



PRODUCT-DETAILS

3GAA161320-BDE

IE2 High Efficiency Aluminum Motors, 11 kW,  
400 V (3GAA161320-BDE)



General Information

Product ID	3GAA161320-BDE
ABB Type Designation	M3AA 160MB 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 11 kW, 400 V (3GAA161320-BDE)

Ordering

ABB Type Designation	M3AA 160MB 2
Invoice Description	M3AA 160MB 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) Poland (PL)
Customs Tariff Number	85015230
Medium Description	11kW, 2 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA161320-BDE)
Short Description	11kW, 2P, Frame Size 160, 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	690 V	11.00 kW	2900 r/min	11.40 A	0.870	90.30 %	36.20 N·m	8.50
D	--	50 Hz	400 V	11.00 kW	2900 r/min	20.20 A	0.870	90.30 %	36.20 N·m	8.50
D	--	60 Hz	460 V	11.00 kW	3504 r/min	17.20 A	0.940	90.90 %	30.00 N·m	9.00

Connection Configuration	D
Temperature Class	--
Default	
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	11 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 90.3 % Partial Load (75%) 90.5 % Partial Load (50%) 89.4 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 90.9 % Partial Load (75%) 90.3 % Partial Load (50%) 88.3 %
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	D

Mechanical

Frame Material	Aluminum
Frame Size	160
Bearing	6309-2Z/C3
Bearing NDE	6206-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	597 mm
Product Net Height	349 mm
Product Net Width	310 mm
Product Net Weight	79 kg
Gross Weight	89 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

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

