

PRODUCT-DETAILS

# 3GAA101520-BSE053

## IE2 High Efficiency Aluminum Motors, 3 kW, 400 V (3GAA101520-BSE053)



General Information	
Product ID	3GAA101520-BSE053
ABB Type Designation	M3AA 100LB 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 3 kW, 400 V (3GAA101520-BSE053)

Ordering	
ABB Type Designation	M3AA 100LB 2
Invoice Description	M3AA 100LB 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
Stocked At (Warehouses)	Menden, Germany
Medium Description	3kW, 2P, Frame Size 100, 3 Phases, 400V, 50Hz, IP55 Enclosure,

IMB5/IM3001 Mounting (3GAA101520-BSE053)	
Short Description	3kW, 2P, Frame Size 100, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	400 V	3.00 kW	2920 r/min	5.80 A	0.860	86.40 %	9.80 N·m	9.30
D	--	50 Hz	230 V	3.00 kW	2920 r/min	10.10 A	0.860	86.40 %	9.80 N·m	9.30
Y	--	60 Hz	460 V	3.00 kW	3530 r/min	5.10 A	0.840	87.50 %	8.10 N·m	10.00

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	3 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 86.4 % Partial Load (75%) 86.1 % Partial Load (50%) 84.0 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 87.5 % Partial Load (75%) 86.8 % Partial Load (50%) 84.6 %
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	S
EX-Protection	Exec
Gas Group	IIC

Mechanical

Frame Material	Aluminum
Frame Size	100
Bearing	6306-2Z/C3
Bearing NDE	6205-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 carton
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Product Net Depth / Length	373 mm
Product Net Height	237 mm
Product Net Width	200 mm
Product Net Weight	25 kg
Gross Weight	30 kg

**Environmental**

WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
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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

