



PRODUCT-DETAILS

3GAA182410-ADK

IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA182410-ADK)



General Information

Product ID	3GAA182410-ADK
ABB Type Designation	M3AA 180MLA 4
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA182410-ADK)

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	Poland (PL) Finland (FI) China (CN)
Customs Tariff Number	85015230
Replaced Product ID (OLD)	3GAA182051-ADK
Stocked At (Warehouses)	Menden, Germany Sant Quirze del Vallés - BCN, Spain
Medium Description	18.5kW, 4 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA182410-ADK)

Short Description18.5kW, 4P, Frame Size 180, 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	690 V	18.50 kW	1481 r/min	20.10 A	0.830	92.60 %	119.30 N·m	7.20
D	--	50 Hz	400 V	18.50 kW	1481 r/min	34.90 A	0.830	92.60 %	119.30 N·m	7.20
Y	--	50 Hz	660 V	18.50 kW	1477 r/min	20.90 A	0.840	92.60 %	119.50 N·m	6.50
D	--	50 Hz	380 V	18.50 kW	1477 r/min	36.30 A	0.840	92.60 %	119.50 N·m	6.50
D	--	50 Hz	415 V	18.50 kW	1482 r/min	33.80 A	0.820	92.60 %	119.17 N·m	7.80
D	--	60 Hz	460 V	18.50 kW	1783 r/min	30.30 A	0.820	93.60 %	99.04 N·m	8.40
Connection Configuration										D
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%) 92.6 % Partial Load (75%) 93.1 % Partial Load (50%) 92.6 %
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 93.6 % Partial Load (75%) 93.7 % Partial Load (50%) 92.9 %
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										D

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
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Categories

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

