



PRODUCT-DETAILS

3GAA282220-ASG

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



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

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-ASG
Medium Description	90kW, 4 Poles, Frame Size 280, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA282220-ASG)
Short Description	90kW, 4P, Frame Size 280, 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	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	IMB3 IM1001
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
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Categories

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

