

PRODUCT-DETAILS

# 3GAA182420-HEG

## IE2 High Efficiency Aluminum Motors, 22 kW, 500 V (3GAA182420-HEG)



General Information	
Product ID	3GAA182420-HEG
ABB Type Designation	M3AA 180MLB 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 22 kW, 500 V (3GAA182420-HEG)

Ordering	
ABB Type Designation	M3AA 180MLB 4
Invoice Description	M3AA 180MLB 4
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)
Customs Tariff Number	85015230
Medium Description	22kW, 4 Poles, Frame Size 180, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA182420-HEG)
Short Description	22kW, 4P, Frame Size 180, 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	22.00 kW	1475 r/min	32.90 A	0.840	92.30 %	142.00 N·m	7.30
D	--	60 Hz	575 V	22.00 kW	1780 r/min	29.00 A	0.830	93.10 %	118.00 N·m	8.30
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%) 92.3 % Partial Load (75%) 93.3 % Partial Load (50%) 93.2 %
IE Class Data (60 Hz)										IE Class IE2 Full Load (100%) 93.1 % Partial Load (75%) 93.4 % Partial Load (50%) 92.5 %
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	IMB35 IM2001
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	163 kg
Gross Weight	173 kg

Environmental	
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)

Classifications	
UNSPSC	26101100

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

