

# SH31004P12A2000

servo motor SH3 100

10Nm,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	6.2 A
Continuous stall torque	88.51 lbf.in (10 N.m) 115...480 V three phase
Continuous power	2500 W
Peak stall torque	358.45 lbf.in (40.5 N.m) 115...480 V three phase
Nominal output power	780 W 115 V single phase 1490 W 230 V single phase 2480 W 400 V three phase 2600 W 480 V three phase
Nominal torque	87.62 Lbf.In (9.9 N.m) 115 V single phase 84.08 Lbf.In (9.5 N.m) 230 V single phase 69.92 Lbf.In (7.9 N.m) 400 V three phase 61.07 lbf.in (6.9 N.m) 480 V three phase
Nominal speed	750 rpm 115 V single phase 1500 rpm 230 V single phase 3000 rpm 400 V three phase 3600 rpm 480 V three phase
Maximum current Irms	32.3 A
Shaft end	Parallel key
Shaft diameter	0.94 in (24 mm)
Shaft length	1.97 in (50 mm)
Key width	0.31 in (8 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	Straight connector
Torque constant	1.62 N.m/A 248 °F (120 °C)
Back emf constant	103 V/krpm 68 °F (20 °C)
Number of motor poles	4

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Rotor inertia	4.22 kg.cm <sup>2</sup>
Stator resistance	1.81 Ohm
Stator inductance	18.35 mH
Maximum radial force Fr	1070 N 1000 rpm 850 N 2000 rpm 740 N 3000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	10.89 in (276.5 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	20.28 lb(US) (9.2 kg)

## Ordering and shipping details

Category	18359-PACDRIVE3 SERVO MOTORS
Discount Schedule	PC52
GTIN	3606485297354
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	22.49 lb(US) (10.2 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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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