



PRODUCT-DETAILS

3GAA221220-ASK

IE3 Premium Efficiency Aluminum Motors, 55 kW, 400 V (3GAA221220-ASK)



General Information

Product ID	3GAA221220-ASK
ABB Type Designation	M3AA 225SMB 2
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 55 kW, 400 V (3GAA221220-ASK)

Ordering

ABB Type Designation	M3AA 225SMB 2
Invoice Description	M3AA 225SMB 2
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	85015290
Replaced Product ID (OLD)	3GAA221052-ASK
Stocked At (Warehouses)	Menden, Germany
Medium Description	55kW, 2 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA221220-ASK)
Short Description	55kW, 2P, Frame Size 225, 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	55.00 kW	2964 r/min	97.40 A	0.860	94.30 %	177.30 N·m	7.20
D	--	50 Hz	230 V	55.00 kW	2964 r/min	169.00 A	0.860	94.30 %	177.30 N·m	7.20
Y	--	50 Hz	380 V	55.00 kW	2959 r/min	101.00 A	0.880	94.30 %	177.58 N·m	6.60
D	--	50 Hz	220 V	55.00 kW	2959 r/min	303.00 A	0.880	94.30 %	177.58 N·m	6.60
Y	--	50 Hz	415 V	55.00 kW	2966 r/min	96.10 A	0.840	94.30 %	177.14 N·m	7.60
Y	--	60 Hz	460 V	55.00 kW	3575 r/min	84.50 A	0.860	93.60 %	146.90 N·m	8.10
Connection Configuration										Y
Temperature Class										--
Default										
Input Voltage (U _{in})										400 V
Frequency (f)										50 Hz
Output Power										55 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE3 Full Load (100%) 94.3 % Partial Load (75%) 94.4 % Partial Load (50%) 93.7 %
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)										2
Two Speed Motor										No
Type of Duty										S1
Voltage Code										S

Mechanical

Frame Material	Aluminum
Frame Size	225
Bearing	6313-2Z/C3
Bearing NDE	6212-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	850 mm
Product Net Height	553 mm
Product Net Width	418 mm
Product Net Weight	288 kg

Gross Weight	298 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

