

PRODUCT-DETAILS

# 3GAA282210-HSG

## IE2 High Efficiency Aluminum Motors, 75 kW, 400 V (3GAA282210-HSG)



General Information	
Product ID	3GAA282210-HSG
ABB Type Designation	M3AA 280SMA 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 75 kW, 400 V (3GAA282210-HSG)

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	85015290
Medium Description	75kW, 4 Poles, Frame Size 280, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA282210-HSG)
Short Description	75kW, 4P, Frame Size 280, 3PH, 400V, 50Hz, IP55, IMB35/IM2001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	400 V	75.00 kW	1478 r/min	135.00 A	0.850	94.30 %	484.00 N·m	7.10
D	--	50 Hz	230 V	75.00 kW	1478 r/min	238.00 A	0.850	94.30 %	484.00 N·m	7.10
Y	--	50 Hz	415 V	75.00 kW	1480 r/min	133.00 A	0.830	94.40 %	484.00 N·m	7.40
Y	--	60 Hz	440 V	75.00 kW	1779 r/min	120.00 A	0.860	94.50 %	402.00 N·m	7.60
Y	--	60 Hz	460 V	75.00 kW	1782 r/min	116.00 A	0.850	94.70 %	401.00 N·m	8.20

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 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%) 94.5 % Partial Load (75%) 94.8 % Partial Load (50%) 94.2 %
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	IMB35 IM2001
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

SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)
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Classifications

UNSPSC	26101100
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Categories

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

