

PRODUCT-DETAILS

3GAA164410-BDK

IE3 Premium Efficiency Aluminum Motors, 4 kW, 400 V (3GAA164410-BDK)



General Information	
Product ID	3GAA164410-BDK
ABB Type Designation	M3AA 160MLA 8
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 4 kW, 400 V (3GAA164410-BDK)

Ordering	
ABB Type Designation	M3AA 160MLA 8
Invoice Description	M3AA 160MLA 8
Product Name	3-Phase squirrel cage motor
Product Type	3AA3_M3AA_IE3_AA
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Finland (FI) China (CN)
Customs Tariff Number	85015220
Medium Description	4kW, 8 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA164410-BDK)
Short Description	4kW, 8P, Frame Size 160, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	4.00 kW	734 r/min	5.90 A	0.650	84.80 %	52.00 N·m	4.50
D	--	50 Hz	400 V	4.00 kW	734 r/min	10.30 A	0.650	84.80 %	52.00 N·m	4.50
Y	--	50 Hz	660 V	4.00 kW	731 r/min	5.90 A	0.690	84.80 %	52.20 N·m	4.20
D	--	50 Hz	380 V	4.00 kW	731 r/min	10.30 A	0.690	84.80 %	52.20 N·m	4.20
D	--	50 Hz	415 V	4.00 kW	736 r/min	10.30 A	0.630	84.80 %	51.90 N·m	4.70
D	--	60 Hz	460 V	4.00 kW	886 r/min	9.19 A	0.630	86.50 %	43.10 N·m	5.00

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U _{in})	400 V
Frequency (f)	50 Hz
Output Power	4 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 84.8 % Partial Load (75%) 84.7 % Partial Load (50%) 82.4 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 86.5 % Partial Load (75%) 86.1 % Partial Load (50%) 83.5 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	8
Two Speed Motor	No
Type of Duty	S1
Voltage Code	D

Mechanical

Frame Material	Aluminum
Frame Size	160
Bearing	6309-2Z/C3
Bearing NDE	6209-2Z/C3
IM Class	IMB5 IM3001
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 mm
Product Net Weight	94 kg

Gross Weight	104 kg
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Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
SCIP	27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)

Classifications

UNSPSC	26101100
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Categories

Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Aluminum Motors

