

Product data sheet

Characteristics

SH31004P1BA4000

SH3 OMC motor 100mm 4 st. IP65/54 keyed sh. DSL multi turn ang.conn.M23



Main

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

Complementary

| | |
|---------------------------|--|
| Maximum mechanical speed | 6000 rpm |
| [Us] rated supply voltage | 115...480 V |
| Network number of phases | Three phase |
| Continuous stall current | 6.2 A |
| Continuous stall torque | 10 N.m at 115...480 V three phase |
| Continuous power | 2500 W |
| Peak stall torque | 40.5 N.m at 115...480 V three phase |
| Nominal output power | 1490 W at 230 V single phase 2480 W at 400 V three phase 2480 W at 480 V three phase |
| Nominal torque | 9.5 N.M at 230 V single phase 7.9 N.M at 400 V three phase 6.9 N.m at 480 V three phase |
| Nominal speed | 1500 rpm at 230 V single phase 3000 rpm at 400 V three phase 3600 rpm at 480 V three phase |
| Maximum current I_{rms} | 32.3 A |
| Shaft end | Parallel key |
| Shaft diameter | 24 mm |
| Shaft length | 50 mm |
| Key width | 8 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 multiturn Hiperface DSL |
| Speed feedback resolution | 262144 points/turn x 4096 turns |
| Holding brake | Without |
| Mounting support | International standard flange |
| Motor flange size | 100 mm |
| Electrical connection | Rotatable right angled connector |
| Torque constant | 1.62 N.m/A at 120 °C |
| Back emf constant | 103 V/krpm at 20 °C |
| Number of motor poles | 4 |
| Rotor inertia | 4.22 kg.cm² |
| Stator resistance | 1.8 Ohm |
| Stator inductance | 13 mH |

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| | |
|---------------------------------------|---|
| Maximum radial force Fr | 100 N at 3000 rpm 145 N at 1000 rpm 115 N at 2000 rpm |
| Maximum axial force Fa | 20 N |
| Type of cooling | Natural convection |
| Length | 276.5 mm |
| Centring collar diameter | 95 mm |
| Centring collar depth | 3.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 9.0 mm |
| Circle diameter of the mounting holes | 115 mm |
| Net weight | 9.1 kg |

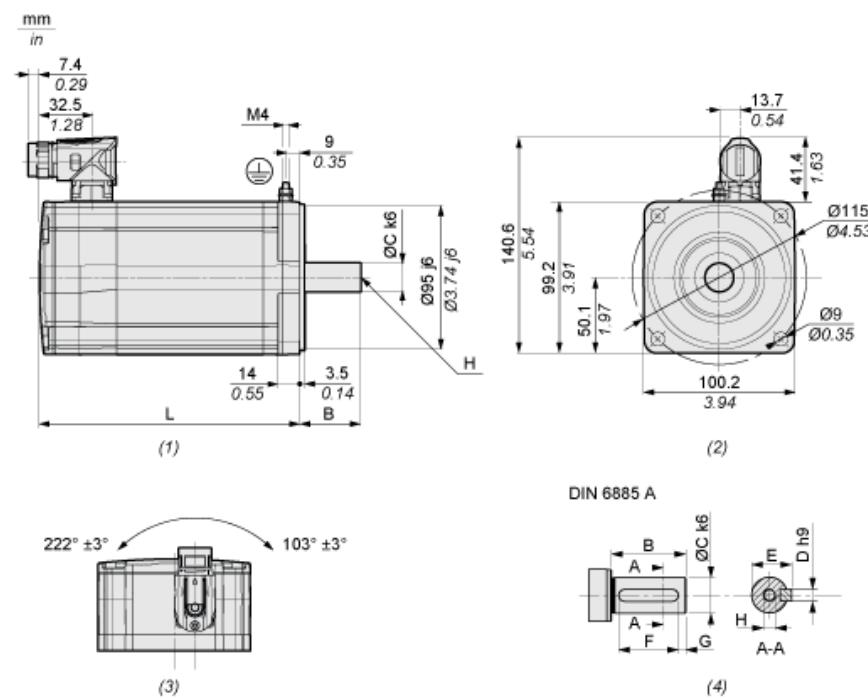
Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 26.0 cm |
| Package 1 Width | 20.0 cm |
| Package 1 Length | 59.0 cm |
| Package 1 Weight | 10.2 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 without holding brake | mm (in) | 276.5 (10.89) |
| B | Shaft length | mm (in) | 50 (1.97) |
| C | Shaft diameter | mm (in) | 24 (0.94) |
| D | Width of parallel key | mm (in) | 8 (0.31) |
| E | Shaft width with parallel key | mm (in) | 27 (1.06) |
| F | Length of parallel key | mm (in) | 40 (1.57) |
| G | Distance parallel key to shaft end | mm (in) | 5 (0.2) |
| H | Female thread of shaft | | DIN 332-D M8 |
| | Parallel key | | DIN 6885-A8x7x40 |