



PRODUCT-DETAILS

3GAA182420-HSG

IE2 High Efficiency Aluminum Motors, 22 kW,
400 V (3GAA182420-HSG)



General Information

Product ID	3GAA182420-HSG
ABB Type Designation	M3AA 180MLB 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 22 kW, 400 V (3GAA182420-HSG)

Ordering

ABB Type Designation	M3AA 180MLB 4
Invoice Description	M3AA 180MLB 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
Medium Description	22kW, 4 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA182420-HSG)
Short Description	22kW, 4P, Frame Size 180, 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	22.00 kW	1475 r/min	40.90 A	0.840	92.30 %	142.00 N·m	7.30
D	--	50 Hz	230 V	22.00 kW	1475 r/min	72.30 A	0.840	92.30 %	142.00 N·m	7.30
Y	--	50 Hz	415 V	22.00 kW	1477 r/min	39.80 A	0.830	92.50 %	142.00 N·m	7.80
Y	--	60 Hz	440 V	22.00 kW	1777 r/min	36.90 A	0.840	92.80 %	118.00 N·m	7.60
Y	--	60 Hz	460 V	22.00 kW	1780 r/min	35.70 A	0.830	93.10 %	118.00 N·m	8.30

Connection Configuration	Y
Temperature Class Default	--
Input Voltage (U _{in})	400 V
Frequency (f)	50 Hz
Output Power	22 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 92.3 % Partial Load (75%) 93.3 % Partial Load (50%) 93.2 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 92.8 % Partial Load (75%) 93.3 % Partial Load (50%) 92.7 %
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	180
Bearing	6310-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB35 IM2001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	726 mm
Product Net Height	405 mm
Product Net Width	354 mm
Product Net Weight	163 kg
Gross Weight	173 kg

Environmental

SCIP27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)

Classifications

UNSPSC26101100

Categories

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

