



PRODUCT-DETAILS

3GAA182410-AEK

IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 500 V (3GAA182410-AEK)



General Information	
Product ID	3GAA182410-AEK
ABB Type Designation	M3AA 180MLA 4
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 500 V (3GAA182410-AEK)

Ordering	
ABB Type Designation	M3AA 180MLA 4
Invoice Description	M3AA 180MLA 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)	3GAA182051-AEK
Medium Description	18.5kW, 4 Poles, Frame Size 180, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA182410-AEK)

Short Description

18.5kW, 4P, Frame Size 180, 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	1481 r/min	27.80 A	0.830	92.60 %	119.30 N·m	7.20
D	--	60 Hz	575 V	18.50 kW	1783 r/min	24.20 A	0.820	93.60 %	99.04 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%) 93.2 % Partial Load (50%) 92.9 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 93.6 % Partial Load (75%) 94.1 % Partial Load (50%) 93.6 %
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	180
Bearing	6310-2Z/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	726 mm
Product Net Height	405 mm
Product Net Width	341 mm
Product Net Weight	177 kg

Gross Weight

187 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

