

PRODUCT-DETAILS

# 3GAA102530-BFE

## IE2 High Efficiency Aluminum Motors, 2.2 kW, 500 V (3GAA102530-BFE)



| General Information  |   |
|----------------------|---|
| Product ID           | 3GAA102530-BFE  |
| ABB Type Designation | M3AA 100LC 4  |
| Catalog Description  | IE2 High Efficiency Aluminum Motors, 2.2 kW, 500 V (3GAA102530-BFE) |

| Ordering                  |   |
|---------------------------|---|
| ABB Type Designation      | M3AA 100LC 4  |
| Invoice Description       | M3AA 100LC 4  |
| 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) | 3GAA102313-BFE  |
| Medium Description        | 2.2kW, 4 Poles, Frame Size 100, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA102530-BFE) |

Short Description

2.2kW, 4P, Frame Size 100, 3PH, 500V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

| Conn | Temp Class | Freq  | Voltage | Power   | Speed      | Current | Power Factor | Efficiency | Torque    | IS/IN |
|------|------------|-------|---------|---------|------------|---------|--------------|------------|-----------|-------|
| Y    | --         | 50 Hz | 500 V   | 2.20 kW | 1450 r/min | 3.70 A  | 0.790        | 86.40 %    | 14.40 N·m | 7.30  |
| Y    | --         | 60 Hz | 575 V   | 2.20 kW | 1760 r/min | 3.30 A  | 0.750        | 87.60 %    | 11.90 N·m | 9.10  |

|                                  |   |
|----------------------------------|---|
| Connection Configuration         | Y   |
| Temperature Class Default        | --  |
| Input Voltage (U <sub>in</sub> ) | 500 V   |
| Frequency (f)                    | 50 Hz   |
| Output Power                     | 2.2 kW  |
| Altitude                         | 1000 m  |
| Ambient Temperature              | 40 °C   |
| IC Class                         | IC411   |
| IE Class Data (50 Hz)            | IE Class IE2<br>Full Load (100%) 86.4 %<br>Partial Load (75%) 86.2 %<br>Partial Load (50%) 84.1 % |
| IE Class Data (60 Hz)            | IE Class IE2<br>Full Load (100%) 87.6 %<br>Partial Load (75%) 87.0 %<br>Partial Load (50%) 84.3 % |
| IP Class                         | IP55  |
| Insulation Class                 | ICLF  |
| Direction of Rotation            | Both sides  |
| Number of Poles (High)           | 4   |
| Two Speed Motor                  | No  |
| Type of Duty                     | S1  |
| Voltage Code                     | F   |

Mechanical

|                         |             |
|-------------------------|-------------|
| Frame Material          | Aluminum    |
| Frame Size              | 100         |
| 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 | 351 mm   |
| Product Net Height         | 237 mm   |
| Product Net Width          | 200 mm   |
| Product Net Weight         | 25 kg    |

Gross Weight 30 kg

Environmental

WEEE Category 5. Small Equipment (No 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

