

Product data sheet

Specifications



servo motor SH3 140
27,8Nm,nokey,single,brake,
90°conn.IP65/IP67,4k RPM

SH31403P01F2200

⚠ Discontinued on: Feb 18, 2022

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Main

Range compatibility	PacDrive 3
Device short name	SH3.....P
Product or component type	Servo motor

Complementary

Maximum mechanical speed	4000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	17.6 A
Continuous stall torque	246.05 lbf.in (27.8 N.m) 115...480 V three phase
Continuous power	4100 W
Peak stall torque	798.3 lbf.in (90.2 N.m) 115...480 V three phase
Nominal output power	1940 W 115 V single phase 3330 W 230 V single phase 4050 W 400 V three phase 3430 W 480 V three phase
Nominal torque	218.6 lbf.in (24.7 N.m) 115 V single phase 187.6 lbf.in (21.2 N.m) 230 V single phase 114.2 lbf.in (12.9 N.m) 400 V three phase 80.5 lbf.in (9.1 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	61 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 IP67 housing: conforming to IEC 60034-5
Encoder type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	318.6 lbf.in (36 N.m)
Mounting support	International standard flange

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Motor flange size	5.5 in (140 mm)
Electrical connection	Rotatable right angled connector
Torque constant	1.58 N.m/A 248 °F (120 °C)
Back emf constant	105 V/krpm 68 °F (20 °C)
Number of motor poles	5
Rotor inertia	23.44 kg.cm²
Stator resistance	0.4 Ohm
Stator inductance	7.72 mH
Maximum radial force Fr	2420 N 1000 rpm 1920 N 2000 rpm 1670 N 3000 rpm
Maximum axial force Fa	300 N
Type of cooling	Natural convection
Length	14.4 in (365.5 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	50.9 lb(US) (23.1 kg)
Sizing reference	SH31403P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	rotatable right angled connector

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.2 in (26.0 cm)
Package 1 Width	7.9 in (20.0 cm)
Package 1 Length	23.2 in (59.0 cm)
Package 1 Weight	46.859 lb(US) (21.255 kg)

Contractual warranty

Warranty (in months)	18
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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 >](#)

Use Better

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	Yes

Use Longer

Lifetime extension	
Repair	No

Use Again

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