

PRODUCT-DETAILS

3GAA251210-HEG

IE2 High Efficiency Aluminum Motors, 55 kW, 500 V (3GAA251210-HEG)



General Information	
Product ID	3GAA251210-HEG
ABB Type Designation	M3AA 250SMA 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 55 kW, 500 V (3GAA251210-HEG)

Ordering	
ABB Type Designation	M3AA 250SMA 2
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	55kW, 2 Poles, Frame Size 250, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA251210-HEG)
Short Description	55kW, 2P, Frame Size 250, 3PH, 500V, 50Hz, IP55, IMB35/IM2001

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	2967 r/min	76.90 A	0.880	94.10 %	177.00 N·m	6.80
D	--	60 Hz	575 V	55.00 kW	3571 r/min	67.60 A	0.880	93.80 %	147.00 N·m	7.70

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%) 94.1 % Partial Load (75%) 94.4 % Partial Load (50%) 93.8 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 93.8 % Partial Load (75%) 93.5 % Partial Load (50%) 92.1 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	2
Two Speed Motor	No
Type of Duty	S1
Voltage Code	E

Mechanical

Frame Material	Aluminum
Frame Size	250
Bearing	6315-2Z/C3
Bearing NDE	6213-2Z/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	595 mm
Product Net Width	473 mm
Product Net Weight	304 kg
Gross Weight	314 kg

Environmental	
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	

