

PRODUCT-DETAILS

# 3GAA224210-BDK

## IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA224210-BDK)



General Information	
Product ID	3GAA224210-BDK
ABB Type Designation	M3AA 225SMA 8
Catalog Description	IE3 Premium Efficiency Aluminum Motors, 18.5 kW, 400 V (3GAA224210-BDK)

Ordering	
ABB Type Designation	M3AA 225SMA 8
Invoice Description	M3AA 225SMA 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) Poland (PL)
Customs Tariff Number	85015230
Medium Description	18.5kW, 8 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA224210-BDK)
Short Description	18.5kW, 8P, Frame Size 225, 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	736 r/min	23.00 A	0.740	90.10 %	240.00 N·m	5.20
D	--	50 Hz	400 V	18.50 kW	736 r/min	39.80 A	0.740	90.10 %	240.00 N·m	5.20
Y	--	50 Hz	660 V	18.50 kW	735 r/min	23.80 A	0.750	90.10 %	240.00 N·m	4.70
D	--	50 Hz	380 V	18.50 kW	735 r/min	41.20 A	0.750	90.10 %	240.00 N·m	4.70
D	--	50 Hz	415 V	18.50 kW	737 r/min	39.20 A	0.720	90.10 %	240.00 N·m	5.60
D	--	60 Hz	460 V	18.50 kW	890 r/min	35.10 A	0.720	90.20 %	198.00 N·m	5.90
Connection Configuration										D
Temperature Class Default										--
Input Voltage (U <sub>in</sub> )										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 IE3 Full Load (100%) 90.1 % Partial Load (75%) 90.4 % Partial Load (50%) 89.6 %
IE Class Data (60 Hz)										IE Class IE3 Full Load (100%) 90.2 % Partial Load (75%) 90.3 % Partial Load (50%) 89.0 %
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	225
Bearing	6313-2Z/C3
Bearing NDE	6212-2Z/C3
IM Class	IMB5 IM3001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
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Product Net Depth / Length	880 mm
Product Net Height	553 mm
Product Net Width	418 mm
Product Net Weight	266 kg
Gross Weight	276 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
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Categories

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

