

# Product datasheet

## Characteristics

**SH30701P12F2200**  
servo motor SH3 070  
1,4Nm,key,multi,brake,90°conn.IP65/IP67,8k  
RPM



### Main

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

### Complementary

Maximum mechanical speed	8000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	1.8 A
Continuous stall torque	1.4 N.m at 115...480 V three phase
Peak stall torque	3.5 N.m at 115...480 V three phase
Nominal output power	220 W at 115 V three phase 440 W at 230 V three phase 820 W at 400 V three phase 950 W at 480 V three phase
Nominal torque	1.4 N.m at 115 V three phase 1.4 N.m at 230 V three phase 1.3 N.m at 400 V three phase 1.26 N.m at 480 V three phase
Nominal speed	1500 rpm at 115 V three phase 3000 rpm at 230 V three phase 6000 rpm at 400 V three phase 7200 rpm at 480 V three phase
Maximum current $I_{rms}$	5.7 A
Shaft end	Parallel key
Shaft diameter	11 mm
Shaft length	23 mm
Key width	4 mm
IP degree of protection	IP65 motor: conforming to EN/IEC 60034-5

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

IP65 shaft bushing: conforming to EN/IEC 60034-5  
IP67 housing: conforming to EN/IEC 60034-5

Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	2 N.m
Mounting support	International standard flange
Motor flange size	70 mm
Torque constant	0.8 N.m/A at 120 °C
Back emf constant	46 V/krpm at 20 °C
Number of motor poles	3
Rotor inertia	0.322 kg.cm <sup>2</sup>
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
Product weight	2.3 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### Contractual warranty

Warranty	18 months
----------	-----------