



PRODUCT-DETAILS

# 3GAA163410-AEG

## IE2 High Efficiency Aluminum Motors, 7.5 kW, 500 V (3GAA163410-AEG)



| General Information  |   |
|----------------------|---|
| Product ID           | 3GAA163410-AEG  |
| ABB Type Designation | M3AA 160MLA 6   |
| Catalog Description  | IE2 High Efficiency Aluminum Motors, 7.5 kW, 500 V (3GAA163410-AEG) |

| Ordering                  |   |
|---------------------------|---|
| ABB Type Designation      | M3AA 160MLA 6   |
| Invoice Description       | M3AA 160MLA 6   |
| Product Name              | 3-Phase squirrel cage motor   |
| Product Type              | 3AA2__M3AA_IE2_AA   |
| Made To Order             | No  |
| Minimum Order Quantity    | 1 piece   |
| Order Multiple            | 1 piece   |
| Selling Unit of Measure   | piece   |
| Country of Origin         | Finland (FI)<br>Poland (PL)   |
| Customs Tariff Number     | 85015220  |
| Replaced Product ID (OLD) | 3GAA163031-AEG  |
| Medium Description        | 7.5kW, 6 Poles, Frame Size 160, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA163410-AEG) |

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 | 975 r/min  | 12.60 A | 0.790        | 88.50 %    | 73.40 N·m | 7.40  |
| D    | --         | 60 Hz | 575 V   | 7.50 kW | 1179 r/min | 10.90 A | 0.770        | 89.60 %    | 60.70 N·m | 7.40  |

|                                  |   |
|----------------------------------|---|
| 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 IE2<br>Full Load (100%) 88.5 %<br>Partial Load (75%) 89.9 %<br>Partial Load (50%) 89.7 % |
| IE Class Data (60 Hz)            | IE Class IE2<br>Full Load (100%) 89.6 %<br>Partial Load (75%) 90.0 %<br>Partial Load (50%) 88.9 % |
| 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          | Aluminum    |
| Frame Size              | 160         |
| Bearing                 | 6309-2Z/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 | 584 mm          |
| Product Net Height         | 370 mm          |
| Product Net Width          | 310.5 mm        |
| Product Net Weight         | 98 kg           |
| Gross Weight               | 108 kg          |

| Environmental |   |
|---------------|---|
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |
| SCIP          | 27ac6190-e1ce-4080-8654-6552aaabbe58 Finland (FI)           |

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

| Categories   |
|--|
| Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE2 High Efficiency Aluminum Motors |

