

Product datasheet

Characteristics

SH32053P11A2200

servo motor SH3 205

94,4Nm,key,single,nobrake,90°conn.IP65/
IP67,3.8k RPM



Main

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

Complementary

| | |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Maximum mechanical speed | 3800 rpm |
| [Us] rated supply voltage | 115...480 V |
| Network number of phases | Three phase |
| Continuous stall current | 33.2 A |
| Continuous stall torque | 94.4 N.m at 115...480 V three phase |
| Peak stall torque | 330 N.m at 115...480 V three phase |
| Nominal output power | 4450 W at 115 V three phase 7790 W at 230 V three phase 10620 W at 400 V three phase 10100 W at 480 V three phase |
| Nominal torque | 84.9 N.m at 115 V three phase 74.4 N.m at 230 V three phase 50.7 N.m at 400 V three phase 40.2 N.m at 480 V three phase |
| Nominal speed | 500 rpm at 115 V three phase 1000 rpm at 230 V three phase 2000 rpm at 400 V three phase 2400 rpm at 480 V three phase |
| Maximum current I_{rms} | 136.1 A |
| Shaft end | Parallel key |
| Shaft diameter | 38 mm |
| Shaft length | 80 mm |
| Key width | 10 mm |
| IP degree of protection | IP65 motor: conforming to EN/IEC 60034-5 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

IP65 shaft bushing: conforming to EN/IEC 60034-5
IP67 housing: conforming to EN/IEC 60034-5

| | |
|---------------------------------------|----------------------------------------------------------------|
| Encoder type | Absolute single turn SinCos Hiprface |
| Speed feedback resolution | 128 periods |
| Holding brake | Without |
| Mounting support | International standard flange |
| Motor flange size | 205 mm |
| Torque constant | 2.76 N.m/A at 120 °C |
| Back emf constant | 172 V/krpm at 20 °C |
| Number of motor poles | 5 |
| Rotor inertia | 190 kg.cm² |
| Stator resistance | 0.2 Ohm |
| Stator inductance | 6.3 mH |
| Maximum radial force Fr | 4500 N at 1000 rpm 3570 N at 2000 rpm 3120 N at 3000 rpm |
| Maximum axial force Fa | 740 N |
| Type of cooling | Natural convection |
| Length | 489 mm |
| Centring collar diameter | 180 mm |
| Centring collar depth | 4 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 14 mm |
| Circle diameter of the mounting holes | 215 mm |
| Product weight | 67 kg |

Offer Sustainability

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| 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 |

Contractual warranty

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| Warranty | 18 months |
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