

Product datasheet

Specifications



servo motor SH3 100
8Nm,key,multi,brake,90°conn.IP54/
IP65,6k RPM

SH31003P12F2000

EAN Code: 3606485297156

Main

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

Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	6.6 A
Continuous stall torque	8 N.m at 115...480 V three phase
Continuous power	2400 W
Peak stall torque	28.3 N.m at 115...480 V three phase
Nominal output power	790 W at 115 V single phase 1470 W at 230 V single phase 2390 W at 400 V three phase 2560 W at 480 V three phase
Nominal torque	5.1 N.m at 480 V three phase 7.5 N.m at 115 V single phase 7 N.m at 230 V single phase 5.7 N.m at 400 V three phase
Nominal speed	1000 rpm at 115 V single phase 2000 rpm at 230 V single phase 4000 rpm at 400 V three phase 4800 rpm at 480 V three phase
Maximum current Irms	28.3 A
Shaft end	Parallel key
Shaft diameter	19 mm
Shaft length	40 mm
key width	6 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	With
Holding torque	9 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	100 mm
Electrical connection	Straight connector
Torque constant	1.22 N.m/A at 120 °C
Back emf constant	77 V/krpm at 20 °C
Number of motor poles	4.0
Rotor inertia	3.838 kg.cm²
Stator resistance	1.43 Ohm
Stator inductance	4.7 mH
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm
Maximum axial force Fa	160 N
type of cooling	Natural convection
Length	271.5 mm
Centring collar diameter	95 mm
centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9.0 mm
Circle diameter of the mounting holes	115 mm
Net weight	8 kg
Sizing reference	SH31003P
Network number of phases	3
Temperature copper hot	130 °C
compatible drive output current 3s peak 2	15 A
Electrical connection	rotatable right angled connector

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.000 cm
Package 1 Width	29.000 cm
Package 1 Length	60.500 cm
Package 1 Weight	10.246 kg
Unit Type of Package 2	P12
Number of Units in Package 2	12
Package 2 Height	45.000 cm
Package 2 Width	80.000 cm
Package 2 Length	120.000 cm
Package 2 Weight	134.952 kg

Logistical informations

Country of origin	DE
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Contractual warranty

Warranty	18 months
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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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	5643
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
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