

Product data sheet

Characteristics

SH30701P1AF4000

SH3 OMC motor 70mm 1 st. IP65/54 keyed sh.
DSL single 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 | 1.8 A |
| Continuous stall torque | 1.25 N.m at 115...480 V three phase |
| Continuous power | 690 W |
| Peak stall torque | 3.5 N.m at 115...480 V three phase |
| Nominal output power | 370 W at 230 V single phase 690 W at 400 V three phase 690 W at 480 V three phase |
| Nominal torque | 1.4 N.M at 230 V single phase 1.1 N.M at 400 V three phase 1.1 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} | 5.7 A |
| Shaft end | Parallel key |
| Shaft diameter | 11 mm |
| Shaft length | 23 mm |
| Key width | 4 mm |
| IP degree of protection | IP65 motor: conforming to EN/IEC 60034-5 IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5 |
| Encoder type | Absolute single turn Hiperface DSL |
| Speed feedback resolution | 262144 points/turn |
| Holding brake | With |
| Holding torque | 3 N.m |
| Mounting support | International standard flange |
| Motor flange size | 70 mm |
| Electrical connection | Straight connector |
| Torque constant | 0.69 N.m/A at 120 °C |
| Back emf constant | 46 V/krpm at 20 °C |
| Number of motor poles | 3 |
| Rotor inertia | 0.322 kg.cm ² |
| Stator resistance | 10.4 Ohm |

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| | |
|---------------------------------------|--------------------|
| Stator inductance | 42.6 mH |
| Maximum radial force Fr | 730 N at 1000 rpm |
| Maximum axial force Fa | 80 N |
| Brake pull-in power | 7 W |
| Type of cooling | Natural convection |
| Length | 180 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 | 2.5 kg |

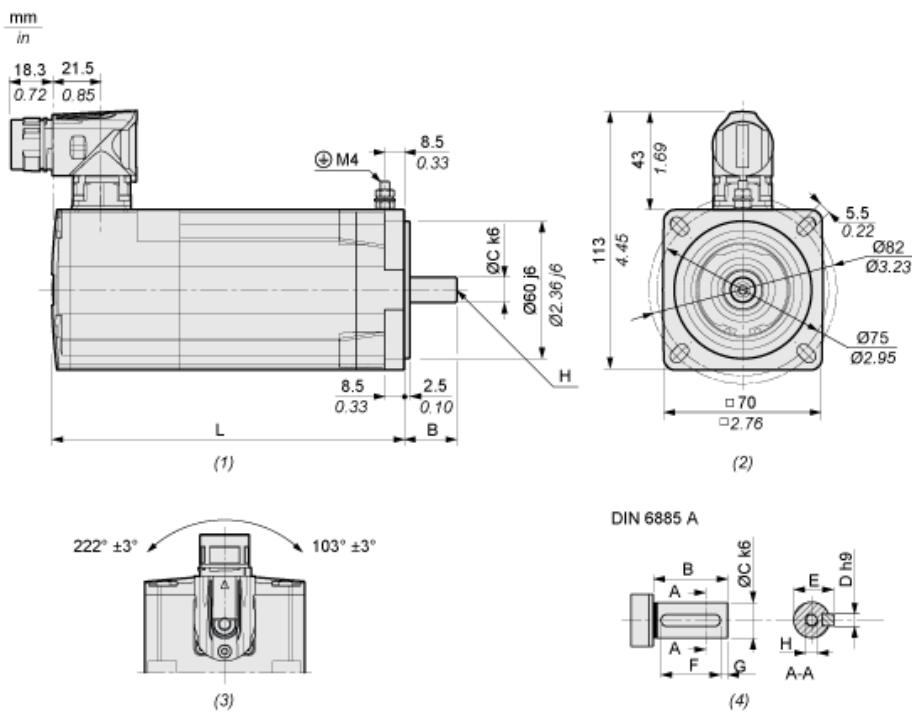
Packing Units

| | |
|------------------------------|---------|
| 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 | 2.9 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) | 180 (7.09) |
| B | Shaft length | mm (in) | 23 (0.91) |
| C | Shaft diameter | mm (in) | 11 (0.43) |
| D | Width of parallel key | mm (in) | 4 (0.16) |
| E | Shaft width with parallel key | mm (in) | 12.5 (0.49) |
| F | Length of parallel key | mm (in) | 18 (0.71) |
| G | Distance parallel key to shaft end | mm (in) | 2.5 (0.1) |
| H | Female thread of shaft | | DIN 332-D M4 |
| | Parallel key | | DIN 6885-A4x4x18 |