

Product data sheet

Characteristics

SH30703P1BF4100

SH3 OMC motor 70mm 3 st. IP65/65 keyed sh.
DSL multi turn ang.conn.M23 brake



Main

| | |
|---------------------------|-------------|
| Range compatibility | PacDrive 3 |
| Device short name | SH3.....P |
| Product or component type | Servo motor |

Complementary

| | |
|----------------------------------|--|
| Maximum mechanical speed | 8000 rpm |
| [Us] rated supply voltage | 115...480 V |
| Network number of phases | Three phase |
| Continuous stall current | 4.1 A |
| Continuous stall torque | 2.94 N.m at 115...480 V three phase |
| Continuous power | 1330 W |
| Peak stall torque | 11.3 N.m at 115...480 V three phase |
| Nominal output power | 830 W at 230 V single phase 1330 W at 400 V three phase 1330 W at 480 V three phase |
| Nominal torque | 2.8 N.M at 230 V single phase 2.1 N.M at 400 V three phase 2.1 N.m at 480 V three phase |
| Nominal speed | 3000 rpm at 230 V single phase 6000 rpm at 400 V three phase 7200 rpm at 480 V three phase |
| Maximum current I _{rms} | 17 A |
| Shaft end | Parallel key |
| Shaft diameter | 14 mm |
| Shaft length | 30 mm |
| Key width | 5 mm |
| IP degree of protection | IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5 |
| Encoder type | Absolute multiturn Hiperface DSL |
| Speed feedback resolution | 262144 points/turn x 4096 turns |
| Holding brake | With |
| Holding torque | 3 N.m |
| Mounting support | International standard flange |
| Motor flange size | 70 mm |
| Electrical connection | Straight connector |
| Torque constant | 0.72 N.m/A at 120 °C |
| Back emf constant | 49 V/krpm at 20 °C |
| Number of motor poles | 3 |
| Rotor inertia | 0.807 kg.cm ² |
| Stator resistance | 2.7 Ohm |

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| | |
|---------------------------------------|--------------------|
| Stator inductance | 14.6 mH |
| Maximum radial force Fr | 1070 N at 1000 rpm |
| Maximum axial force Fa | 160 N |
| Brake pull-in power | 7 W |
| Type of cooling | Natural convection |
| Length | 246 mm |
| Centring collar diameter | 60 mm |
| Centring collar depth | 2.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 5.5 mm |
| Circle diameter of the mounting holes | 82 mm |
| Net weight | 4.0 kg |

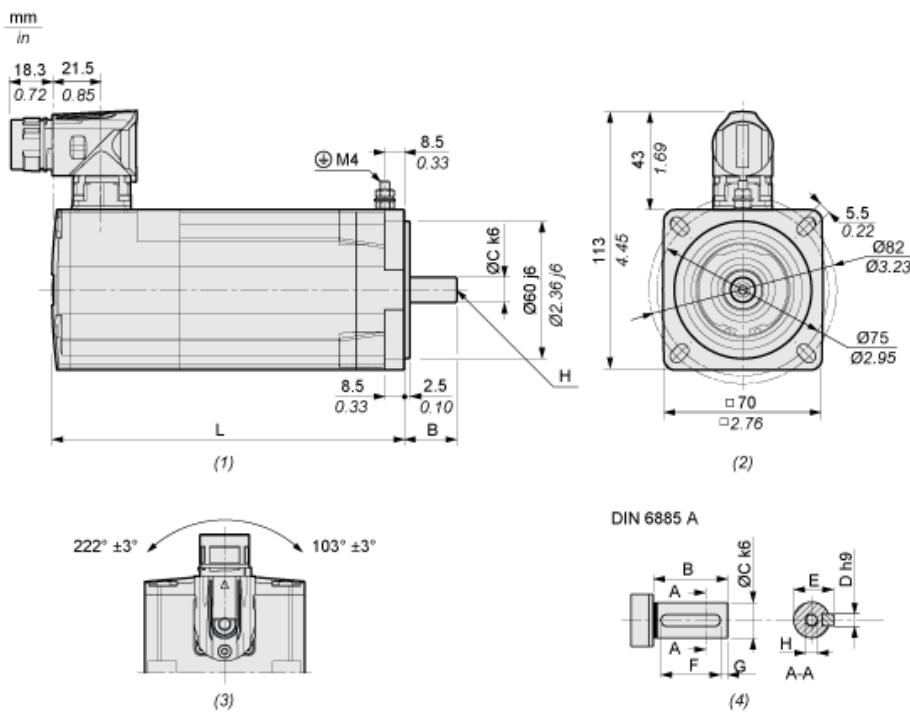
Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 11.5 cm |
| Package 1 Width | 19.0 cm |
| Package 1 Length | 39.5 cm |
| Package 1 Weight | 4.5 kg |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free | Yes |

Dimensions



(1) : Side view
 (2) : Mounting
 (3) : Rotating area
 (4) : Feather key

| Characteristic | | Unit | Value |
|----------------|------------------------------------|---------|------------------|
| L | Length with holding brake | mm (in) | 254 (10) |
| B | Shaft length | mm (in) | 30 (1.18) |
| C | Shaft diameter | mm (in) | 14 (0.55) |
| D | Width of parallel key | mm (in) | 5 (0.2) |
| E | Shaft width with parallel key | mm (in) | 16 (0.63) |
| F | Length of parallel key | mm (in) | 20 (0.79) |
| G | Distance parallel key to shaft end | mm (in) | 5 (0.2) |
| H | Female thread of shaft | | DIN 332-D M5 |
| | Parallel key | | DIN 6885-A4x4x20 |