



PRODUCT-DETAILS

3GAA182420-ADK

IE3 Premium Efficiency Aluminum Motors, 22 kW, 400 V (3GAA182420-ADK)



General Information

Product ID:	3GAA182420-ADK
ABB Type Designation:	M3AA 180MLB 4
Catalog Description:	IE3 Premium Efficiency Aluminum Motors, 22 kW, 400 V (3GAA182420-ADK)
Display Name:	3GAA182420-ADK

Ordering

ABB Type Designation:	M3AA 180MLB 4
Invoice Description:	M3AA 180MLB 4
Product Name:	3-Phase squirrel cage motor
Product Type:	3AA3__M3AA_IE3_AA
Country of Origin:	Poland Finland China
Customs Tariff Number:	85015230
Replaced Product ID (OLD):	3GAA182052-ADK

Stocked At (Warehouses):	Menden, Germany Sant Quirze del Vallés - BCN, Spain
Medium Description:	22kW, 4 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA182420-ADK)
Short Description:	22kW, 4P, Frame Size 180, 3PH, 400V, 50Hz, IP55, IMB3/IM1001

Electrical

Conn	Temp Class	Network Freq	Network Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	22.00 kW	1480 r/min	24.10 A	0.820	93.00 %	141.00 N-m	8.20
D	--	50 Hz	400 V	22.00 kW	1480 r/min	41.50 A	0.820	93.00 %	141.00 N-m	8.20
Y	--	50 Hz	660 V	22.00 kW	1477 r/min	24.60 A	0.840	93.00 %	141.00 N-m	7.50
D	--	50 Hz	380 V	22.00 kW	1477 r/min	42.70 A	0.840	93.00 %	141.00 N-m	7.50
D	--	50 Hz	415 V	22.00 kW	1482 r/min	40.90 A	0.800	93.00 %	141.00 N-m	8.60
D	--	60 Hz	460 V	22.00 kW	1783 r/min	35.80 A	0.820	93.80 %	117.00 N-m	9.30

Connection Configuration:	D
Temperature Class Default:	--
Input Voltage (U_{in}):	400 V
Frequency (f):	50 Hz
Output Power:	22 kW
Altitude:	1000 m
Ambient Temperature:	40 °C
IC Class:	IC411
IE Class Data (50 Hz):	IE Class IE3 Full Load (100%) 93.0 % Partial Load (75%) 93.7 % Partial Load (50%) 93.5 %
IE Class Data (60 Hz):	IE Class IE3 Full Load (100%) 93.8 % Partial Load (75%) 94.2 % Partial Load (50%) 93.7 %
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:	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

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

External Classifications and Standards

UNSPSC:	26101100
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Categories

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

