default										--	
Input Voltage (U _{in})										500 V	
Frequency (f)										50 Hz	
Output Power										55 kW	
Altitude										1000 m	
Ambient Temperature										40 °C	
IC Class										IC411	
IE Class Data (50 Hz)										IE Class IE3 Full Load (100%) 94.3 % Partial Load (75%) 94.5 % Partial Load (50%) 94.0 %	
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 93.6 % Partial Load (75%) 93.6 % Partial Load (50%) 92.5 %	
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										E	

Mechanical

Frame Material	Aluminum
Frame Size	225
Bearing	6313-2Z/C3
Bearing NDE	6212-2Z/C3
IM Class	IMB35 IM2001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	850 mm
Product Net Height	553 mm
Product Net Width	418 mm
Product Net Weight	288 kg
Gross Weight	298 kg

Environmental

WEEE Category	4. Large Equipment (Any 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

