

Product datasheet

Specifications



servo motor SH3 140
19,5Nm,key,multi,brake,
90°conn.IP54/IP65,4k RPM

SH31402P12F2000

EAN Code: 3606485297842

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	13.2 A
Continuous stall torque	19.5 N.m at 115...480 V three phase
Continuous power	3900 W
Peak stall torque	60.1 N.m at 115...480 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	Parallel key
Shaft diameter	24 mm
Shaft length	50 mm
key width	8 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	23 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	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	14.48 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	310.5 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	17.7 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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.700 cm
Package 1 Width	26.000 cm
Package 1 Length	59.500 cm
Package 1 Weight	19.100 kg
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	160.800 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)	9128
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