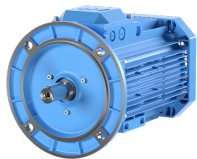




PRODUCT-DETAILS

3GAA102530-BDE

IE2 High Efficiency Aluminum Motors, 2.2 kW,  
400 V (3GAA102530-BDE)



General Information

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| Product ID           | 3GAA102530-BDE                                                      |
| ABB Type Designation | M3AA 100LC 4                                                        |
| Catalog Description  | IE2 High Efficiency Aluminum Motors, 2.2 kW, 400 V (3GAA102530-BDE) |

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>China (CN)<br>Poland (PL)<br>Romania (RO) |
| Customs Tariff Number     | 85015220                                                  |
| Replaced Product ID (OLD) | 3GAA102443-BDE<br>3GAA102313-BDE                          |
| Stocked At (Warehouses)   | Menden, Germany<br>Shanghai, China                        |

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Medium Description | 2.2kW, 4 Poles, Frame Size 100, 3 Phases, 400V, 50Hz, IP55 Enclosure, |
|--------------------|-----------------------------------------------------------------------|

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
|                   | IMB5/IM3001 Mounting (3GAA102530-BDE)                         |
| Short Description | 2.2kW, 4P, Frame Size 100, 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 | 690 V   | 2.20 kW | 1450 r/min | 2.69 A  | 0.790        | 86.40 %    | 14.40 N·m | 7.30  |
| D    | --         | 50 Hz | 400 V   | 2.20 kW | 1450 r/min | 4.60 A  | 0.790        | 86.40 %    | 14.40 N·m | 7.30  |
| D    | --         | 60 Hz | 460 V   | 2.20 kW | 1760 r/min | 4.20 A  | 0.750        | 87.50 %    | 11.90 N·m | 9.10  |

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| Connection Configuration         | D                                                                                                 |
| Temperature Class Default        | --                                                                                                |
| Input Voltage (U <sub>in</sub> ) | 400 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%) 87.5 %<br>Partial Load (75%) 86.9 %<br>Partial Load (50%) 84.2 % |
| 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                     | D                                                                                                 |

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

