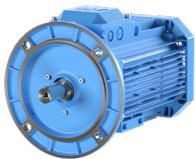




PRODUCT-DETAILS

# 3GAA071312-BSE

## IE2 High Efficiency Aluminum Motors, 0.55 kW, 400 V (3GAA071312-BSE)



| General Information  |                                                                      |
|----------------------|----------------------------------------------------------------------|
| Product ID           | 3GAA071312-BSE                                                       |
| ABB Type Designation | M3AA 71B 2                                                           |
| Catalog Description  | IE2 High Efficiency Aluminum Motors, 0.55 kW, 400 V (3GAA071312-BSE) |

| Ordering                       |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| ABB Type Designation           | M3AA 71B 2                                                                                                  |
| Invoice Description            | M3AA 71B 2                                                                                                  |
| Product Name                   | 3-Phase squirrel cage motor                                                                                 |
| Product Type                   | 3AA2__M3AA_IE2_AA                                                                                           |
| Country or Territory of Origin | China<br>Romania                                                                                            |
| Customs Tariff Number          | 85015100                                                                                                    |
| Stocked At (Warehouses)        | Menden, Germany<br>Sant Quirze del Vallés - BCN, Spain<br>Shanghai, China<br>Vittuone, Italy                |
| Medium Description             | 0.55kW, 2 Poles, Frame Size 71, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA071312-BSE) |

Short Description

0.55kW, 2P, Frame Size 71, 3PH, 400V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

| Conn | Temp Class | Network Freq | Network Voltage | Power   | Speed      | Current | Power Factor | Efficiency | Torque   | IS/IN |
|------|------------|--------------|-----------------|---------|------------|---------|--------------|------------|----------|-------|
| Y    | --         | 50 Hz        | 400 V           | 0.55 kW | 2790 r/min | 1.29 A  | 0.790        | 74.10 %    | 1.88 N·m | 5.10  |
| D    | --         | 50 Hz        | 230 V           | 0.55 kW | 2790 r/min | 2.24 A  | 0.790        | 74.10 %    | 1.88 N·m | 5.10  |
| Y    | --         | 60 Hz        | 460 V           | 0.55 kW | 3431 r/min | 1.13 A  | 0.760        | 74.00 %    | 1.53 N·m | 6.20  |

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| Connection Configuration         | Y                                                                                                 |
| Temperature Class Default        | --                                                                                                |
| Input Voltage (U <sub>in</sub> ) | 400 V                                                                                             |
| Frequency (f)                    | 50 Hz                                                                                             |
| Output Power                     | 0.55 kW                                                                                           |
| Altitude                         | 1000 m                                                                                            |
| Ambient Temperature              | 40 °C                                                                                             |
| IC Class                         | IC411                                                                                             |
| IE Class Data (50 Hz)            | IE Class IE2<br>Full Load (100%) 74.1 %<br>Partial Load (75%) 75.4 %<br>Partial Load (50%) 73.4 % |
| IE Class Data (60 Hz)            | IE Class IE2<br>Full Load (100%) 74.0 %<br>Partial Load (75%) 73.6 %<br>Partial Load (50%) 69.2 % |
| 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                     | S                                                                                                 |

Mechanical

|                         |             |
|-------------------------|-------------|
| Frame Material          | Aluminum    |
| Frame Size              | 71          |
| Bearing                 | 6203-2Z/C3  |
| Bearing NDE             | 6202-2Z/C3  |
| Lubrication             | For life    |
| IM Class                | IMB5 IM3001 |
| Terminator Box Location | Top         |

Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Depth / Length | 239.5 mm |
| Product Net Height         | 180 mm   |

|                    |        |
|--------------------|--------|
| Product Net Width  | 136 mm |
| Product Net Weight | 5.9 kg |
| Gross Weight       | 8.9 kg |

**Environmental**

|               |                                                            |
|---------------|------------------------------------------------------------|
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| SCIP          | 27ac6190-e1ce-4080-8654-6552aaabbe58 Finland               |

**External Classifications and Standards**

|           |             |
|-----------|-------------|
| Standards | IEC 60034-1 |
| UNSPSC    | 26101100    |

**Categories**

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

