



PRODUCT-DETAILS

3GAA282220-BSG

IE2 High Efficiency Aluminum Motors, 90 kW, 400 V (3GAA282220-BSG)



General Information	
Product ID	3GAA282220-BSG
ABB Type Designation	M3AA 280SMB 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 90 kW, 400 V (3GAA282220-BSG)

Ordering	
ABB Type Designation	M3AA 280SMB 4
Invoice Description	M3AA 280SMB 4
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)
Customs Tariff Number	85015381
Replaced Product ID (OLD)	3GAA282032-BSG
Medium Description	90kW, 4 Poles, Frame Size 280, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA282220-BSG)
Short Description	90kW, 4P, Frame Size 280, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data											
Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN	
Y	--	50 Hz	400 V	90.00 kW	1478 r/min	163.00 A	0.840	94.60 %	581.00 N·m	7.70	
D	--	50 Hz	230 V	90.00 kW	1478 r/min	285.00 A	0.840	94.60 %	581.00 N·m	7.40	
Y	--	50 Hz	415 V	90.00 kW	1480 r/min	163.00 A	0.810	94.70 %	581.00 N·m	8.00	
Y	--	60 Hz	440 V	90.00 kW	1780 r/min	145.00 A	0.860	94.60 %	482.00 N·m	8.30	
Y	--	60 Hz	460 V	90.00 kW	1782 r/min	141.00 A	0.840	94.90 %	482.00 N·m	9.00	
Connection Configuration										Y	
Temperature Class Default										--	
Input Voltage (U _{in})										400 V	
Frequency (f)										50 Hz	
Output Power										90 kW	
Altitude										1000 m	
Ambient Temperature										40 °C	
IC Class										IC411	
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 94.6 % Partial Load (75%) 95.3 % Partial Load (50%) 95.0 %	
IE Class Data (60 Hz)										IE Class IE2 Full Load (100%) 94.6 % Partial Load (75%) 94.9 % Partial Load (50%) 94.4 %	
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										S	

Mechanical

Frame Material	Aluminum
Frame Size	280
Bearing	6316/C3
Bearing NDE	6213/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth /	884 mm

Length	
Product Net Height	657 mm
Product Net Width	522 mm
Product Net Weight	418 kg
Gross Weight	438 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	

