



PRODUCT-DETAILS

3GBA182420-ADC

IE2 High Efficiency Cast Iron Motors, 22 kW,
400 V (3GBA182420-ADC)



General Information	
Product ID	3GBA182420-ADC
ABB Type Designation	M2BAX 180MLB 4
Catalog Description	IE2 High Efficiency Cast Iron Motors, 22 kW, 400 V (3GBA182420-ADC)

Ordering	
ABB Type Designation	M2BAX 180MLB 4
Invoice Description	M2BAX 180MLB 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	Poland (PL) China (CN)
Customs Tariff Number	85015230
Stocked At	Menden, Germany

(Warehouses)	Shanghai, China
Medium Description	22kW, 4 Poles, Frame Size 180, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GBA182420-ADC)
Short Description	22kW, 4P, Frame Size 180, 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	22.00 kW	1472 r/min	26.00 A	0.770	91.60 %	143.00 N·m	9.20
D	--	50 Hz	400 V	22.00 kW	1472 r/min	45.00 A	0.770	91.60 %	143.00 N·m	9.20
Y	--	50 Hz	660 V	22.00 kW	1468 r/min	26.10 A	0.810	91.60 %	143.00 N·m	8.70
D	--	50 Hz	380 V	22.00 kW	1468 r/min	45.20 A	0.810	91.60 %	143.00 N·m	8.70
D	--	60 Hz	440 V	22.00 kW	1773 r/min	39.40 A	0.790	92.40 %	118.42 N·m	10.20
D	--	60 Hz	460 V	22.00 kW	1776 r/min	39.30 A	0.760	92.40 %	118.25 N·m	10.70
Connection Configuration										D
Temperature Class Default										--
Input Voltage (U _{in})										400 V
Frequency (f)										50 Hz
Output Power										22 kW
Altitude										1000 m
Ambient Temperature										40 °C
IC Class										IC411
IE Class Data (50 Hz)										IE Class IE2 Full Load (100%) 91.6 % Partial Load (75%) 91.3 % Partial Load (50%) 90.2 %
IE Class Data (60 Hz)										IE Class IE2 Full Load (100%) 92.4 % Partial Load (75%) 91.6 % Partial Load (50%) 90.0 %
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	Cast Iron
Frame Size	180
Bearing	6210-2Z/C3
Bearing NDE	6209-2Z/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	683 mm
Product Net Height	433 mm
Product Net Width	340 mm
Product Net Weight	169 kg
Gross Weight	179 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

