



PRODUCT-DETAILS

3GBP102323-ADB

IE2 High Efficiency Cast Iron Motors, 2.2 kW, 400 V (3GBP102323-ADB)



| General Information  |                                                                      |
|----------------------|----------------------------------------------------------------------|
| Product ID           | 3GBP102323-ADB                                                       |
| ABB Type Designation | M3BP 100LC 4                                                         |
| Catalog Description  | IE2 High Efficiency Cast Iron Motors, 2.2 kW, 400 V (3GBP102323-ADB) |

| Ordering                |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| ABB Type Designation    | M3BP 100LC 4                                                                                                |
| Product Name            | 3-Phase squirrel cage motor                                                                                 |
| Product Type            | 3BP2__M3BP_IE2_CI                                                                                           |
| Made To Order           | No                                                                                                          |
| Minimum Order Quantity  | 1 piece                                                                                                     |
| Selling Unit of Measure | piece                                                                                                       |
| Country of Origin       | Spain (ES)<br>Finland (FI)<br>China (CN)                                                                    |
| Customs Tariff Number   | 85015220                                                                                                    |
| Medium Description      | 2.2kW, 4 Poles, Frame Size 100, 3 Phases, 400V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GBP102323-ADB) |

Short Description

2.2kW, 4P, Frame Size 100, 3PH, 400V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

| Conn | Temp Class | Freq  | Voltage | Power   | Speed      | Current | Power Factor | Efficiency | Torque    | IS/IN |
|------|------------|-------|---------|---------|------------|---------|--------------|------------|-----------|-------|
| Y    | --         | 50 Hz | 690 V   | 2.20 kW | 1450 r/min | 2.67 A  | 0.780        | 85.90 %    | 14.50 N·m | 7.70  |
| D    | --         | 50 Hz | 400 V   | 2.20 kW | 1450 r/min | 4.60 A  | 0.780        | 85.90 %    | 14.50 N·m | 7.70  |
| D    | --         | 60 Hz | 460 V   | 2.20 kW | 1755 r/min | 4.08 A  | 0.780        | 87.50 %    | 12.00 N·m | 9.00  |

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| Connection Configuration         | D                                                                                                 |
| Temperature Class Default        | --                                                                                                |
| Input Voltage (U <sub>in</sub> ) | 400 V                                                                                             |
| Frequency (f)                    | 50 Hz                                                                                             |
| Output Power                     | 2.2 kW                                                                                            |
| Altitude                         | 1000 m                                                                                            |
| Ambient Temperature              | 40 °C                                                                                             |
| IC Class                         | IC411                                                                                             |
| IE Class Data (50 Hz)            | IE Class IE2<br>Full Load (100%) 85.9 %<br>Partial Load (75%) 85.1 %<br>Partial Load (50%) 83.4 % |
| IE Class Data (60 Hz)            | IE Class IE2<br>Full Load (100%) 87.5 %<br>Partial Load (75%) 86.7 %<br>Partial Load (50%) 84.3 % |
| 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              | 100         |
| Bearing                 | 6206-2Z/C3  |
| Bearing NDE             | 6205-2Z/C3  |
| Lubrication             | For life    |
| IM Class                | IMB3 IM1001 |
| Terminator Box Location | Top         |

Dimensions

|                            |          |
|----------------------------|----------|
| Package Level 1 Units      | 1 carton |
| Product Net Depth / Length | 381 mm   |

|                    |        |
|--------------------|--------|
| Product Net Height | 247 mm |
| Product Net Width  | 200 mm |
| Product Net Weight | 36 kg  |
| Gross Weight       | 41 kg  |

Environmental

|               |                                                            |
|---------------|------------------------------------------------------------|
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| SCIP          | 54c45c7b-7581-40ab-b615-c1dcb277d8a7 Finland (FI)          |

Classifications

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

Categories

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

