

PRODUCT-DETAILS

3GAA281210-HDG

IE2 High Efficiency Aluminum Motors, 75 kW, 400 V (3GAA281210-HDG)



| General Information | |
|----------------------|--|
| Product ID | 3GAA281210-HDG |
| ABB Type Designation | M3AA 280SMA 2 |
| Catalog Description | IE2 High Efficiency Aluminum Motors, 75 kW, 400 V (3GAA281210-HDG) |

| Ordering | |
|---------------------------|---|
| ABB Type Designation | M3AA 280SMA 2 |
| Invoice Description | M3AA 280SMA 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 | 85015290 |
| Replaced Product ID (OLD) | 3GAA281031-HDG |
| Medium Description | 75kW, 2 Poles, Frame Size 280, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB35/IM2001 Mounting (3GBP281210-HDG) |

Short Description

75kW, 2P, Frame Size 280, 3PH, 400V, 50Hz, IP55, IMB35/IM2001

Electrical

Electrical Data

| Conn | Temp Class | Freq | Voltage | Power | Speed | Current | Power Factor | Efficiency | Torque | IS/IN |
|------|------------|-------|---------|----------|------------|----------|--------------|------------|------------|-------|
| Y | -- | 50 Hz | 690 V | 75.00 kW | 2968 r/min | 74.20 A | 0.890 | 94.40 % | 241.00 N·m | 7.10 |
| D | -- | 50 Hz | 400 V | 75.00 kW | 2968 r/min | 128.00 A | 0.890 | 94.40 % | 241.00 N·m | 7.10 |
| D | -- | 50 Hz | 415 V | 75.00 kW | 2971 r/min | 125.00 A | 0.880 | 94.50 % | 241.00 N·m | 7.50 |
| D | -- | 60 Hz | 440 V | 75.00 kW | 3569 r/min | 115.00 A | 0.900 | 94.30 % | 200.00 N·m | 7.40 |
| D | -- | 60 Hz | 460 V | 75.00 kW | 3568 r/min | 112.00 A | 0.890 | 94.40 % | 200.00 N·m | 8.00 |

| | |
|----------------------------------|---|
| Connection Configuration | D |
| Temperature Class Default | -- |
| Input Voltage (U _{in}) | 400 V |
| Frequency (f) | 50 Hz |
| Output Power | 75 kW |
| Altitude | 1000 m |
| Ambient Temperature | 40 °C |
| IC Class | IC411 |
| IE Class Data (50 Hz) | IE Class IE2 Full Load (100%) 94.4 % Partial Load (75%) 94.7 % Partial Load (50%) 94.2 % |
| IE Class Data (60 Hz) | IE Class IE3 Full Load (100%) 94.3 % Partial Load (75%) 94.3 % Partial Load (50%) 93.3 % |
| 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 | 280 |
| Bearing | 6315/C3 |
| Bearing NDE | 6213/C3 |
| IM Class | IMB35 IM2001 |
| 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 | 471 mm |
| Product Net Weight | 389 kg |
| Gross Weight | 409 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 |
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Categories

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

