

PRODUCT-DETAILS

# 3GAA282210-AEG

## IE2 High Efficiency Aluminum Motors, 75 kW, 500 V (3GAA282210-AEG)



General Information	
Product ID	3GAA282210-AEG
ABB Type Designation	M3AA 280SMA 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 75 kW, 500 V (3GAA282210-AEG)

Ordering	
ABB Type Designation	M3AA 280SMA 4
Invoice Description	M3AA 280SMA 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	85015230
Replaced Product ID (OLD)	3GAA282031-AEG
Medium Description	75kW, 4 Poles, Frame Size 280, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA282210-AEG)
Short Description	75kW, 4P, 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	75.00 kW	1478 r/min	109.00 A	0.850	94.30 %	484.00 N·m	7.10	
D	--	60 Hz	575 V	75.00 kW	1782 r/min	94.80 A	0.850	94.70 %	401.00 N·m	8.20	
Connection Configuration										D	
Temperature Class Default										--	
Input Voltage (U <sub>in</sub> )										500 V	
Frequency (f)										50 Hz	
Output Power										75 kW	
Altitude										1000 m	
Ambient Temperature										40 °C	
IC Class										IC411	
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 94.3 % Partial Load (75%) 94.9 % Partial Load (50%) 94.6 %	
IE Class Data (60 Hz)										IE Class IE2 Full Load (100%) 94.7 % Partial Load (75%) 94.8 % Partial Load (50%) 94.1 %	
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										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	389 kg
Gross Weight	409 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

