

PRODUCT-DETAILS

3GAA164410-AFK

IE3 Premium Efficiency Aluminum Motors, 4 kW, 500 V (3GAA164410-AFK)



General Information	
Product ID	3GAA164410-AFK
ABB Type Designation	M3AA 160MLA 8
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 4 kW, 500 V (3GAA164410-AFK)

Ordering	
ABB Type Designation	M3AA 160MLA 8
Invoice Description	M3AA 160MLA 8
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) China (CN)
Customs Tariff Number	85015220
Medium Description	4kW, 8 Poles, Frame Size 160, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA164410-AFK)
Short Description	4kW, 8P, Frame Size 160, 3PH, 500V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	500 V	4.00 kW	734 r/min	8.24 A	0.650	84.80 %	52.00 N·m	4.50
Y	--	60 Hz	575 V	4.00 kW	886 r/min	7.35 A	0.630	86.50 %	43.10 N·m	5.00
Connection Configuration										Y
Temperature Class Default										--
Input Voltage (U _{in})										500 V
Frequency (f)										50 Hz
Output Power										4 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE3 Full Load (100%) 84.8 % Partial Load (75%) 85.1 % Partial Load (50%) 83.2 %
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 86.5 % Partial Load (75%) 86.1 % Partial Load (50%) 83.5 %
IP Class										IP55
Insulation Class										ICLF
Direction of Rotation										Both sides
Number of Poles (High)										8
Two Speed Motor										No
Type of Duty										S1
Voltage Code										F

Mechanical

Frame Material	Aluminum
Frame Size	160
Bearing	6309-2Z/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	584 mm
Product Net Height	370 mm
Product Net Width	310 mm
Product Net Weight	94 kg
Gross Weight	104 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
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Categories

Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Aluminum Motors

