



PRODUCT-DETAILS

3GAA161430-ASK

IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA161430-ASK)



General Information

Product ID	3GAA161430-ASK
ABB Type Designation	M3AA 160MLC 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA161430-ASK)

Ordering

ABB Type Designation	M3AA 160MLC 2
Invoice Description	M3AA 160MLC 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)	3GAA161053-ASK
Stocked At (Warehouses)	Menden, Germany
Medium Description	18.5kW, 2 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA161430-ASK)
Short Description	18.5kW, 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	18.50 kW	2949 r/min	32.10 A	0.900	92.40 %	59.90 N·m	9.00
D	--	50 Hz	230 V	18.50 kW	2949 r/min	55.80 A	0.900	92.40 %	59.90 N·m	9.00
Y	--	50 Hz	380 V	18.50 kW	2939 r/min	33.40 A	0.910	92.40 %	60.10 N·m	8.10
D	--	50 Hz	220 V	18.50 kW	2939 r/min	57.70 A	0.910	92.40 %	60.10 N·m	8.10
Y	--	50 Hz	415 V	18.50 kW	2952 r/min	31.30 A	0.890	92.40 %	59.80 N·m	9.60
Y	--	60 Hz	460 V	18.50 kW	3555 r/min	28.40 A	0.890	91.70 %	49.70 N·m	10.50

Connection Configuration	Y
Temperature Class	--
Default	
Input Voltage (U _{in})	400 V
Frequency (f)	50 Hz
Output Power	18.5 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 92.4 % Partial Load (75%) 92.9 % Partial Load (50%) 92.3 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 91.7 % Partial Load (75%) 91.9 % Partial Load (50%) 90.7 %
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	137 kg
Gross Weight	147 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
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Categories

Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Aluminum Motors

