



PRODUCT-DETAILS

3GAA101520-AFE

IE2 High Efficiency Aluminum Motors, 3 kW, 500 V (3GAA101520-AFE)



General Information

| | |
|----------------------|---|
| Product ID | 3GAA101520-AFE |
| ABB Type Designation | M3AA 100LB 2 |
| Catalog Description | IE2 High Efficiency Aluminum Motors, 3 kW, 500 V (3GAA101520-AFE) |

Ordering

| | |
|---------------------------|---|
| ABB Type Designation | M3AA 100LB 2 |
| Invoice Description | M3AA 100LB 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) Poland (PL) |
| Customs Tariff Number | 85015220 |
| Replaced Product ID (OLD) | 3GAA101312-AFE |
| Medium Description | 3kW, 2 Poles, Frame Size 100, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GAA101520-AFE) |
| Short Description | 3kW, 2P, Frame Size 100, 3PH, 500V, 50Hz, IP55, IMB3/IM1001 |

Electrical

| Electrical Data | | | | | | | | | | | |
|----------------------------------|------------|-------|---------|---------|------------|---------|--------------|------------|----------|-------|---|
| Conn | Temp Class | Freq | Voltage | Power | Speed | Current | Power Factor | Efficiency | Torque | IS/IN | |
| Y | -- | 50 Hz | 500 V | 3.00 kW | 2920 r/min | 4.60 A | 0.860 | 86.40 % | 9.80 N·m | 9.30 | |
| Y | -- | 60 Hz | 575 V | 3.00 kW | 3530 r/min | 4.10 A | 0.840 | 86.40 % | 8.10 N·m | 10.00 | |
| Connection Configuration | | | | | | | | | | | Y |
| Temperature Class Default | | | | | | | | | | | -- |
| Input Voltage (U _{in}) | | | | | | | | | | | 500 V |
| Frequency (f) | | | | | | | | | | | 50 Hz |
| Output Power | | | | | | | | | | | 3 kW |
| Altitude | | | | | | | | | | | 1000 m |
| Ambient Temperature | | | | | | | | | | | 40 °C |
| IC Class | | | | | | | | | | | IC411 |
| IE Class Data (50 Hz) | | | | | | | | | | | IE Class IE2 Full Load (100%) 86.4 % Partial Load (75%) 86.0 % Partial Load (50%) 83.9 % |
| IE Class Data (60 Hz) | | | | | | | | | | | IE Class IE1 Full Load (100%) 86.4 % Partial Load (75%) 85.6 % Partial Load (50%) 83.2 % |
| 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 | | | | | | | | | | | F |
| Gas Group | | | | | | | | | | | IIC |

Mechanical

| | |
|-------------------------|-------------|
| Frame Material | Aluminum |
| Frame Size | 100 |
| Bearing | 6306-2Z/C3 |
| Bearing NDE | 6205-2Z/C3 |
| IM Class | IMB3 IM1001 |
| Terminator Box Location | D-End top |

Dimensions

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|----------------------------|----------|
| 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

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| UNSPSC | 26101100 |
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Categories

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

