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 PRODUCT-DETAILS

## 3GBP164430-RDG

### IE2 High Efficiency Cast Iron Motors, 7.5 kW, 400 V (3GBP164430-RDG)




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**General Information**

Product ID	3GBP164430-RDG
ABB Type Designation	M3BP 160MLC 8
Catalog Description	IE2 High Efficiency Cast Iron Motors, 7.5 kW, 400 V (3GBP164430-RDG)

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**Ordering**

ABB Type Designation	M3BP 160MLC 8
Invoice Description	M3BP 160MLC 8
Product Name	3-Phase squirrel cage motor
Product Type	3BP2_M3BP_IE2_CI
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Finland (FI) Poland (PL)
Customs Tariff Number	85015220
Medium Description	7.5kW, 8 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure,

IMB3/IM1001 Mounting (3GBP164430-RDG)

Short Description 7.5kW, 8P, Frame Size 160, 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	7.50 kW	727 r/min	11.20 A	0.650	86.00 %	98.50 N·m	4.70
D	--	50 Hz	400 V	7.50 kW	727 r/min	19.30 A	0.650	86.00 %	98.50 N·m	4.70
D	--	50 Hz	415 V	7.50 kW	730 r/min	19.10 A	0.630	86.50 %	98.50 N·m	4.90
D	--	60 Hz	440 V	7.50 kW	879 r/min	17.50 A	0.640	87.40 %	81.40 N·m	4.70
D	--	60 Hz	460 V	7.50 kW	882 r/min	17.00 A	0.630	87.70 %	81.20 N·m	5.10

Connection Configuration	D
Temperature Class Default	--
Input Voltage (U <sub>in</sub> )	400 V
Frequency (f)	50 Hz
Output Power	7.5 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE2 Full Load (100%) 86.0 % Partial Load (75%) 87.3 % Partial Load (50%) 86.5 %
IE Class Data (60 Hz)	IE Class IE1 Full Load (100%) 87.4 % Partial Load (75%) 87.9 % Partial Load (50%) 86.7 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	8
Two Speed Motor	No
Type of Duty	S1
Voltage Code	D

## Mechanical

Frame Material	Cast Iron
Frame Size	160
Bearing	6309/C3
Bearing NDE	6209/C3
IM Class	IMB3 IM1001
Terminator Box Location	D-End top

## Dimensions

Package Level 1 Units	1 pallet (lift)
Product Net Depth / Length	681 mm
Product Net Height	421 mm

Product Net Width	338 mm
Product Net Weight	184 kg
Gross Weight	194 kg

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## Environmental

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

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## Classifications

Standards	IEC 60034-1
UNSPSC	26101100

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## Categories

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

