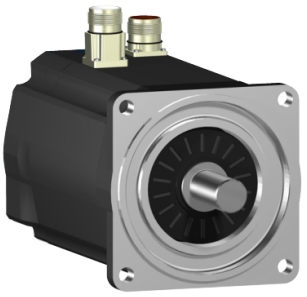
Product data sheet

Specifications

Green Premium™



servo motor SH3 140 11,1Nm,nokey,single,brake,str.conn, IP54/IP65,4k RPM

SH31401P01F1000

Discontinued on: Oct 11, 2021

Discontinued

Product availability: Stock - Normally stocked in distribution facility

Main

Range Compatibility	PacDrive 3
Product Or Component Type	Servo motor
Device Short Name	SH3.....P

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	98.24 lbf.in (11.1 N.m) 115...480 V three phase
Continuous Power	2900 W
Peak Stall Torque	238.97 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 93.82 lbf.in (10.6 N.m) 230 V single phase 81.43 lbf.in (9.2 N.m) 400 V three phase 74.35 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	0.94 in (24 mm)
Shaft Length	1.97 in (50 mm)
Ip Degree Of Protection	IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5 IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5
Encoder Type	Absolute single turn SinCos Hiperface
Speed Feedback Resolution	128 periods
Holding Brake	With
Holding Torque	203.57 lbf.in (23 N.m)

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

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

Mounting Support	International standard flange
Motor Flange Size	5.51 in (140 mm)
Electrical Connection	Straight connector
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
Rotor Inertia	9.21 kg.cm²
Stator Resistance	1.41 Ohm
Stator Inductance	23.72 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	10.06 in (255.5 mm)
Centring Collar Diameter	5.12 in (130 mm)
Centring Collar Depth	0.14 in (3.5 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.43 in (11 mm)
Circle Diameter Of The Mounting Holes	6.50 in (165 mm)
Net Weight	28.66 lb(US) (13 kg)

Ordering and shipping details

Category	18359-PACDRIVE3 SERVO MOTORS
Discount Schedule	PC52
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	0.39 in (1 cm)
Package 1 Width	0.39 in (1 cm)
Package 1 Length	0.39 in (1 cm)
Package 1 Weight	2.20 lb(US) (1 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
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