



PRODUCT-DETAILS

3GAA253220-AEK

IE3 Premium Efficiency Aluminum Motors, 45 kW, 500 V (3GAA253220-AEK)



General Information

Product ID	3GAA253220-AEK
ABB Type Designation	M3AA 250SMB 6
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 45 kW, 500 V (3GAA253220-AEK)

Ordering

ABB Type Designation	M3AA 250SMB 6
Invoice Description	M3AA 250SMB 6
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)	3GAA253052-AEK
Medium Description	45kW, 6 Poles, Frame Size 250, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA253220-AEK)
Short Description	45kW, 6P, Frame Size 250, 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	45.00 kW	991 r/min	69.90 A	0.790	94.10 %	433.21 N·m	8.00	
D	--	60 Hz	575 V	45.00 kW	1193 r/min	62.00 A	0.770	94.60 %	361.70 N·m	8.30	
Connection Configuration										D	
Temperature Class Default										--	
Input Voltage (U _{in})										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%) 94.1 % Partial Load (75%) 94.2 % Partial Load (50%) 93.6 %	
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 94.6 % Partial Load (75%) 94.5 % Partial Load (50%) 93.6 %	
IP Class										IP55	
Insulation Class										ICLF	
Direction of Rotation										Both sides	
Number of Poles (High)										6	
Two Speed Motor										No	
Type of Duty										S1	
Voltage Code										E	

Mechanical

Frame Material	Aluminum
Frame Size	250
Bearing	6315-2Z/C3
Bearing NDE	6213-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	884 mm
Product Net Height	601 mm
Product Net Width	473 mm
Product Net Weight	389 kg
Gross Weight	399 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

