

# servo motor SH3 140 19,5Nm,nokey,single,nobrake, 90°conn.IP54/IP65,4k RPM

SH31402P01A2000

EAN Code: 3606485297637

### 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	115480 V	
Network number of phases	Three phase	
Continuous stall current	13.2 A	
Continuous stall torque	19.5 N.m at 115480 V three phase	
Continuous power	3900 W	
Peak stall torque	60.1 N.m at 115480 V three phase	
Nominal output power	1460 W at 115 V single phase 2690 W at 230 V single phase 3860 W at 400 V three phase 3660 W at 480 V three phase	
Nominal torque	18.6 N.m at 115 V single phase 17.1 N.m at 230 V single phase 12.3 N.m at 400 V three phase 9.7 N.m at 480 V three phase	
Nominal speed	750 rpm at 115 V single phase 1500 rpm at 230 V single phase 3000 rpm at 400 V three phase 3600 rpm at 480 V three phase	
Maximum current Irms	44.1 A	
Shaft end	Smooth shaft	
Shaft diameter	24 mm	
Shaft length	50 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 single turn SinCos Hiperface	
Speed feedback resolution	128 periods	
Holding brake	Without	
Mounting support	International standard flange	
Motor flange size	140 mm	
Electrical connection	Rotatable right angled connector	

Torque constant	1.47 N.m/A at 120 °C	
Back emf constant	101 V/krpm at 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 at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm	
Maximum axial force Fa	300 N	
type of cooling	Natural convection	
Length	272.5 mm	
Centring collar diameter	130 mm	
centring collar depth	3.5 mm	
Number of mounting holes	4	
Mounting holes diameter	11 mm	
Circle diameter of the mounting holes	165 mm	
Net weight	16.6 kg	
Sizing reference	SH31402P	
Network number of phases	3	
Temperature copper hot	130 °C	
compatible drive output current 3s peak 2	45 A	
Electrical connection	rotatable right angled connector	

# **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	59.0 cm
Package 1 Weight	17.3 kg

## **Logistical informations**

Country of origin DE

## **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.eq.CO2 per CR, Total Life cycle)	9121
Environmental Disclosure	Product Environmental Profile

### **Use Better**

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
PVC free	Yes

### Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins