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 PRODUCT-DETAILS

# 3GBP351410-BDK

## IE3 Premium Efficiency Cast Iron Motors, 355 kW, 400 V (3GBP351410-BDK)




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**General Information**

|                      |   |
|----------------------|---|
| Product ID           | 3GBP351410-BDK  |
| ABB Type Designation | M3BP 355MLA 2   |
| Catalog Description  | IE3 Premium Efficiency Cast Iron Motors, 355 kW, 400 V (3GBP351410-BDK) |

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**Ordering**

|                         |   |
|-------------------------|---|
| ABB Type Designation    | M3BP 355MLA 2   |
| Invoice Description     | M3BP 355MLA 2   |
| Product Name            | 3-Phase squirrel cage motor   |
| Product Type            | 3BP3__M3BP_IE3_CI   |
| Made To Order           | No  |
| Minimum Order Quantity  | 1 piece   |
| Selling Unit of Measure | piece   |
| Country of Origin       | Finland (FI)<br>China (CN)<br>India (IN)  |
| Customs Tariff Number   | 85015381  |
| Medium Description      | 355kW, 2 Poles, Frame Size 355, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GBP351410-BDK) |
| Short Description       | 355kW, 2P, Frame Size 355, 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   | 355.00 kW | 2984 r/min | 350.00 A | 0.880        | 95.80 %    | 1136.00 N·m | 7.20  |
| D    | --         | 50 Hz | 400 V   | 355.00 kW | 2984 r/min | 603.00 A | 0.880        | 95.80 %    | 1136.00 N·m | 7.20  |
| Y    | --         | 50 Hz | 660 V   | 355.00 kW | 2981 r/min | 361.00 A | 0.890        | 95.80 %    | 1136.00 N·m | 6.50  |
| D    | --         | 50 Hz | 380 V   | 355.00 kW | 2981 r/min | 628.00 A | 0.890        | 95.80 %    | 1137.00 N·m | 6.50  |
| D    | --         | 50 Hz | 415 V   | 355.00 kW | 2985 r/min | 588.00 A | 0.870        | 95.80 %    | 1135.00 N·m | 7.90  |
| D    | --         | 60 Hz | 460 V   | 355.00 kW | 3586 r/min | 528.00 A | 0.880        | 95.80 %    | 945.00 N·m  | 8.10  |

|                            |   |
|----------------------------|---|
| Connection Configuration   | D   |
| Temperature Class          | --  |
| Default                    |   |
| Input Voltage ( $U_{in}$ ) | 400 V   |
| Frequency (f)              | 50 Hz   |
| Output Power               | 355 kW  |
| Altitude                   | 1000 m  |
| Ambient Temperature        | 40 °C   |
| IC Class                   | IC411   |
| IE Class Data (50 Hz)      | IE Class IE3<br>Full Load (100%) 95.8 %<br>Partial Load (75%) 95.5 %<br>Partial Load (50%) 94.7 % |
| IE Class Data (60 Hz)      | IE Class IE3<br>Full Load (100%) 95.8 %<br>Partial Load (75%) 95.3 %<br>Partial Load (50%) 94.2 % |
| 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              | 355         |
| Bearing                 | 6316M/C3    |
| Bearing NDE             | 6316M/C3    |
| IM Class                | IMB5 IM3001 |
| Terminator Box Location | D-End top   |

## Dimensions

|                            |                 |
|----------------------------|-----------------|
| Package Level 1 Units      | 0 pallet (lift) |
| Product Net Depth / Length | 1514 mm         |
| Product Net Height         | 958 mm          |
| Product Net Width          | 700 mm          |
| Product Net Weight         | 2000 kg         |

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Gross Weight 2030 kg

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### Environmental

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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

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UNSPSC 26101100

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### Categories

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Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Cast Iron Motors

