



PRODUCT-DETAILS

3GBA163410-AEF

IE3 Premium Efficiency Cast Iron Motors, 7.5 kW, 500 V (3GBA163410-AEF)



General Information

|                      |   |
|----------------------|---|
| Product ID           | 3GBA163410-AEF  |
| ABB Type Designation | M2BAX 160MLA 6  |
| Catalog Description  | IE3 Premium Efficiency Cast Iron Motors, 7.5 kW, 500 V (3GBA163410-AEF) |

Ordering

|                         |   |
|-------------------------|---|
| ABB Type Designation    | M2BAX 160MLA 6  |
| Invoice Description     | M2BAX 160MLA 6  |
| 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   | 85015220  |
| Medium Description      | 7.5kW, 6 Poles, Frame Size 160, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GBA163410-AEF) |
| Short Description       | 7.5kW, 6P, Frame Size 160, 3PH, 500V, 50Hz, IP55, IMB3/IM1001   |

Electrical

Electrical Data

| Conn                             | Temp Class | Freq  | Voltage | Power   | Speed      | Current | Power Factor | Efficiency | Torque    | IS/IN   |
|----------------------------------|------------|-------|---------|---------|------------|---------|--------------|------------|-----------|---|
| D                                | --         | 50 Hz | 500 V   | 7.50 kW | 979 r/min  | 12.60 A | 0.750        | 89.10 %    | 73.39 N·m | 7.60  |
| D                                | --         | 60 Hz | 575 V   | 7.50 kW | 1181 r/min | 11.20 A | 0.740        | 91.00 %    | 60.90 N·m | 8.60  |
| Connection Configuration         |            |       |         |         |            |         |              |            |           | D   |
| Temperature Class Default        |            |       |         |         |            |         |              |            |           | --  |
| Input Voltage (U <sub>in</sub> ) |            |       |         |         |            |         |              |            |           | 500 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 IE3<br>Full Load (100%) 89.1 %<br>Partial Load (75%) 89.5 %<br>Partial Load (50%) 88.9 % |
| IE Class Data (60 Hz)            |            |       |         |         |            |         |              |            |           | IE Class IE3<br>Full Load (100%) 91.0 %<br>Partial Load (75%) 90.6 %<br>Partial Load (50%) 89.7 % |
| IP Class                         |            |       |         |         |            |         |              |            |           | IP55  |
| Insulation Class                 |            |       |         |         |            |         |              |            |           | ICLF  |
| Direction of Rotation            |            |       |         |         |            |         |              |            |           | Both sides  |
| Number of Poles (High)           |            |       |         |         |            |         |              |            |           | 6   |
| Two Speed Motor                  |            |       |         |         |            |         |              |            |           | No  |
| Type of Duty                     |            |       |         |         |            |         |              |            |           | S1  |
| Voltage Code                     |            |       |         |         |            |         |              |            |           | E   |

Mechanical

|                         |             |
|-------------------------|-------------|
| Frame Material          | Cast Iron   |
| Frame Size              | 160         |
| Bearing                 | 6209-2Z/C3  |
| Bearing NDE             | 6209-2Z/C3  |
| IM Class                | IMB3 IM1001 |
| Terminator Box Location | D-End top   |

Dimensions

|                            |                 |
|----------------------------|-----------------|
| Package Level 1 Units      | 0 pallet (lift) |
| Product Net Depth / Length | 626.5 mm        |
| Product Net Height         | 413 mm          |
| Product Net Width          | 310 mm          |
| Product Net Weight         | 131 kg          |
| Gross Weight               | 141 kg          |

Environmental

|               |   |
|---------------|---|
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |
| SCIP          | d19446d4-4db6-4ddb-826d-2341a0f7dd46 Finland (FI)           |

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

| Categories   |
|--|
| Motors and Generators → IEC Low Voltage AC Motors → General Performance Motors → IE3 Premium Efficiency Cast Iron Motors |

