



PRODUCT-DETAILS

# 3GAA161450-ASG

## IE2 High Efficiency Aluminum Motors, 27 kW, 400 V (3GAA161450-ASG)



General Information	
Product ID	3GAA161450-ASG
ABB Type Designation	M3AA 160MLE 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 27 kW, 400 V (3GAA161450-ASG)

Ordering	
ABB Type Designation	M3AA 160MLE 2
Invoice Description	M3AA 160MLE 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
Replaced Product ID (OLD)	3GAA161035-ASG
Medium Description	27kW, 2 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA161450-ASG)

Short Description

27kW, 2P, Frame Size 160, 3PH, 400V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	400 V	27.00 kW	2939 r/min	46.40 A	0.900	92.20 %	87.70 N·m	8.80
D	--	50 Hz	230 V	27.00 kW	2939 r/min	82.00 A	0.900	92.20 %	87.70 N·m	8.80
Y	--	50 Hz	415 V	27.00 kW	2945 r/min	45.60 A	0.890	92.30 %	87.70 N·m	9.30
Y	--	60 Hz	440 V	27.00 kW	3540 r/min	41.90 A	0.920	92.30 %	72.81 N·m	9.60
Y	--	60 Hz	460 V	27.00 kW	3545 r/min	40.90 A	0.900	92.40 %	72.71 N·m	10.20

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	27 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 92.2 % Partial Load (75%) 93.1 % Partial Load (50%) 93.1 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 92.3 % Partial Load (75%) 92.5 % Partial Load (50%) 91.5 %
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

Mechanical

Frame Material	Aluminum
Frame Size	160
Bearing	6309-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
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Product Net Depth / Length	681 mm
Product Net Height	370 mm
Product Net Width	310.5 mm
Product Net Weight	145 kg
Gross Weight	155 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	

