

PRODUCT-DETAILS

# 3GBA161420-BDD

## IE3 Premium Efficiency Cast Iron Motors, 15 kW, 400 V (3GBA161420-BDD)



| General Information  |  |
|----------------------|--|
| Product ID           | 3GBA161420-BDD   |
| ABB Type Designation | M2BAX 160MLB 2   |
| Catalog Description  | IE3 Premium Efficiency Cast Iron Motors, 15 kW, 400 V (3GBA161420-BDD) |

| Ordering                   |   |
|----------------------------|---|
| ABB Type Designation       | M2BAX 160MLB 2  |
| Invoice Description        | M2BAX 160MLB 2  |
| Product Name               | 3-Phase squirrel cage motor   |
| Product Type               | EBA3__M2BAX_CI  |
| Made To Order              | No  |
| Minimum Order Quantity     | 1 piece   |
| Order Multiple             | 1 piece   |
| Selling Unit of Measure    | piece   |
| Country of Origin          | China (CN)<br>Poland (PL)   |
| Customs Tariff Number      | 85015230  |
| Stocked At<br>(Warehouses) | Menden, Germany   |
| Medium Description         | 15kW, 2 Poles, Frame Size 160, 3 Phases, 400V, 50Hz, IP55 Enclosure,<br>IMB5/IM3001 Mounting (3GBA161420-BDD) |

Short Description

15kW, 2P, Frame Size 160, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

| Conn | Temp Class | Freq  | Voltage | Power    | Speed      | Current | Power Factor | Efficiency | Torque    | IS/IN |
|------|------------|-------|---------|----------|------------|---------|--------------|------------|-----------|-------|
| Y    | --         | 50 Hz | 690 V   | 15.00 kW | 2947 r/min | 15.40 A | 0.880        | 91.90 %    | 48.49 N·m | 8.20  |
| D    | --         | 50 Hz | 400 V   | 15.00 kW | 2947 r/min | 26.50 A | 0.880        | 91.90 %    | 48.49 N·m | 8.20  |
| Y    | --         | 50 Hz | 660 V   | 15.00 kW | 2939 r/min | 15.80 A | 0.900        | 91.90 %    | 48.59 N·m | 7.90  |
| D    | --         | 50 Hz | 380 V   | 15.00 kW | 2939 r/min | 27.50 A | 0.900        | 91.90 %    | 48.59 N·m | 7.90  |
| D    | --         | 60 Hz | 440 V   | 15.00 kW | 3550 r/min | 23.60 A | 0.900        | 91.00 %    | 40.31 N·m | 7.80  |
| D    | --         | 60 Hz | 460 V   | 15.00 kW | 3554 r/min | 22.70 A | 0.890        | 91.00 %    | 40.27 N·m | 8.50  |

|                                  |   |
|----------------------------------|---|
| Connection Configuration         | D   |
| Temperature Class Default        | --  |
| Input Voltage (U <sub>in</sub> ) | 400 V   |
| Frequency (f)                    | 50 Hz   |
| Output Power                     | 15 kW   |
| Altitude                         | 1000 m  |
| Ambient Temperature              | 40 °C   |
| IC Class                         | IC411   |
| IE Class Data (50 Hz)            | IE Class IE3<br>Full Load (100%) 91.9 %<br>Partial Load (75%) 92.2 %<br>Partial Load (50%) 91.8 % |
| IE Class Data (60 Hz)            | IE Class IE3<br>Full Load (100%) 91.0 %<br>Partial Load (75%) 90.4 %<br>Partial Load (50%) 89.6 % |
| 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              | 160         |
| Bearing                 | 6209-2Z/C3  |
| Bearing NDE             | 6209-2Z/C3  |
| IM Class                | IMB5 IM3001 |
| Terminator Box Location | D-End top   |

| Dimensions                 |                 |
|----------------------------|-----------------|
| Package Level 1 Units      | 0 pallet (lift) |
| Product Net Depth / Length | 586.5 mm        |
| Product Net Height         | 413 mm          |
| Product Net Width          | 310 mm          |
| Product Net Weight         | 126 kg          |
| Gross Weight               | 136 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 → IE3 Premium Efficiency Cast Iron Motors

