



PRODUCT-DETAILS

# 3GAA131120-ADE

## IE2 High Efficiency Aluminum Motors, 5.5 kW, 400 V (3GAA131120-ADE)



| General Information  |   |
|----------------------|---|
| Product ID           | 3GAA131120-ADE  |
| ABB Type Designation | M3AA 132SB 2  |
| Catalog Description  | IE2 High Efficiency Aluminum Motors, 5.5 kW, 400 V (3GAA131120-ADE) |

| Ordering                  |   |
|---------------------------|---|
| ABB Type Designation      | M3AA 132SB 2                              |
| Invoice Description       | M3AA 132SB 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         | China (CN)<br>Finland (FI)<br>Poland (PL) |
| Customs Tariff Number     | 85015220                                  |
| Replaced Product ID (OLD) | 3GAA131442-ADE<br>3GAA131312-ADE          |
| Stocked At                | Menden, Germany                           |

|                    |  |
|--------------------|--|
| (Warehouses)       | Shanghai, China<br>Vittuone, Italy   |
| Medium Description | 5.5kW, 2 Poles, Frame Size 132, 3 Phases, 400V, 50Hz, IP55 Enclosure,<br>IMB3/IM1001 Mounting (3GAA131120-ADE) |
| Short Description  | 5.5kW, 2P, Frame Size 132, 3PH, 400V, 50Hz, IP55, IMB3/IM1001  |

Electrical

Electrical Data

| Conn | Temp Class | Freq  | Voltage | Power   | Speed      | Current | Power Factor | Efficiency | Torque    | IS/IN |
|------|------------|-------|---------|---------|------------|---------|--------------|------------|-----------|-------|
| Y    | --         | 50 Hz | 690 V   | 5.50 kW | 2915 r/min | 6.10 A  | 0.820        | 88.00 %    | 18.00 N·m | 7.90  |
| D    | --         | 50 Hz | 400 V   | 5.50 kW | 2915 r/min | 11.00 A | 0.820        | 88.00 %    | 18.00 N·m | 7.90  |
| D    | --         | 60 Hz | 460 V   | 5.50 kW | 3515 r/min | 9.00 A  | 0.860        | 88.50 %    | 14.90 N·m | 8.50  |

|                                  |   |
|----------------------------------|---|
| Connection Configuration         | D   |
| Temperature Class Default        | --  |
| Input Voltage (U <sub>in</sub> ) | 400 V   |
| Frequency (f)                    | 50 Hz   |
| Output Power                     | 5.5 kW  |
| Altitude                         | 1000 m  |
| Ambient Temperature              | 40 °C   |
| IC Class                         | IC411   |
| IE Class Data (50 Hz)            | IE Class IE2<br>Full Load (100%) 88.0 %<br>Partial Load (75%) 88.2 %<br>Partial Load (50%) 86.9 % |
| IE Class Data (60 Hz)            | IE Class IE2<br>Full Load (100%) 88.5 %<br>Partial Load (75%) 87.8 %<br>Partial Load (50%) 85.3 % |
| 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                     | D   |

Mechanical

|                         |             |
|-------------------------|-------------|
| Frame Material          | Aluminum    |
| Frame Size              | 132         |
| Bearing                 | 6208-2Z/C3  |
| Bearing NDE             | 6206-2Z/C3  |
| IM Class                | IMB3 IM1001 |
| Terminator Box Location | D-End top   |

Dimensions

|                       |          |
|-----------------------|----------|
| Package Level 1 Units | 0 carton |
|-----------------------|----------|

|                            |        |
|----------------------------|--------|
| Product Net Depth / Length | 447 mm |
| Product Net Height         | 296 mm |
| Product Net Width          | 262 mm |
| Product Net Weight         | 52 kg  |
| Gross Weight               | 57 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

