

Product datasheet

Specifications



SH3 servomotor, 140mm, 4 stacks, smooth Shaft, SinCos Multiturn 128, no Brake, angular, IP54/65

SH31404P02A2000

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

Torque constant	1.57 N.m/A at 120 °C
Back emf constant	104 V/krpm at 20 °C
Number of motor poles	5.0
Rotor inertia	23.7 kg.cm²
Stator resistance	0.28 Ohm
Stator inductance	2.035 mH
Maximum radial force Fr	2660 N at 1000 rpm 2110 N at 2000 rpm 1840 N at 3000 rpm
Maximum axial force Fa	300 N
Type of cooling	Natural convection
Length	382.5 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
Product weight	26 kg
Sizing reference	SH31404P
Network number of phases	3
Temperature copper hot	130 °C
Electrical connection	rotatable right angled connector
Output current 3s peak	95.6 A
Inertia	0.0 kg.cm² of brake 23.7 kg.cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	40.000 cm
Package 1 Width	31.000 cm
Package 1 Length	80.000 cm
Package 1 Weight	28.000 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 >](#)



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	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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	Yes