



## PRODUCT-DETAILS

## 3GBP312420-ADM

### IE4 Super Premium Efficiency Cast Iron Motors, 160 kW, 400 V (3GBP312420-ADM)



#### General Information

Product ID:	3GBP312420-ADM
ABB Type Designation:	M3BP 315MLB 4
Catalog Description:	IE4 Super Premium Efficiency Cast Iron Motors, 160 kW, 400 V (3GBP312420-ADM)
Display Name:	3GBP312420-ADM

#### Ordering

ABB Type Designation:	M3BP 315MLB 4
Invoice Description:	M3BP 315MLB 4
Product Name:	3-Phase squirrel cage motor
Product Type:	3BP4__M3BP_IE4_CI
Country of Origin:	Finland China India Poland
Customs Tariff Number:	85015381

**Medium Description:** 160kW, 4 Poles, Frame Size 315, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GBP312420-ADM)

**Short Description:** 160kW, 4P, Frame Size 315, 3PH, 400V, 50Hz, IP55, IMB3/IM1001

### Electrical

Conn	Temp Class	Network Freq	Network Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
Y	--	50 Hz	690 V	160.00 kW	1490 r/min	161.00 A	0.860	96.60 %	1026.00 N-m	7.90
D	--	50 Hz	400 V	160.00 kW	1490 r/min	278.00 A	0.860	96.60 %	1026.00 N-m	7.90
D	--	50 Hz	415 V	160.00 kW	1490 r/min	274.00 A	0.840	96.60 %	1025.00 N-m	8.60
D	--	60 Hz	460 V	160.00 kW	1791 r/min	241.00 A	0.860	96.50 %	853.00 N-m	9.00

<b>Connection Configuration:</b>	D
<b>Temperature Class Default:</b>	--
<b>Input Voltage (U<sub>in</sub>):</b>	400 V
<b>Frequency (f):</b>	50 Hz
<b>Output Power:</b>	160 kW
<b>Altitude:</b>	1000 m
<b>Ambient Temperature:</b>	40 °C
<b>IC Class:</b>	IC411
<b>IE Class Data (50 Hz):</b>	IE Class IE4 Full Load (100%) 96.6 % Partial Load (75%) 96.7 % Partial Load (50%) 96.4 %
<b>IE Class Data (60 Hz):</b>	IE Class IE4 Full Load (100%) 96.5 % Partial Load (75%) 96.5 % Partial Load (50%) 95.9 %
<b>IP Class:</b>	IP55
<b>Insulation Class:</b>	ICLF
<b>Direction of Rotation:</b>	Both sides
<b>Number of Poles (High):</b>	4
<b>Two Speed Motor:</b>	No
<b>Type of Duty:</b>	S1
<b>Voltage Code:</b>	D

### Mechanical

<b>Frame Material:</b>	Cast Iron
<b>Frame Size:</b>	315
<b>Bearing:</b>	6319/C3
<b>Bearing NDE:</b>	6316/C3

<b>IM Class:</b>	IMB3 IM1001
<b>Terminator Box Location:</b>	Top

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## Dimensions

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<b>Product Net Depth / Length:</b>	1313 mm
<b>Product Net Height:</b>	732 mm
<b>Product Net Width:</b>	590 mm
<b>Product Net Weight:</b>	1220 kg
<b>Gross Weight:</b>	1240 kg

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## Environmental

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<b>WEEE Category:</b>	4. Large Equipment (Any External Dimension More Than 50 cm)
<b>SCIP:</b>	54c45c7b-7581-40ab-b615-c1dcb277d8a7 Finland

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## External Classifications and Standards

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<b>UNSPSC:</b>	26101100
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## Categories

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Products > Motors and Generators > IEC Low Voltage AC Motors > Process Performance Motors > IE4 Super Premium Efficiency Cast Iron Motors

