



PRODUCT-DETAILS

3GAA162430-AEK

IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 500 V (3GAA162430-AEK)



General Information	
Product ID	3GAA162430-AEK
ABB Type Designation	M3AA 160MLC 4
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 500 V (3GAA162430-AEK)

Ordering	
ABB Type Designation	M3AA 160MLC 4
Invoice Description	M3AA 160MLC 4
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)	3GAA162053-AEK
Medium Description	18.5kW, 4 Poles, Frame Size 160, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA162430-AEK)

Short Description

18.5kW, 4P, Frame Size 160, 3PH, 500V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
D	--	50 Hz	500 V	18.50 kW	1477 r/min	29.70 A	0.770	92.60 %	119.84 N·m	8.40
D	--	60 Hz	575 V	18.50 kW	1779 r/min	26.30 A	0.750	93.60 %	99.27 N·m	8.40

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U _{in})	500 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%) 92.6 % Partial Load (75%) 93.0 % Partial Load (50%) 92.5 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 93.6 % Partial Load (75%) 93.6 % Partial Load (50%) 92.7 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	4
Two Speed Motor	No
Type of Duty	S1
Voltage Code	E

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	135 kg

Gross Weight	145 kg
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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

