

PRODUCT-DETAILS

3GAA253220-BEG

IE2 High Efficiency Aluminum Motors, 45 kW, 500 V (3GAA253220-BEG)



| General Information | |
|----------------------|--|
| Product ID | 3GAA253220-BEG |
| ABB Type Designation | M3AA 250SMB 6 |
| Catalog Description | IE2 High Efficiency Aluminum Motors, 45 kW, 500 V (3GAA253220-BEG) |

| Ordering | |
|---------------------------|--|
| ABB Type Designation | M3AA 250SMB 6 |
| Invoice Description | M3AA 250SMB 6 |
| 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 | 85015290 |
| Replaced Product ID (OLD) | 3GAA253032-BEG |
| Medium Description | 45kW, 6 Poles, Frame Size 250, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB5/IM3001 Mounting (3GAA253220-BEG) |

Short Description

45kW, 6P, Frame Size 250, 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 | 45.00 kW | 989 r/min | 68.10 A | 0.830 | 93.40 % | 434.00 N·m | 7.00 |
| D | -- | 60 Hz | 575 V | 45.00 kW | 1191 r/min | 59.60 A | 0.820 | 93.90 % | 360.00 N·m | 7.90 |

| | |
|----------------------------------|---|
| Connection Configuration | D |
| Temperature Class Default | -- |
| Input Voltage (U _{in}) | 500 V |
| Frequency (f) | 50 Hz |
| Output Power | 45 kW |
| Altitude | 1000 m |
| Ambient Temperature | 40 °C |
| IC Class | IC411 |
| IE Class Data (50 Hz) | IE Class IE2 Full Load (100%) 93.4 % Partial Load (75%) 94.1 % Partial Load (50%) 93.9 % |
| IE Class Data (60 Hz) | IE Class IE2 Full Load (100%) 93.9 % Partial Load (75%) 94.2 % Partial Load (50%) 93.5 % |
| IP Class | IP55 |
| Insulation Class | ICLF |
| Direction of Rotation | Both sides |
| Number of Poles (High) | 6 |
| Two Speed Motor | No |
| Type of Duty | S1 |
| Voltage Code | E |

Mechanical

| | |
|-------------------------|-------------|
| Frame Material | Aluminum |
| Frame Size | 250 |
| Bearing | 6315-2Z/C3 |
| Bearing NDE | 6213-2Z/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 | 595 mm |
| Product Net Width | 473 mm |
| Product Net Weight | 341 kg |

| | |
|--------------|--------|
| Gross Weight | 351 kg |
|--------------|--------|

Environmental

| | |
|---------------|---|
| WEEE Category | 4. Large Equipment (Any 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

