

PRODUCT-DETAILS

# 3GAA161420-ASK

## IE3 Premium Efficiency Aluminum Motors, 15 kW, 400 V (3GAA161420-ASK)



General Information	
Product ID	3GAA161420-ASK
ABB Type Designation	M3AA 160MLB 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 15 kW, 400 V (3GAA161420-ASK)

Ordering	
ABB Type Designation	M3AA 160MLB 2
Invoice Description	M3AA 160MLB 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) Poland (PL)
Customs Tariff Number	85015230
Replaced Product ID (OLD)	3GAA161052-ASK
Stocked At (Warehouses)	Menden, Germany

Medium Description	15kW, 2 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA161420-ASK)
Short Description	15kW, 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	15.00 kW	2947 r/min	26.70 A	0.880	91.90 %	48.60 N·m	8.20
D	--	50 Hz	230 V	15.00 kW	2947 r/min	46.50 A	0.880	91.90 %	48.60 N·m	8.20
Y	--	50 Hz	380 V	15.00 kW	2939 r/min	27.50 A	0.900	91.90 %	48.70 N·m	7.90
D	--	50 Hz	220 V	15.00 kW	2939 r/min	47.60 A	0.900	91.90 %	48.70 N·m	7.90
Y	--	50 Hz	415 V	15.00 kW	2960 r/min	26.60 A	0.860	91.90 %	48.40 N·m	8.70
Y	--	60 Hz	460 V	15.00 kW	3554 r/min	23.20 A	0.890	91.00 %	40.30 N·m	8.50

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	15 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 91.9 % Partial Load (75%) 92.0 % Partial Load (50%) 91.3 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 91.0 % Partial Load (75%) 90.4 % Partial Load (50%) 89.6 %
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

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)
Product Net Depth / Length	681 mm
Product Net Height	370 mm
Product Net Width	310 mm
Product Net Weight	123 kg
Gross Weight	133 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 → IE3 Premium Efficiency Aluminum Motors

