



PRODUCT-DETAILS

3GAA281220-BEK

IE3 Premium Efficiency Aluminum Motors, 90 kW, 500 V (3GAA281220-BEK)



| General Information | |
|----------------------|---|
| Product ID | 3GAA281220-BEK |
| ABB Type Designation | M3AA 280SMB 2 |
| Catalog Description | IE3 Premium Efficiency Aluminum Motors, 90 kW, 500 V (3GAA281220-BEK) |

| Ordering | |
|---------------------------|--|
| ABB Type Designation | M3AA 280SMB 2 |
| Invoice Description | M3AA 280SMB 2 |
| Product Name | 3-Phase squirrel cage motor |
| Product Type | 3AA3 _M3AA_IE3_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 | 85015381 |
| Replaced Product ID (OLD) | 3GAA281052-BEK |
| Medium Description | 90kW, 2 Poles, Frame Size 280, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA281220-BEK) |

Short Description

90kW, 2P, Frame Size 280, 3PH, 500V, 50Hz, IP55, IMB5/IM3001

Electrical

Electrical Data

| Conn | Temp Class | Freq | Voltage | Power | Speed | Current | Power Factor | Efficiency | Torque | IS/IN |
|----------------------------------|------------|-------|---------|----------|------------|----------|--------------|------------|------------|---|
| D | -- | 50 Hz | 500 V | 90.00 kW | 2974 r/min | 125.00 A | 0.870 | 95.00 % | 288.64 N·m | 8.30 |
| Connection Configuration | | | | | | | | | | D |
| Temperature Class Default | | | | | | | | | | -- |
| Input Voltage (U _{in}) | | | | | | | | | | 500 V |
| Frequency (f) | | | | | | | | | | 50 Hz |
| Output Power | | | | | | | | | | 90 kW |
| Altitude | | | | | | | | | | 1000 m |
| Ambient Temperature | | | | | | | | | | 40 °C |
| IC Class | | | | | | | | | | IC411 |
| IE Class Data (50 Hz) | | | | | | | | | | IE Class IE3 Full Load (100%) 95.0 % Partial Load (75%) 95.1 % Partial Load (50%) 94.7 % |
| IE Class Data (60 Hz) | | | | | | | | | | IE Class IE3 Full Load (100%) 95.0 % Partial Load (75%) 95.0 % Partial Load (50%) 94.2 % |
| 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 | | | | | | | | | | E |

Mechanical

| | |
|-------------------------|-------------|
| Frame Material | Aluminum |
| Frame Size | 280 |
| Bearing | 6315/C3 |
| Bearing NDE | 6213/C3 |
| IM Class | IMB5 IM3001 |
| Terminator Box Location | D-End top |

Dimensions

| | |
|----------------------------|-----------------|
| Package Level 1 Units | 0 pallet (lift) |
| Product Net Depth / Length | 884 mm |
| Product Net Height | 657 mm |
| Product Net Width | 522 mm |
| Product Net Weight | 420 kg |
| Gross Weight | 440 kg |

Environmental

| | |
|---------------|---|
| WEEE Category | 4. Large Equipment (Any 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 → IE3 Premium Efficiency Aluminum Motors

