

PRODUCT-DETAILS

## 3GBA311230-ADH

IE2 High Efficiency Cast Iron Motors, 160 kW,  
400 V (3GBA311230-ADH)



### General Information

Product ID	3GBA311230-ADH
ABB Type Designation	M2BAX 315SMC 2
Catalog Description	IE2 High Efficiency Cast Iron Motors, 160 kW, 400 V (3GBA311230-ADH)

### Ordering

ABB Type Designation	M2BAX 315SMC 2
Invoice Description	M2BAX 315SMC 2
Product Name	3-Phase squirrel cage motor
Product Type	EBA2_M2BAX_CI
Made To Order	No
Minimum Order Quantity	1 piece
Selling Unit of Measure	piece
Country of Origin	China (CN)
Customs Tariff Number	85015381
Replaced Product ID (OLD)	3GBA311230-ADL
Medium Description	160kW, 2 Poles, Frame Size 315, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GBA311230-ADH)
Short Description	160kW, 2P, Frame Size 315, 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	160.00 kW	2976 r/min	157.00 A	0.900	94.80 %	513.49 N-m	7.60
D	--	50 Hz	400 V	160.00 kW	2976 r/min	269.00 A	0.900	94.80 %	513.45 N-m	7.70
Y	--	50 Hz	660 V	160.00 kW	2973 r/min	160.00 A	0.920	94.80 %	513.92 N-m	7.90
D	--	50 Hz	380 V	160.00 kW	2973 r/min	279.00 A	0.920	94.80 %	513.95 N-m	7.90
D	--	60 Hz	440 V	160.00 kW	3576 r/min	238.00 A	0.930	95.00 %	427.27 N-m	9.10
D	--	60 Hz	460 V	160.00 kW	3578 r/min	230.00 A	0.920	95.00 %	427.01 N-m	10.00

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	160 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 94.8 % Partial Load (75%) 95.0 % Partial Load (50%) 94.4 %
IE Class Data (60 Hz)	IE Class IE2 Full Load (100%) 95.0 % Partial Load (75%) 94.8 % Partial Load (50%) 93.7 %
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	315
Bearing	6316/C3
Bearing NDE	6316/C3
IM Class	IMB3 IM1001
Terminator Box Location	Top

## Dimensions

Package Level 1 Units	1 pallet (lift)
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Product Net Depth / Length	1216 mm
Product Net Height	849 mm
Product Net Width	644 mm
Product Net Weight	900 kg
Gross Weight	920 kg

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## Environmental

SCIP	d19446d4-4db6-4ddb-826d-2341a0f7dd46 Finland (FI)
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## 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

