



PRODUCT-DETAILS

3GAA091520-AFK

IE3 Premium Efficiency Aluminum Motors, 1.5 kW, 500 V (3GAA091520-AFK)



General Information

Product ID	3GAA091520-AFK
ABB Type Designation	M3AA 90LB 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 1.5 kW, 500 V (3GAA091520-AFK)

Ordering

ABB Type Designation	M3AA 90LB 2
Invoice Description	M3AA 90LB 2
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)
Customs Tariff Number	85015220
Medium Description	1.5kW, 2 Poles, Frame Size 90, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA091520-AFK)
Short Description	1.5kW, 2P, Frame Size 90, 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	1.50 kW	2906 r/min	2.20 A	0.890	84.20 %	4.90 N·m	7.90
Y	--	60 Hz	575 V	1.50 kW	3522 r/min	1.96 A	0.880	85.50 %	4.00 N·m	9.60
Connection Configuration										Y
Temperature Class Default										--
Input Voltage (U _{in})										500 V
Frequency (f)										50 Hz
Output Power										1.5 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE3 Full Load (100%) 84.2 % Partial Load (75%) 84.7 % Partial Load (50%) 84.6 %
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 85.5 % Partial Load (75%) 85.3 % Partial Load (50%) 84.0 %
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										F

Mechanical

Frame Material	Aluminum
Frame Size	90
Bearing	6205-2Z/C3
Bearing NDE	6204-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 carton
Product Net Depth / Length	331.5 mm
Product Net Height	217 mm
Product Net Width	170 mm
Product Net Weight	17 kg
Gross Weight	20 kg

Environmental

WEEE Category	5. Small Equipment (No 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

