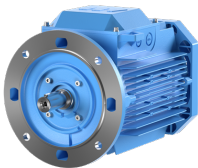


PRODUCT-DETAILS

# 3GAA111320-BSK338

## IE3 Premium Efficiency Aluminum Motors, 4 kW, 400 V (3GAA111320-BSK338)



| General Information  |   |
|----------------------|---|
| Product ID           | 3GAA111320-BSK338   |
| ABB Type Designation | M3AA 112MB 2  |
| Catalog Description  | IE3 Premium Efficiency Aluminum Motors, 4 kW, 400 V (3GAA111320-BSK338) |

| Ordering                |  |
|-------------------------|--|
| ABB Type Designation    | M3AA 112MB 2   |
| Invoice Description     | M3AA 112MB 2 / Ex ec IIC T3 Gc / Ex tc IIIB T125C Dc   |
| Product Name            | 3-Phase squirrel cage motor  |
| Product Type            | 3AA3__M3AA_IE3_AA  |
| Made To Order           | No   |
| Minimum Order Quantity  | 1 piece  |
| Order Multiple          | 1 piece  |
| Selling Unit of Measure | piece  |
| Country of Origin       | Romania (RO)   |
| Customs Tariff Number   | 85015220   |
| Stocked At (Warehouses) | Menden, Germany<br>Vittuone, Italy   |
| Medium Description      | 4kW, 2 Poles, Frame Size 112, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA111320-BSK338) |
| Short Description       | 4kW, 2P, Frame Size 112, 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 | 400 V   | 4.00 kW | 2888 r/min | 7.10 A  | 0.910        | 88.10 %    | 13.20 N·m | 8.40  |  |
| D                                | --         | 50 Hz | 230 V   | 4.00 kW | 2888 r/min | 12.30 A | 0.910        | 88.10 %    | 13.20 N·m | 8.40  |  |
| Y                                | --         | 50 Hz | 380 V   | 4.00 kW | 2874 r/min | 7.50 A  | 0.920        | 88.10 %    | 13.30 N·m | 7.60  |  |
| D                                | --         | 50 Hz | 220 V   | 4.00 kW | 2874 r/min | 13.00 A | 0.920        | 88.10 %    | 13.30 N·m | 7.60  |  |
| Y                                | --         | 50 Hz | 415 V   | 4.00 kW | 2897 r/min | 6.90 A  | 0.900        | 88.10 %    | 13.20 N·m | 9.00  |  |
| Y                                | --         | 60 Hz | 460 V   | 4.00 kW | 3500 r/min | 6.20 A  | 0.900        | 88.50 %    | 10.90 N·m | 10.00   |  |
| Connection Configuration         |            |       |         |         |            |         |              |            |           | Y   |  |
| Temperature Class Default        |            |       |         |         |            |         |              |            |           | --  |  |
| Input Voltage (U <sub>in</sub> ) |            |       |         |         |            |         |              |            |           | 400 V   |  |
| Frequency (f)                    |            |       |         |         |            |         |              |            |           | 50 Hz   |  |
| Output Power                     |            |       |         |         |            |         |              |            |           | 4 kW  |  |
| Altitude                         |            |       |         |         |            |         |              |            |           | 1000 m  |  |
| Ambient Temperature              |            |       |         |         |            |         |              |            |           | 40 °C   |  |
| IC Class                         |            |       |         |         |            |         |              |            |           | IC411   |  |
| IE Class Data (50 Hz)            |            |       |         |         |            |         |              |            |           | IE Class IE3<br>Full Load (100%) 88.1 %<br>Partial Load (75%) 89.4 %<br>Partial Load (50%) 89.6 % |  |
| IE Class Data (60 Hz)            |            |       |         |         |            |         |              |            |           | IE Class IE3<br>Full Load (100%) 88.5 %<br>Partial Load (75%) 88.9 %<br>Partial Load (50%) 87.9 % |  |
| 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                     |            |       |         |         |            |         |              |            |           | S   |  |

Mechanical

|                         |             |
|-------------------------|-------------|
| Frame Material          | Aluminum    |
| Frame Size              | 112         |
| Bearing                 | 6306-2Z/C3  |
| Bearing NDE             | 6205-2Z/C3  |
| IM Class                | IMB5 IM3001 |
| Terminator Box Location | D-End top   |

Dimensions

|                            |          |
|----------------------------|----------|
| Package Level 1 Units      | 0 carton |
| Product Net Depth / Length | 431 mm   |
| Product Net Height         | 260 mm   |
| Product Net Width          | 222 mm   |
| Product Net Weight         | 38 kg    |
| Gross Weight               | 43 kg    |

**Environmental**

|               |  |
|---------------|--|
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
|---------------|--|

**Classifications**

|        |          |
|--------|----------|
| UNSPSC | 26101100 |
|--------|----------|

**Categories**

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

