



PRODUCT-DETAILS

3GAA091500-AFE

IE2 High Efficiency Aluminum Motors, 1.5 kW,  
500 V (3GAA091500-AFE)



General Information

Product ID	3GAA091500-AFE
ABB Type Designation	M3AA 90L 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 1.5 kW, 500 V (3GAA091500-AFE)

Ordering

ABB Type Designation	M3AA 90L 2
Invoice Description	M3AA 90L 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) China (CN) Poland (PL)
Customs Tariff Number	85015220
Replaced Product ID (OLD)	3GAA091312-AFE
Medium Description	1.5kW, 2 Poles, Frame Size 90, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA091500-AFE)
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	2900 r/min	2.30 A	0.860	84.10 %	4.90 N·m	7.60
D	--	60 Hz	575 V	1.50 kW	3510 r/min	2.00 A	0.840	85.40 %	4.00 N·m	8.40

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	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 IE2 Full Load (100%) 84.1 % Partial Load (75%) 85.0 % Partial Load (50%) 83.5 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 85.4 % Partial Load (75%) 85.3 % Partial Load (50%) 83.2 %
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	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	309.5 mm
Product Net Height	217 mm
Product Net Width	177 mm
Product Net Weight	16 kg
Gross Weight	19 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

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

