

PRODUCT-DETAILS

# 3GAA224220-ASK

## IE3 Premium Efficiency Aluminum Motors, 22 kW, 400 V (3GAA224220-ASK)



General Information	
Product ID	3GAA224220-ASK
ABB Type Designation	M3AA 225SMB 8
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 22 kW, 400 V (3GAA224220-ASK)

Ordering	
ABB Type Designation	M3AA 225SMB 8
Invoice Description	M3AA 225SMB 8
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
Medium Description	22kW, 8 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA224220-ASK)
Short Description	22kW, 8P, 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	22.00 kW	736 r/min	47.50 A	0.730	90.60 %	285.00 N·m	5.30
D	--	50 Hz	230 V	22.00 kW	736 r/min	82.30 A	0.730	90.60 %	285.00 N·m	5.30
Y	--	50 Hz	380 V	22.00 kW	734 r/min	49.00 A	0.750	90.60 %	286.00 N·m	4.80
D	--	50 Hz	220 V	22.00 kW	734 r/min	84.90 A	0.750	90.60 %	286.00 N·m	4.80
Y	--	50 Hz	415 V	22.00 kW	737 r/min	46.80 A	0.710	90.60 %	285.00 N·m	5.70
Y	--	60 Hz	460 V	22.00 kW	889 r/min	41.70 A	0.710	91.70 %	236.00 N·m	6.00
Connection Configuration										Y
Temperature Class Default										--
Input Voltage (U <sub>in</sub> )										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%) 90.6 % Partial Load (75%) 91.4 % Partial Load (50%) 90.9 %
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 91.7 % Partial Load (75%) 92.2 % Partial Load (50%) 91.6 %
IP Class										IP55
Insulation Class										ICLF
Direction of Rotation										Both sides
Number of Poles (High)										8
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)
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Product Net Depth / Length	880 mm
Product Net Height	553 mm
Product Net Width	418 mm
Product Net Weight	279 kg
Gross Weight	289 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

