

PRODUCT-DETAILS

3GAA162430-BDG

IE2 High Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA162430-BDG)



General Information	
Product ID	3GAA162430-BDG
ABB Type Designation	M3AA 160MLC 4
Catalog Description	IE2 High Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA162430-BDG)

Ordering	
ABB Type Designation	M3AA 160MLC 4
Invoice Description	M3AA 160MLC 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) China (CN) Poland (PL)
Customs Tariff Number	85015230
Replaced Product ID (OLD)	3GAA162033-BDG
Stocked At	Menden, Germany

(Warehouses)	
Medium Description	18.5kW, 4 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA162430-BDG)
Short Description	18.5kW, 4P, 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	18.50 kW	1469 r/min	20.10 A	0.840	91.40 %	120.00 N-m	7.60	
D	--	50 Hz	400 V	18.50 kW	1469 r/min	34.70 A	0.840	91.40 %	120.00 N-m	7.60	
D	--	50 Hz	415 V	18.50 kW	1472 r/min	34.20 A	0.820	91.70 %	120.00 N-m	7.10	
D	--	60 Hz	440 V	18.50 kW	1771 r/min	30.90 A	0.850	92.30 %	99.70 N-m	8.10	
D	--	60 Hz	460 V	18.50 kW	1774 r/min	30.20 A	0.830	92.40 %	99.50 N-m	8.70	
Connection Configuration										D	
Temperature Class Default										--	
Input Voltage (U _{in})										400 V	
Frequency (f)										50 Hz	
Output Power										18.5 kW	
Altitude										1000 m	
Ambient Temperature										40 °C	
IC Class										IC411	
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 91.4 % Partial Load (75%) 92.5 % Partial Load (50%) 92.3 %	
IE Class Data (60 Hz)										IE Class IE1 Full Load (100%) 92.3 % Partial Load (75%) 92.8 % Partial Load (50%) 92.3 %	
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	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	681 mm
Product Net Height	370 mm
Product Net Width	310 mm
Product Net Weight	127 kg
Gross Weight	137 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	

