



PRODUCT-DETAILS

3GAA221210-BEK

IE3 Premium Efficiency Aluminum Motors, 45 kW, 500 V (3GAA221210-BEK)



General Information

Product ID	3GAA221210-BEK
ABB Type Designation	M3AA 225SMA 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 45 kW, 500 V (3GAA221210-BEK)

Ordering

ABB Type Designation	M3AA 225SMA 2
Invoice Description	M3AA 225SMA 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)	3GAA221051-BEK
Medium Description	45kW, 2 Poles, Frame Size 225, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA221210-BEK)
Short Description	45kW, 2P, Frame Size 225, 3PH, 500V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data											
Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN	
D	--	50 Hz	500 V	45.00 kW	2968 r/min	63.50 A	0.870	94.00 %	144.80 N·m	7.30	
D	--	60 Hz	575 V	45.00 kW	3570 r/min	55.20 A	0.870	93.60 %	120.41 N·m	7.80	
Connection Configuration											D
Temperature Class Default											--
Input Voltage (U <sub>in</sub> )											500 V
Frequency (f)											50 Hz
Output Power											45 kW
Altitude											1000 m
Ambient Temperature											40 °C
IC Class											IC411
IE Class Data (50 Hz)											IE Class IE3 Full Load (100%) 94.0 % Partial Load (75%) 94.0 % Partial Load (50%) 93.0 %
IE Class Data (60 Hz)											IE Class IE3 Full Load (100%) 93.6 % Partial Load (75%) 93.1 % Partial Load (50%) 91.5 %
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	IMB5 IM3001
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	326 kg
Gross Weight	336 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

