

# Product datasheet

Specifications



servo motor SH3 140  
33,4Nm,nokey,multi,nobrake,  
90°conn.IP54/IP65,4k RPM

SH31404P02A2000

EAN Code: 3606485298139

## 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
Network number of phases	Three phase
Continuous stall current	21.3 A
Continuous stall torque	33.4 N.m at 115...480 V three phase
Continuous power	4040 W
Peak stall torque	131.9 N.m at 115...480 V three phase
Nominal output power	2370 W at 115 V single phase 4130 W at 230 V single phase 4040 W at 400 V three phase 4190 W at 480 V three phase
Nominal torque	30.2 N.m at 115 V single phase 26.3 N.m at 230 V single phase 12.9 N.m at 400 V three phase 11.1 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	95.6 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 multiturn 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

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

<b>Torque constant</b>	1.57 N.m/A at 120 °C
<b>Back emf constant</b>	104 V/krpm at 20 °C
<b>Number of motor poles</b>	5.0
<b>Rotor inertia</b>	23.7 kg.cm <sup>2</sup>
<b>Stator resistance</b>	0.28 Ohm
<b>Stator inductance</b>	2.035 mH
<b>Maximum radial force Fr</b>	2660 N at 1000 rpm 2110 N at 2000 rpm 1840 N at 3000 rpm
<b>Maximum axial force Fa</b>	300 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	382.5 mm
<b>Centring collar diameter</b>	130 mm
<b>Centring collar depth</b>	3.5 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	11 mm
<b>Circle diameter of the mounting holes</b>	165 mm
<b>Net weight</b>	26 kg
<b>Sizing reference</b>	SH31404P
<b>Network number of phases</b>	3
<b>Temperature copper hot</b>	130 °C
<b>Electrical connection</b>	rotatable right angled connector
<b>Output current 3s peak</b>	95.6 A
<b>Inertia</b>	0.0 kg.cm <sup>2</sup> of brake 23.7 kg.cm <sup>2</sup> of motor

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	40.000 cm
<b>Package 1 Width</b>	31.000 cm
<b>Package 1 Length</b>	80.000 cm
<b>Package 1 Weight</b>	28.000 kg

## Logistical informations

<b>Country of origin</b>	DE
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## Contractual warranty

<b>Warranty (in months)</b>	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 >](#)



### Environmental footprint

Total lifecycle Carbon footprint	9 592 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	123 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	9 463 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.

## Use Better



### Materials and Substances

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

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

End of life manual availability	No need of specific recycling operations
Take-back	Nej