Product data sheet

Specifications

servo motor SH3 140 11,1Nm,nokey,single,nobrake, 90Â°conn.IP65/IP65,4k RPM

SH31401P01A2100

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

Maximum mechanical speed	4000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	7.8 A
Continuous stall torque	98.2 lbf.in (11.1 N.m) 115...480 V three phase
Continuous power	2900 W
Peak stall torque	239.0 lbf.in (27 N.m) 115...480 V three phase
Nominal output power	860 W 115 V single phase 1670 W 230 V single phase 2890 W 400 V three phase 3170 W 480 V three phase
Nominal torque	96.92 lbf.in (10.95 N.m) 115 V single phase 93.8 lbf.in (10.6 N.m) 230 V single phase 81.4 lbf.in (9.2 N.m) 400 V three phase 74.3 lbf.in (8.4 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	20.8 A
Shaft end	Smooth shaft
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
IP degree of protection	IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5
Encoder type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting Support	International standard flange
Motor flange size	5.5 in (140 mm)
Electrical Connection	Rotatable right angled connector

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

Torque constant	1.43 N.m/A 248 °F (120 °C)
Back emf constant	100 V/krpm 68 °F (20 °C)
Number of motor poles	5.0
Rotor inertia	7.41 kg.cm²
Stator resistance	1.41 Ohm
Stator inductance	8.17 mH
Maximum radial force Fr	1930 N 1000 rpm 1530 N 2000 rpm 1340 N 3000 rpm
Maximum axial force Fa	300 N
type of cooling	Natural convection
Length	8.6 in (217.5 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	26.2 lb(US) (11.9 kg)
Sizing reference	SH31401P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
compatible drive output current 3s peak 2	15 A
Electrical connection	rotatable right angled connector

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606481550637
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	23.23 in (59 cm)
Package 1 Width	7.87 in (20 cm)
Package 1 Length	10.24 in (26 cm)
Package weight(Lbs)	24.7 lb(US) (11.2 kg)

Contractual warranty

Warranty	18 months

Environmental Data

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)	**6826**
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	**Ead0850d-370a-47c5-8cf7-1d93c2c974a4**
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**