



PRODUCT-DETAILS

3GAA221240-ASG

IE2 High Efficiency Aluminum Motors, 80 kW,
400 V (3GAA221240-ASG)



General Information

Product ID	3GAA221240-ASG
ABB Type Designation	M3AA 225SMD 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 80 kW, 400 V (3GAA221240-ASG)

Ordering

ABB Type Designation	M3AA 225SMD 2
Invoice Description	M3AA 225SMD 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	85015381
Replaced Product ID (OLD)	3GAA221034-ASG
Medium Description	80kW, 2 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA221240-ASG)
Short Description	80kW, 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	80.00 kW	2964 r/min	140.00 A	0.870	94.40 %	257.00 N·m	7.30
D	--	50 Hz	230 V	80.00 kW	2964 r/min	248.00 A	0.870	94.40 %	257.00 N·m	7.30
Y	--	50 Hz	415 V	80.00 kW	2967 r/min	140.00 A	0.840	94.40 %	257.00 N·m	7.50
Y	--	60 Hz	440 V	80.00 kW	3566 r/min	124.00 A	0.890	94.40 %	214.00 N·m	7.80
Y	--	60 Hz	460 V	80.00 kW	3570 r/min	120.00 A	0.880	94.50 %	213.00 N·m	8.40
Connection Configuration										Y
Temperature Class Default										--
Input Voltage (U _{in})										400 V
Frequency (f)										50 Hz
Output Power										80 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 94.4 % Partial Load (75%) 94.6 % Partial Load (50%) 94.1 %
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 94.4 % Partial Load (75%) 94.4 % Partial Load (50%) 93.4 %
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	547 mm
Product Net Width	425 mm
Product Net Weight	317 kg
Gross Weight	327 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 → IE2 High Efficiency Aluminum Motors	

