

Product data sheet

Specifications



SH3 servomotor, 70mm, 2 stacks,
keyed Shaft, SinCos Singleturn 128,
Brake, angular, IP65/65

SH30702P11F2100

Main

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

Complementary

Maximum mechanical speed	8000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	2.9 A
Continuous stall torque	18.06 lbf.in (2.04 N.m) 115...480 V three phase
Continuous power	1130 W
Peak stall torque	67.3 lbf.in (7.6 N.m) 115...480 V three phase
Nominal output power	340 W 115 V single phase 660 W 230 V single phase 1190 W 400 V three phase 1360 W 480 V three phase
Nominal torque	19.03 lbf.in (2.15 N.m) 115 V single phase 18.6 lbf.in (2.1 N.m) 230 V single phase 15.9 lbf.in (1.8 N.m) 400 V three phase 15.9 lbf.in (1.8 N.m) 480 V three phase
Nominal speed	1500 rpm 115 V single phase 3000 rpm 230 V single phase 6000 rpm 400 V three phase 7200 rpm 480 V three phase
Maximum current Irms	11.8 A
Shaft end	Parallel key
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 mm)
Key width	0.2 in (4 mm)
IP degree of protection	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	With
Holding torque	26.6 lbf.in (3 N.m)
Mounting support	International standard flange

Motor flange size	2.8 in (70 mm)
Electrical connection	Straight connector
Torque constant	0.7 N.m/A 248 °F (120 °C)
Back emf constant	48 V/krpm 68 °F (20 °C)
Number of motor poles	3.0
Rotor inertia	0.482 kg.cm ²
Stator resistance	4.2 Ohm
Stator inductance	29.65 mH
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	8.4 in (212.5 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.2 in (82 mm)
Net weight	6.6 lb(US) (3 kg)
Sizing reference	SH30702P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	rotatable right angled connector
Output current 3s peak	11.8 A
Inertia	0.11 kg.cm ² of brake 0.0 kg.cm ² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 in (11.5 cm)
Package 1 Width	7.5 in (19.0 cm)
Package 1 Length	15.6 in (39.5 cm)
Package 1 Weight	7.9 lb(US) (3.6 kg)

Contractual warranty

Warranty (in months)	18
----------------------	----



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	2 816 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	16 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.5 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 799 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 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
--------	----

Use Again



Repack and remanufacture

Circularity Profile	No need of specific recycling operations
Take-back	No