

# Product data sheet

Specifications



servo motor SH3 070  
2,94Nm,key,multi,nobrake,  
90° conn.IP65/IP65,8k RPM

SH30703P12A2100

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## 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
Phase	Three phase
Continuous stall current	4.1 A
Continuous stall torque	26.02 lbf.in (2.94 N.m) 115...480 V three phase
Continuous power	1330 W
Peak stall torque	100.01 lbf.in (11.3 N.m) 115...480 V three phase
Nominal output power	460 W 115 V single phase 880 W 230 V single phase 1450 W 400 V three phase 1550 W 480 V three phase
Nominal torque	26.11 lbf.in (2.95 N.m) 115 V single phase 24.8 lbf.in (2.8 N.m) 230 V single phase 18.6 lbf.in (2.1 N.m) 400 V three phase 18.6 lbf.in (2.1 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	17.0 A
Shaft end	Parallel key
Shaft diameter	0.6 in (14 mm)
Shaft length	1.2 in (30 mm)
Key width	0.2 in (5 mm)
IP degree of protection	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	2.8 in (70 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Electrical Connection	Rotatable right angled connector
Torque constant	0.72 N.m/A 248 °F (120 °C)
Back emf constant	49 V/krpm 68 °F (20 °C)
Number of motor poles	3.0
Rotor inertia	0.58 kg.cm <sup>2</sup>
Stator resistance	2.7 Ohm
Stator inductance	7.3 mH
Maximum radial force Fr	730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	8.7 in (220 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	7.9 lb(US) (3.6 kg)
Sizing reference	SH30703P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	rotatable right angled connector
Output current 3s peak	17.0 A
Inertia	0.0 kg.cm <sup>2</sup> of brake 0.58 kg.cm <sup>2</sup> of motor

## Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485296340
Returnability	Yes
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	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 weight(Lbs)	9.04 lb(US) (4.1 kg)

# Contractual warranty

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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	3 426 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	18 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]	3 407 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
PVC free	Yes

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

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