

SH31001P12A2000

servo motor SH3 100

2,94Nm,key,multi,nobrake,90°conn.IP54/
IP65,6k RPM



Main

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

Complementary

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	Shaft bushing without shaft seal ring IP54 EN/IEC 60034-5 Motor IP65 EN/IEC 60034-5 Shaft bushing IP65 EN/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
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

Category	18359-PACDRIVE3 SERVO MOTORS
Discount Schedule	PC52
GTIN	3606485296562
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.81 in (30.0 cm)
Package 1 Width	11.81 in (30.0 cm)
Package 1 Length	15.75 in (40.0 cm)
Package 1 Weight	9.26 lb(US) (4.2 kg)

Offer Sustainability

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

Warranty	18 months
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