



 PRODUCT-DETAILS

3GBA221210-ADC

IE2 High Efficiency Cast Iron Motors, 45 kW, 400 V (3GBA221210-ADC)



Submitted by TECO Group

General Information

Product ID	3GBA221210-ADC
ABB Type Designation	M2BAX 225SMA 2
Catalog Description	IE2 High Efficiency Cast Iron Motors, 45 kW, 400 V (3GBA221210-ADC)

Ordering

ABB Type Designation	M2BAX 225SMA 2
Invoice Description	M2BAX 225SMA 2
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
Stocked At (Warehouses)	Menden, Germany Shanghai, China

Medium Description	45kW, 2 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure,
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IMB3/IM1001 Mounting (3GBA221210-ADC)

Short Description 45kW, 2P, 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	690 V	45.00 kW	2962 r/min	46.70 A	0.860	92.90 %	145.30 N·m	8.80
D	--	50 Hz	400 V	45.00 kW	2962 r/min	80.60 A	0.860	92.90 %	145.30 N·m	8.80
Y	--	50 Hz	660 V	45.00 kW	2955 r/min	47.90 A	0.880	92.90 %	145.60 N·m	8.20
D	--	50 Hz	380 V	45.00 kW	2955 r/min	83.20 A	0.880	92.90 %	145.60 N·m	8.20
D	--	60 Hz	440 V	45.00 kW	3561 r/min	70.50 A	0.880	93.00 %	120.77 N·m	9.50
D	--	60 Hz	460 V	45.00 kW	3565 r/min	70.60 A	0.880	93.00 %	120.65 N·m	10.80

Connection Configuration	D
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%) 92.9 % Partial Load (75%) 92.8 % Partial Load (50%) 92.1 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 93.0 % Partial Load (75%) 92.6 % Partial Load (50%) 91.5 %
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	D

Mechanical

Frame Material	Cast Iron
Frame Size	225
Bearing	6213-2Z/C3
Bearing NDE	6210-2Z/C3
Lubrication	For life
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	824 mm

Product Net Height	561 mm
Product Net Width	435 mm
Product Net Weight	275 kg
Gross Weight	285 kg

Environmental

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

Classifications

Standards	IEC 60034-1
UNSPSC	26101100

Categories

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

