



PRODUCT-DETAILS

3GAA282210-HDG

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



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

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) Poland (PL)
Customs Tariff Number	85015290
Replaced Product ID (OLD)	3GAA282031-HDG
Medium Description	75kW, 4 Poles, Frame Size 280, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA282210-HDG)

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	690 V	75.00 kW	1478 r/min	78.30 A	0.850	94.30 %	484.00 N·m	7.10
D	--	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	415 V	75.00 kW	1480 r/min	133.00 A	0.830	94.40 %	484.00 N·m	7.40
D	--	60 Hz	440 V	75.00 kW	1779 r/min	120.00 A	0.860	94.50 %	402.00 N·m	7.60
D	--	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	D
Temperature Class Default	--
Input Voltage (U _{in})	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	D

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	
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	

