



PRODUCT-DETAILS

3GAA181410-AEG

IE2 High Efficiency Aluminum Motors, 22 kW,  
500 V (3GAA181410-AEG)



General Information

Product ID	3GAA181410-AEG
ABB Type Designation	M3AA 180MLA 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 22 kW, 500 V (3GAA181410-AEG)

Ordering

ABB Type Designation	M3AA 180MLA 2
Invoice Description	M3AA 180MLA 2
Product Name	3-Phase squirrel cage motor
Product Type	3AA2_M3AA_IE2_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)	3GAA181031-AEG
Medium Description	22kW, 2 Poles, Frame Size 180, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA181410-AEG)
Short Description	22kW, 2P, 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	2952 r/min	32.20 A	0.870	92.20 %	71.10 N·m	7.70
D	--	60 Hz	575 V	22.00 kW	3559 r/min	27.90 A	0.870	92.40 %	59.00 N·m	8.80
Connection Configuration										D
Temperature Class Default										--
Input Voltage (U <sub>in</sub> )										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 IE2
										Full Load (100%) 92.2 %
										Partial Load (75%) 92.7 %
										Partial Load (50%) 92.2 %
IE Class Data (60 Hz)										IE Class IE3
										Full Load (100%) 92.4 %
										Partial Load (75%) 92.4 %
										Partial Load (50%) 91.2 %
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	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	354 mm
Product Net Weight	132 kg
Gross Weight	142 kg

Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)

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Classifications	
UNSPSC	26101100

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Categories
Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE2 High Efficiency Aluminum Motors

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