

PRODUCT-DETAILS

3GAA283210-BSG

IE2 High Efficiency Aluminum Motors, 45 kW, 400 V (3GAA283210-BSG)



General Information	
Product ID	3GAA283210-BSG
ABB Type Designation	M3AA 280SMA 6
Catalog Description	IE2 High Efficiency Aluminum Motors, 45 kW, 400 V (3GAA283210-BSG)

Ordering	
ABB Type Designation	M3AA 280SMA 6
Invoice Description	M3AA 280SMA 6
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	85015230
Replaced Product ID (OLD)	3GAA283031-BSG
Medium Description	45kW, 6 Poles, Frame Size 280, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA283210-BSG)
Short Description	45kW, 6P, 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	45.00 kW	988 r/min	82.90 A	0.840	93.20 %	434.00 N·m	6.80
D	--	50 Hz	230 V	45.00 kW	988 r/min	146.00 A	0.840	93.20 %	434.00 N·m	6.80
Y	--	50 Hz	415 V	45.00 kW	990 r/min	80.90 A	0.830	93.20 %	434.00 N·m	7.20
Y	--	60 Hz	440 V	45.00 kW	1189 r/min	75.10 A	0.840	93.60 %	361.00 N·m	7.00
Y	--	60 Hz	460 V	45.00 kW	1190 r/min	72.50 A	0.830	93.80 %	361.00 N·m	7.60
Connection Configuration										Y
Temperature Class Default										--
Input Voltage (U _{in})										400 V
Frequency (f)										50 Hz
Output Power										45 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 93.2 % Partial Load (75%) 94.0 % Partial Load (50%) 93.7 %
IE Class Data (60 Hz)										IE Class IE2 Full Load (100%) 93.6 % Partial Load (75%) 94.2 % Partial Load (50%) 93.8 %
IP Class										IP55
Insulation Class										ICLF
Direction of Rotation										Both sides
Number of Poles (High)										6
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	378 kg
Gross Weight	398 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	

