



PRODUCT-DETAILS

3GBA222220-ASC
IE2 High Efficiency Cast Iron Motors, 45 kW, 400 V (3GBA222220-ASC)



General Information

Product ID	3GBA222220-ASC
ABB Type Designation	M2BAX 225SMB 4
Catalog Description	IE2 High Efficiency Cast Iron Motors, 45 kW, 400 V (3GBA222220-ASC)

Ordering

ABB Type Designation	M2BAX 225SMB 4
Invoice Description	M2BAX 225SMB 4
Product Name	3-Phase squirrel cage motor
Product Type	EBA2__M2BAX_CI
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	China (CN) Poland (PL)
Customs Tariff Number	85015290
Replaced Product ID (OLD)	3GBA222044-ASG
Stocked At (Warehouses)	Menden, Germany

	Shanghai, China
Medium Description	45kW, 4 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GBA222220-ASC)
Short Description	45kW, 4P, Frame Size 225, 3PH, 400V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	400 V	45.00 kW	1480 r/min	85.50 A	0.820	93.10 %	290.40 N·m	7.70
D	--	50 Hz	230 V	45.00 kW	1480 r/min	149.00 A	0.820	93.10 %	291.00 N·m	7.70
Y	--	50 Hz	380 V	45.00 kW	1477 r/min	88.10 A	0.830	93.10 %	291.00 N·m	7.20
D	--	50 Hz	220 V	45.00 kW	1477 r/min	152.00 A	0.830	93.10 %	291.00 N·m	7.20
Y	--	60 Hz	440 V	45.00 kW	1780 r/min	76.30 A	0.830	93.60 %	241.48 N·m	8.70
Y	--	60 Hz	460 V	45.00 kW	1782 r/min	74.70 A	0.810	93.60 %	241.23 N·m	9.10
Connection Configuration										Y
Temperature Class Default										--
Input Voltage (U _{in})										400 V
Frequency (f)										50 Hz
Output Power										45 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 93.1 % Partial Load (75%) 93.3 % Partial Load (50%) 92.8 %
IE Class Data (60 Hz)										IE Class IE2 Full Load (100%) 93.6 % Partial Load (75%) 93.4 % Partial Load (50%) 92.4 %
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	Cast Iron
Frame Size	225
Bearing	6213-2Z/C3
Bearing NDE	6210-2Z/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth /	854 mm

Length	
Product Net Height	544 mm
Product Net Width	435 mm
Product Net Weight	292 kg
Gross Weight	302 kg

Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
SCIP	d19446d4-4db6-4ddb-826d-2341a0f7dd46 Finland (FI)

Classifications

UNSPSC	26101100
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Categories

Motors and Generators → IEC Low Voltage AC Motors → General Performance Motors → IE2 High Efficiency Cast Iron Motors

