



PRODUCT-DETAILS

3GAA161420-HSG

IE2 High Efficiency Aluminum Motors, 15 kW,  
400 V (3GAA161420-HSG)



General Information

Product ID	3GAA161420-HSG
ABB Type Designation	M3AA 160MLB 2
Catalog Description	IE2 High Efficiency Aluminum Motors, 15 kW, 400 V (3GAA161420-HSG)

Ordering

ABB Type Designation	M3AA 160MLB 2
Invoice Description	M3AA 160MLB 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) Poland (PL)
Customs Tariff Number	85015230
Replaced Product ID (OLD)	3GAA161036-HSG
Medium Description	15kW, 2 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GAA161420-HSG)
Short Description	15kW, 2P, Frame Size 160, 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	15.00 kW	2934 r/min	26.00 A	0.900	91.50 %	48.80 N·m	7.50
D	--	50 Hz	230 V	15.00 kW	2934 r/min	45.90 A	0.900	91.50 %	48.80 N·m	7.50
Y	--	50 Hz	415 V	15.00 kW	2941 r/min	25.20 A	0.900	91.70 %	48.80 N·m	8.10
Y	--	60 Hz	440 V	15.00 kW	3539 r/min	23.50 A	0.900	91.80 %	40.40 N·m	7.90
Y	--	60 Hz	460 V	15.00 kW	3545 r/min	22.40 A	0.900	92.10 %	40.40 N·m	8.70

Connection Configuration	Y
Temperature Class	--
Default	
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	15 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 91.5 % Partial Load (75%) 92.5 % Partial Load (50%) 92.2 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 91.8 % Partial Load (75%) 92.2 % Partial Load (50%) 91.4 %
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	S

Mechanical

Frame Material	Aluminum
Frame Size	160
Bearing	6309-2Z/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	584 mm
Product Net Height	370 mm
Product Net Width	310.5 mm
Product Net Weight	105 kg
Gross Weight	115 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

