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**PRODUCT-DETAILS**

# 3GBA312230-HDL

## (3GBA312230-HDL)



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**General Information**

Product ID	3GBA312230-HDL
ABB Type Designation	M2BA 315SMC 4
Catalog Description	(3GBA312230-HDL)

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**Ordering**

ABB Type Designation	M2BA 315SMC 4
Invoice Description	M2BA 315SMC 4
Product Name	3-Phase squirrel cage motor
Product Type	2BA2_M2BA_IE2_CI
Made To Order	No
Minimum Order Quantity	1 piece
Selling Unit of Measure	piece
Country of Origin	China (CN) Poland (PL)
Customs Tariff Number	85015381

## Electrical

### Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	160.00 kW	1487 r/min	166.00 A	0.850	94.90 %	1027.00 N-m	7.20
D	--	50 Hz	400 V	160.00 kW	1487 r/min	288.00 A	0.850	94.90 %	1027.00 N-m	7.20
Y	--	50 Hz	660 V	160.00 kW	1485 r/min	172.00 A	0.860	94.90 %	1027.00 N-m	6.60
D	--	50 Hz	380 V	160.00 kW	1485 r/min	298.00 A	0.860	94.90 %	1027.00 N-m	6.60
D	--	60 Hz	440 V	160.00 kW	1788 r/min	260.00 A	0.850	95.00 %	854.67 N-m	7.40
D	--	60 Hz	460 V	160.00 kW	1789 r/min	252.00 A	0.840	95.00 %	854.14 N-m	8.00

Temperature Class

Default

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Altitude

1000 m

Ambient Temperature

40 °C

IC Class

IC411

IE Class Data (50 Hz)

IE Class IE2

Full Load (100%) 94.9 %

Partial Load (75%) 95.0 %

Partial Load (50%) 94.2 %

IE Class Data (60 Hz)

IE Class IE2

Full Load (100%) 95.0 %

Partial Load (75%) 94.6 %

Partial Load (50%) 93.4 %

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

D

## Mechanical

Frame Material

Cast Iron

Frame Size

315

Bearing

6219/C3

Bearing NDE

6217/C3

Lubrication

Regreasable

IM Class

IMB35 IM2001

Terminator Box Location

Top

## Dimensions

Package Level 1 Units

1 pallet (lift)

Product Net Weight

870 kg

Gross Weight

890 kg

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## Environmental

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WEEE Category

4. Large Equipment (Any External Dimension More Than 50 cm)

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## Classifications

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Standards

IEC 60034-1

UNSPSC

26101100

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## Categories

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

