

SH31001P12A2100

servo motor SH3 100

2,94Nm,key,multi,nobrake,90° conn.IP65/
IP65,6k RPM



Main

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|---------------------------|-------------|
| Range Compatibility | PacDrive 3 |
| Product or Component Type | Servo motor |
| Device short name | SH3.....P |

Complementary

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|---------------------------|--|
| Maximum mechanical speed | 6000 rpm |
| [Us] rated supply voltage | 115...480 V |
| Phase | Three phase |
| Continuous stall current | 3.5 A |
| Continuous stall torque | 26.02 lbf.in (2.94 N.m) 115...480 V three phase |
| Continuous power | 1190 W |
| Peak stall torque | 84.97 lbf.in (9.6 N.m) 115...480 V three phase |
| Nominal output power | 410 W 115 V single phase 790 W 230 V single phase 1410 W 400 V three phase 1630 W 480 V three phase |
| Nominal torque | 25.76 Lbf.In (2.91 N.m) 115 V single phase 23.37 Lbf.In (2.64 N.m) 230 V single phase 20.09 Lbf.In (2.27 N.m) 400 V three phase 20.09 lbf.in (2.27 N.m) 480 V three phase |
| Nominal speed | 1250 rpm 115 V single phase 2500 rpm 230 V single phase 5000 rpm 400 V three phase 6000 rpm 480 V three phase |
| Maximum current Irms | 12 A |
| Shaft end | Parallel key |
| Shaft diameter | 0.75 in (19 mm) |
| Shaft length | 1.57 in (40 mm) |
| Key width | 0.24 in (6 mm) |
| IP degree of protection | Motor IP65 IEC 60034-5 Shaft bushing IP65 IEC 60034-5 |
| Encoder type | Absolute multiturn SinCos Hiperface |
| Speed feedback resolution | 128 periods |
| Holding brake | Without |
| Mounting Support | International standard flange |
| Motor flange size | 3.94 in (100 mm) |
| Electrical Connection | Rotatable right angled connector |
| Torque constant | 0.84 N.m/A 248 °F (120 °C) |
| Back emf constant | 60 V/krpm 68 °F (20 °C) |
| Number of motor poles | 4 |
| Rotor inertia | 1.4 kg.cm ² |

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| Stator resistance | 3.8 Ohm |
| Stator inductance | 27.15 mH |
| Maximum radial force Fr | 900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm |
| Maximum axial force Fa | 160 N |
| Type of cooling | Natural convection |
| Length | 6.63 in (168.5 mm) |
| Centring collar diameter | 3.74 in (95 mm) |
| Centring collar depth | 0.14 in (3.5 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.35 in (9.0 mm) |
| Circle diameter of the mounting holes | 4.53 in (115 mm) |
| Net Weight | 9.48 lb(US) (4.3 kg) |

Ordering and shipping details

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|-------------------|------------------------------|
| Category | 18359-PACDRIVE3 SERVO MOTORS |
| Discount Schedule | PC52 |
| GTIN | 3606485296579 |
| Returnability | No |
| Country of origin | DE |

Packing Units

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|------------------------------|-----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 8.27 in (21.0 cm) |
| Package 1 Width | 7.09 in (18.0 cm) |
| Package 1 Length | 14.02 in (35.6 cm) |
| Package 1 Weight | 10.80 lb(US) (4.9 kg) |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| 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 |

Contractual warranty

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| Warranty | 18 months |
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