

servo motor SH3 070 1,25Nm,key,multi,brake, 90°conn.IP54/IP65,8k RPM

SH30701P12F2000

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485295862

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	115480 V	
Network number of phases	Three phase	
Continuous stall current	1.8 A	
Continuous stall torque	1.25 N.m at 115480 V three phase	
Continuous power	690 W	
Peak stall torque	3.5 N.m at 115480 V three phase	
Nominal output power	220 W at 115 V single phase 440 W at 230 V single phase 820 W at 400 V three phase 950 W at 480 V three phase	
Nominal torque	1.4 N.m at 115 V single phase 1.4 N.m at 230 V single phase 1.1 N.m at 400 V three phase 1.1 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	5.7 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 multiturn SinCos Hiperface	
Speed feedback resolution	128 periods	
Holding brake	With	
Holding torque	3 N.m	

Mounting support	International standard flange	
Motor flange size	70 mm	
Electrical connection	Straight connector	
Torque constant	0.69 N.m/A at 120 °C	
Back emf constant	46 V/krpm at 20 °C	
Number of motor poles	3.0	
Rotor inertia	0.322 kg.cm²	
Stator resistance	10.4 Ohm	
Stator inductance	60.25 mH	
Maximum radial force Fr	660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm	
Maximum axial force Fa	80 N	
type of cooling	Natural convection	
Length	179.5 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	2.3 kg	
Sizing reference	SH30701P	
Network number of phases	3	
Temperature copper hot	130 °C	
compatible drive output current 3s peak 2	6 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	39.000 cm
Package 1 Weight	2.944 kg
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	12.426 kg

Unit Type of Package 3	P12
Number of Units in Package 3	16
Package 3 Height	45.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	61.704 kg

Contractual warranty

Warranty 18 months



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)	1948
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