



PRODUCT-DETAILS

3GAA283220-AEG

IE2 High Efficiency Aluminum Motors, 55 kW, 500 V (3GAA283220-AEG)



General Information	
Product ID	3GAA283220-AEG
ABB Type Designation	M3AA 280SMB 6
Catalog Description	IE2 High Efficiency Aluminum Motors, 55 kW, 500 V (3GAA283220-AEG)

Ordering	
ABB Type Designation	M3AA 280SMB 6
Invoice Description	M3AA 280SMB 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)	3GAA283032-AEG
Medium Description	55kW, 6 Poles, Frame Size 280, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA283220-AEG)
Short Description	55kW, 6P, Frame Size 280, 3PH, 500V, 50Hz, IP55, IMB3/IM1001

Electrical											
Electrical Data											
Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN	
D	--	50 Hz	500 V	55.00 kW	988 r/min	82.30 A	0.840	93.20 %	531.00 N·m	7.10	
D	--	60 Hz	575 V	55.00 kW	1190 r/min	71.80 A	0.830	94.00 %	441.00 N·m	8.10	
Connection Configuration											D
Temperature Class Default											--
Input Voltage (U _{in})											500 V
Frequency (f)											50 Hz
Output Power											55 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%) 94.1 % Partial Load (50%) 94.0 %
IE Class Data (60 Hz)											IE Class IE2 Full Load (100%) 94.0 % Partial Load (75%) 94.3 % Partial Load (50%) 93.7 %
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											E
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 / Length											884 mm
Product Net Height											657 mm
Product Net Width											522 mm
Product Net Weight											404 kg
Gross Weight											424 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

