



PRODUCT-DETAILS

3GAA181430-HEK

IE3 Premium Efficiency Aluminum Motors, 37 kW, 500 V (3GAA181430-HEK)



General Information

Product ID	3GAA181430-HEK
ABB Type Designation	M3AA 180MLC 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 37 kW, 500 V (3GAA181430-HEK)

Ordering

ABB Type Designation	M3AA 180MLC 2
Invoice Description	M3AA 180MLC 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)	3GAA181053-HEK
Medium Description	37kW, 2 Poles, Frame Size 180, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA181430-HEK)
Short Description	37kW, 2P, Frame Size 180, 3PH, 500V, 50Hz, IP55, IMB35/IM2001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
D	--	50 Hz	500 V	37.00 kW	2949 r/min	52.30 A	0.870	93.70 %	119.55 N·m	8.30
D	--	60 Hz	575 V	37.00 kW	3563 r/min	45.60 A	0.860	93.00 %	99.15 N·m	4.40
Connection Configuration										D
Temperature Class Default										--
Input Voltage (U _{in})										500 V
Frequency (f)										50 Hz
Output Power										37 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE3 Full Load (100%) 93.7 % Partial Load (75%) 94.3 % Partial Load (50%) 94.3 %
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 93.0 % Partial Load (75%) 93.2 % Partial Load (50%) 92.8 %
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										E

Mechanical

Frame Material	Aluminum
Frame Size	180
Bearing	6310-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB35 IM2001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	726 mm
Product Net Height	405 mm
Product Net Width	341 mm
Product Net Weight	176 kg
Gross Weight	186 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

