



PRODUCT-DETAILS

3GAA182420-AEK

IE3 Premium Efficiency Aluminum Motors, 22 kW, 500 V (3GAA182420-AEK)



General Information

Product ID	3GAA182420-AEK
ABB Type Designation	M3AA 180MLB 4
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 22 kW, 500 V (3GAA182420-AEK)

Ordering

ABB Type Designation	M3AA 180MLB 4
Invoice Description	M3AA 180MLB 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) Poland (PL)
Customs Tariff Number	85015230
Replaced Product ID (OLD)	3GAA182052-AEK
Medium Description	22kW, 4 Poles, Frame Size 180, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA182420-AEK)
Short Description	22kW, 4P, Frame Size 180, 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	22.00 kW	1480 r/min	33.30 A	0.820	93.00 %	141.00 N·m	8.20	
D	--	60 Hz	575 V	22.00 kW	1783 r/min	28.60 A	0.820	93.80 %	117.00 N·m	9.30	
Connection Configuration										D	
Temperature Class Default										--	
Input Voltage (U _{in})										500 V	
Frequency (f)										50 Hz	
Output Power										22 kW	
Altitude										1000 m	
Ambient Temperature										40 °C	
IC Class										IC411	
IE Class Data (50 Hz)										IE Class IE3	
										Full Load (100%) 93.0 %	
										Partial Load (75%) 93.8 %	
										Partial Load (50%) 93.8 %	
IE Class Data (60 Hz)										IE Class IE3	
										Full Load (100%) 93.8 %	
										Partial Load (75%) 94.2 %	
										Partial Load (50%) 93.7 %	
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	180
Bearing	6310-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	726 mm
Product Net Height	405 mm
Product Net Width	341 mm
Product Net Weight	176 kg
Gross Weight	186 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

