



PRODUCT-DETAILS

3GAA201430-AEG

IE2 High Efficiency Aluminum Motors, 45 kW,  
500 V (3GAA201430-AEG)



General Information

|                      |  |
|----------------------|--|
| Product ID           | 3GAA201430-AEG   |
| ABB Type Designation | M3AA 200MLC 2  |
| Catalog Description  | IE2 High Efficiency Aluminum Motors, 45 kW, 500 V (3GAA201430-AEG) |

Ordering

|                              |   |
|------------------------------|---|
| ABB Type Designation         | M3AA 200MLC 2   |
| Invoice Description          | M3AA 200MLC 2   |
| 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        | 85015290  |
| Replaced Product ID<br>(OLD) | 3GAA201033-AEG  |
| Medium Description           | 45kW, 2 Poles, Frame Size 200, 3 Phases, 500V, 50Hz, IP55 Enclosure,<br>IMB3/IM1001 Mounting (3GAA201430-AEG) |
| Short Description            | 45kW, 2P, Frame Size 200, 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   | 45.00 kW | 2957 r/min | 64.20 A | 0.880        | 93.30 %    | 145.00 N·m | 8.10  |   |
| D                                | --         | 60 Hz | 575 V   | 45.00 kW | 3563 r/min | 55.80 A | 0.880        | 93.40 %    | 120.00 N·m | 9.20  |   |
| Connection Configuration         |            |       |         |          |            |         |              |            |            |       | D   |
| Temperature Class Default        |            |       |         |          |            |         |              |            |            |       | --  |
| Input Voltage (U <sub>in</sub> ) |            |       |         |          |            |         |              |            |            |       | 500 V   |
| Frequency (f)                    |            |       |         |          |            |         |              |            |            |       | 50 Hz   |
| Output Power                     |            |       |         |          |            |         |              |            |            |       | 45 kW   |
| Altitude                         |            |       |         |          |            |         |              |            |            |       | 1000 m  |
| Ambient Temperature              |            |       |         |          |            |         |              |            |            |       | 40 °C   |
| IC Class                         |            |       |         |          |            |         |              |            |            |       | IC411   |
| IE Class Data (50 Hz)            |            |       |         |          |            |         |              |            |            |       | IE Class IE2<br>Full Load (100%) 93.3 %<br>Partial Load (75%) 93.8 %<br>Partial Load (50%) 93.2 % |
| IE Class Data (60 Hz)            |            |       |         |          |            |         |              |            |            |       | IE Class IE2<br>Full Load (100%) 93.4 %<br>Partial Load (75%) 93.3 %<br>Partial Load (50%) 92.2 % |
| 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                     |            |       |         |          |            |         |              |            |            |       | E   |

Mechanical

|                         |             |
|-------------------------|-------------|
| Frame Material          | Aluminum    |
| Frame Size              | 200         |
| Bearing                 | 6312-2Z/C3  |
| Bearing NDE             | 6210-2Z/C3  |
| IM Class                | IMB3 IM1001 |
| Terminator Box Location | D-End top   |

Dimensions

|                            |                 |
|----------------------------|-----------------|
| Package Level 1 Units      | 0 pallet (lift) |
| Product Net Depth / Length | 821 mm          |
| Product Net Height         | 500 mm          |
| Product Net Width          | 386 mm          |
| Product Net Weight         | 225 kg          |
| Gross Weight               | 235 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 |

