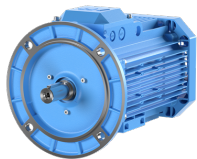




PRODUCT-DETAILS

3GAA091312-BDE

IE2 High Efficiency Aluminum Motors, 1.5 kW,
400 V (3GAA091312-BDE)



General Information

| | |
|----------------------|---|
| Product ID | 3GAA091312-BDE |
| ABB Type Designation | M3AA 90L 2 |
| Catalog Description | IE2 High Efficiency Aluminum Motors, 1.5 kW, 400 V (3GAA091312-BDE) |

Ordering

| | |
|-------------------------|--|
| ABB Type Designation | M3AA 90L 2 |
| Invoice Description | M3AA 90L 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) Sweden (SE) Poland (PL) |
| Customs Tariff Number | 85015220 |
| Stocked At (Warehouses) | Shanghai, China |
| Medium Description | 1.5kW, 2 Poles, Frame Size 90, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA091312-BDE) |
| Short Description | 1.5kW, 2P, Frame Size 90, 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 | 1.50 kW | 2900 r/min | 1.67 A | 0.860 | 84.10 % | 4.90 N·m | 7.60 |
| D | -- | 50 Hz | 400 V | 1.50 kW | 2900 r/min | 2.90 A | 0.860 | 84.10 % | 4.90 N·m | 7.60 |
| D | -- | 60 Hz | 460 V | 1.50 kW | 3510 r/min | 2.60 A | 0.840 | 85.40 % | 4.00 N·m | 8.40 |

| | |
|----------------------------------|---|
| Connection Configuration | D |
| Temperature Class Default | -- |
| Input Voltage (U _{in}) | 400 V |
| Frequency (f) | 50 Hz |
| Output Power | 1.5 kW |
| Altitude | 1000 m |
| Ambient Temperature | 40 °C |
| IC Class | IC411 |
| IE Class Data (50 Hz) | IE Class IE2 Full Load (100%) 84.1 % Partial Load (75%) 85.0 % Partial Load (50%) 83.5 % |
| IE Class Data (60 Hz) | IE Class IE2 Full Load (100%) 85.4 % |
| 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 | 90 |
| Bearing | 6205-2Z/C3 |
| Bearing NDE | 6204-2Z/C3 |
| Lubrication | For life |
| IM Class | IMB5 IM3001 |
| Terminator Box Location | D-End top |

Dimensions

| | |
|----------------------------|----------|
| Package Level 1 Units | 0 carton |
| Product Net Depth / Length | 309.5 mm |
| Product Net Height | 217 mm |
| Product Net Width | 177 mm |
| Product Net Weight | 16 kg |
| Gross Weight | 16.48 kg |

Environmental

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

Classifications

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

Categories

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

