

Product data sheet

Characteristics

SH31403P11A2000

servo motor SH3 140

27,8Nm,key,single,nobrake,90°conn.IP54/
IP65,4k RPM



Main

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

Complementary

| | |
|----------------------------------|--|
| Maximum mechanical speed | 4000 rpm |
| [Us] rated supply voltage | 115...480 V |
| Network number of phases | Three phase |
| Continuous stall current | 17.6 A |
| Continuous stall torque | 27.8 N.m at 115...480 V three phase |
| Continuous power | 4100 W |
| Peak stall torque | 90.2 N.m at 115...480 V three phase |
| Nominal output power | 1940 W at 115 V single phase 3330 W at 230 V single phase 4050 W at 400 V three phase 3430 W at 480 V three phase |
| Nominal torque | 24.7 N.M at 115 V single phase 21.2 N.M at 230 V single phase 12.9 N.M at 400 V three phase 9.1 N.m at 480 V three phase |
| Nominal speed | 750 rpm at 115 V single phase 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} | 61 A |
| Shaft end | Parallel key |
| Shaft diameter | 24 mm |
| Shaft length | 50 mm |
| Key width | 8 mm |
| IP degree of protection | IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5 IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5 |
| Encoder type | Absolute single turn SinCos Hiperface |
| Speed feedback resolution | 128 periods |
| Holding brake | Without |
| Mounting support | International standard flange |
| Motor flange size | 140 mm |
| Electrical connection | Rotatable right angled connector |
| Torque constant | 1.58 N.m/A at 120 °C |
| Back emf constant | 105 V/krpm at 20 °C |

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|---------------------------------------|--|
| Number of motor poles | 5 |
| Rotor inertia | 17.94 kg.cm ² |
| Stator resistance | 0.4 Ohm |
| Stator inductance | 7.72 mH |
| Maximum radial force Fr | 2420 N at 1000 rpm 1920 N at 2000 rpm 1670 N at 3000 rpm |
| Maximum axial force Fa | 300 N |
| Type of cooling | Natural convection |
| Length | 327.5 mm |
| Centring collar diameter | 130 mm |
| Centring collar depth | 3.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 11 mm |
| Circle diameter of the mounting holes | 165 mm |
| Net weight | 21.3 kg |

Packing Units

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 20.0 cm |
| Package 1 Width | 26.0 cm |
| Package 1 Length | 59.0 cm |
| Package 1 Weight | 22.5 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | <input checked="" type="checkbox"/> REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation | <input checked="" type="checkbox"/> China RoHS Declaration |
| RoHS exemption information | <input checked="" type="checkbox"/> Yes |
| Environmental Disclosure | <input checked="" type="checkbox"/> 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 |

Contractual warranty

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| Warranty | 18 months |
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