

# Product datasheet

Specifications



servo motor SH3 070  
2,04Nm,key,single,brake,  
90°conn.IP54/IP65,8k RPM

SH30702P11F2000

EAN Code: 3606485296050

## 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	2.04 N.m at 115...480 V three phase
Continuous power	1130 W
Peak stall torque	7.6 N.m at 115...480 V three phase
Nominal output power	340 W at 115 V single phase 660 W at 230 V single phase 1190 W at 400 V three phase 1360 W at 480 V three phase
Nominal torque	2.15 N.m at 115 V single phase 2.1 N.m at 230 V single phase 1.8 N.m at 400 V three phase 1.8 N.m at 480 V three phase
Nominal speed	1500 rpm at 115 V single phase 3000 rpm at 230 V single phase 6000 rpm at 400 V three phase 7200 rpm at 480 V three phase
Maximum current Irms	11.8 A
Shaft end	Parallel key
Shaft diameter	11 mm
Shaft length	23 mm
key width	4 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 single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	3 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	70 mm
Electrical connection	Straight connector
Torque constant	0.7 N.m/A at 120 °C
Back emf constant	48 V/krpm at 20 °C
Number of motor poles	3.0
Rotor inertia	0.482 kg.cm²
Stator resistance	4.2 Ohm
Stator inductance	29.65 mH
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	80 N
type of cooling	Natural convection
Length	212.5 mm
Centring collar diameter	60 mm
centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	3 kg
Sizing reference	SH30702P
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	11.000 cm
Package 1 Width	19.000 cm
Package 1 Length	39.500 cm
Package 1 Weight	3.686 kg
Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	11.708 kg
Unit Type of Package 3	P12

Number of Units in Package 3	12
Package 3 Height	45.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	58.832 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)	2816
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

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>
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