



 PRODUCT-DETAILS

3GBP222220-ADK

IE3 Premium Efficiency Cast Iron Motors, 45 kW, 400 V (3GBP222220-ADK)



General Information

| | |
|----------------------|--|
| Product ID | 3GBP222220-ADK |
| ABB Type Designation | M3BP 225SMB 4 |
| Catalog Description | IE3 Premium Efficiency Cast Iron Motors, 45 kW, 400 V (3GBP222220-ADK) |

Ordering

| | |
|--------------------------------|--|
| ABB Type Designation | M3BP 225SMB 4 |
| Invoice Description | M3BP 225SMB 4 |
| Product Name | 3-Phase squirrel cage motor |
| Product Type | 3BP3_M3BP_IE3_CI |
| Country or Territory of Origin | Finland China Poland |
| Customs Tariff Number | 85015290 |
| Replaced Product ID (OLD) | 3GBP222052-ADK |
| Stocked At (Warehouses) | Menden, Germany |
| Medium Description | 45kW, 4 Poles, Frame Size 225, 3 Phases, 400V, 50Hz, IP55 Enclosure, |

IMB3/IM1001 Mounting (3GBP222220-ADK)

Short Description 45kW, 4P, Frame Size 225, 3PH, 400V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

| Conn | Temp Class | Network Freq | Network Voltage | Power | Speed | Current | Power Factor | Efficiency | Torque | IS/IN |
|------|------------|--------------|-----------------|----------|------------|---------|--------------|------------|------------|-------|
| Y | -- | 50 Hz | 690 V | 45.00 kW | 1482 r/min | 47.60 A | 0.840 | 94.20 % | 290.00 N·m | 8.00 |
| D | -- | 50 Hz | 400 V | 45.00 kW | 1482 r/min | 82.30 A | 0.840 | 94.20 % | 290.00 N·m | 8.00 |
| Y | -- | 50 Hz | 660 V | 45.00 kW | 1478 r/min | 48.70 A | 0.860 | 94.20 % | 290.60 N·m | 7.30 |
| D | -- | 50 Hz | 380 V | 45.00 kW | 1478 r/min | 85.00 A | 0.860 | 94.20 % | 290.60 N·m | 7.30 |
| D | -- | 50 Hz | 415 V | 45.00 kW | 1483 r/min | 81.00 A | 0.820 | 94.20 % | 290.00 N·m | 8.60 |
| D | -- | 60 Hz | 460 V | 45.00 kW | 1784 r/min | 71.80 A | 0.830 | 95.00 % | 241.20 N·m | 8.80 |

| | |
|----------------------------------|---|
| Connection Configuration | D |
| Temperature Class Default | -- |
| Input Voltage (U _{in}) | 400 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 IE3 Full Load (100%) 94.2 % Partial Load (75%) 94.3 % Partial Load (50%) 93.8 % |
| IE Class Data (60 Hz) | IE Class IE3 Full Load (100%) 95.0 % Partial Load (75%) 95.0 % Partial Load (50%) 94.0 % |
| IP Class | IP55 |
| Insulation Class | ICLF |
| Direction of Rotation | Both sides |
| Number of Poles (High) | 4 |
| Two Speed Motor | No |
| Type of Duty | S1 |
| Voltage Code | D |

Mechanical

| | |
|-------------------------|-------------|
| Frame Material | Cast Iron |
| Frame Size | 225 |
| Bearing | 6313/C3 |
| Bearing NDE | 6212/C3 |
| IM Class | IMB3 IM1001 |
| Terminator Box Location | D-End top |

Dimensions

| | |
|----------------------------|--------|
| Product Net Depth / Length | 879 mm |
| Product Net Height | 573 mm |
| Product Net Width | 435 mm |
| Product Net Weight | 398 kg |
| Gross Weight | 408 kg |

Environmental

| | |
|---------------|---|
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |
| SCIP | 54c45c7b-7581-40ab-b615-c1dcb277d8a7 Finland |

External Classifications and Standards

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

Categories

Motors and Generators → IEC Low Voltage AC Motors → Process Performance Motors → IE3 Premium Efficiency Cast Iron Motors

