

PRODUCT-DETAILS

# 3GAA164430-BEG

## IE2 High Efficiency Aluminum Motors, 7.5 kW, 500 V (3GAA164430-BEG)



General Information

Product ID	3GAA164430-BEG
ABB Type Designation	M3AA 160MLC 8
Catalog Description	IE2 High Efficiency Aluminum Motors, 7.5 kW, 500 V (3GAA164430-BEG)

Ordering

ABB Type Designation	M3AA 160MLC 8
Invoice Description	M3AA 160MLC 8
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	85015220
Replaced Product ID (OLD)	3GAA164033-BEG
Medium Description	7.5kW, 8 Poles, Frame Size 160, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA164430-BEG)
Short Description	7.5kW, 8P, Frame Size 160, 3PH, 500V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data										
Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
D	--	50 Hz	500 V	7.50 kW	727 r/min	15.80 A	0.650	86.00 %	98.50 N·m	4.70
D	--	60 Hz	575 V	7.50 kW	882 r/min	13.90 A	0.630	87.70 %	81.20 N·m	5.10
Connection Configuration										D
Temperature Class Default										--
Input Voltage (U <sub>in</sub> )										500 V
Frequency (f)										50 Hz
Output Power										7.5 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE2
										Full Load (100%) 86.0 %
										Partial Load (75%) 87.3 %
										Partial Load (50%) 86.5 %
IE Class Data (60 Hz)										IE Class IE1
										Full Load (100%) 87.7 %
										Partial Load (75%) 87.8 %
										Partial Load (50%) 86.2 %
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										E

Mechanical

Frame Material	Aluminum
Frame Size	160
Bearing	6309-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	681 mm
Product Net Height	370 mm
Product Net Width	310.5 mm
Product Net Weight	137 kg
Gross Weight	147 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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