

servo motor SH3 140 19,5Nm,key,multi,nobrake, 90°conn.IP54/IP65,4k RPM

SH31402P12A2000

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

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

Complementary

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Maximum mechanical speed	4000 rpm	
[Us] rated supply voltage	115480 V	
Phase	Three phase	
Continuous stall current	13.2 A	
Continuous stall torque	172.6 lbf.in (19.5 N.m) 115480 V three phase	
Continuous power	3900 W	
Peak stall torque	531.9 lbf.in (60.1 N.m) 115480 V three phase	
Nominal output power	1460 W 115 V single phase 2690 W 230 V single phase 3860 W 400 V three phase 3660 W 480 V three phase	
Nominal torque	164.6 lbf.in (18.6 N.m) 115 V single phase 151.3 lbf.in (17.1 N.m) 230 V single phase 108.9 lbf.in (12.3 N.m) 400 V three phase 85.9 lbf.in (9.7 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	44.1 A	
Shaft end	Parallel key	
Shaft diameter	0.9 in (24 mm)	
Shaft length	2.0 in (50 mm)	
key width	0.3 in (8 mm)	
IP degree of protection	IP54 shaft bushing without shaft seal ring: conforming to IEC 60034-5 IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to 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	5.5 in (140 mm)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Electrical Connection	Rotatable right angled connector	
Torque constant	1.47 N.m/A 248 °F (120 °C)	
Back emf constant	101 V/krpm 68 °F (20 °C)	
Number of motor poles	5.0	
Rotor inertia	12.68 kg.cm²	
Stator resistance	0.6 Ohm	
Stator inductance	3.855 mH	
Maximum radial force Fr	2240 N 1000 rpm 1780 N 2000 rpm 1550 N 3000 rpm	
Maximum axial force Fa	300 N	
type of cooling	Natural convection	
Length	10.7 in (272.5 mm)	
Centring collar diameter	5.1 in (130 mm)	
centring collar depth	0.1 in (3.5 mm)	
Number of mounting holes	4	
Mounting holes diameter	0.4 in (11 mm)	
Circle diameter of the mounting holes	6.5 in (165 mm)	
Net Weight	36.6 lb(US) (16.6 kg)	
Sizing reference	SH31402P	
Network number of phases	3	
Temperature copper hot	266 °F (130 °C)	
compatible drive output current 3s peak 2	45 A	
Electrical connection	rotatable right angled connector	

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485297811
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	23.23 in (59.0 cm)
Package weight(Lbs)	38.1 lb(US) (17.3 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	9121
Environmental Disclosure	Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	551bda90-6344-4885-ae10-ff30060ba035
REACh Regulation	REACh Declaration
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
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No