



PRODUCT-DETAILS

# 3GAA181420-ASG

## IE2 High Efficiency Aluminum Motors, 30 kW, 400 V (3GAA181420-ASG)



General Information

Product ID	3GAA181420-ASG
ABB Type Designation	M3AA 180MLB 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 30 kW, 400 V (3GAA181420-ASG)

Ordering

ABB Type Designation	M3AA 180MLB 2
Invoice Description	M3AA 180MLB 2
Product Name	3-Phase squirrel cage motor
Product Type	3AA2_M3AA_IE2_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)	3GAA181032-ASG 3GAA181062-ASA
Stocked At (Warehouses)	Menden, Germany
Medium Description	30kW, 2 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA181420-ASG)
Short Description	30kW, 2P, 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	400 V	30.00 kW	2950 r/min	53.00 A	0.880	92.70 %	97.10 N·m	7.90
D	--	50 Hz	230 V	30.00 kW	2950 r/min	93.70 A	0.880	92.70 %	97.10 N·m	7.90
Y	--	50 Hz	415 V	30.00 kW	2955 r/min	52.10 A	0.860	92.90 %	97.10 N·m	8.30
Y	--	60 Hz	440 V	30.00 kW	3553 r/min	47.10 A	0.900	92.70 %	80.60 N·m	8.10
Y	--	60 Hz	460 V	30.00 kW	3558 r/min	45.40 A	0.890	93.00 %	80.50 N·m	9.20

Connection Configuration	Y
Temperature Class	--
Default	
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	30 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 92.7 % Partial Load (75%) 93.5 % Partial Load (50%) 93.3 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 92.7 % Partial Load (75%) 93.1 % Partial Load (50%) 92.5 %
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	S

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	354 mm
Product Net Weight	149 kg
Gross Weight	159 kg

Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
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SCIP

27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)

Classifications

UNSPSC

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Categories

Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE2 High Efficiency Aluminum Motors

