

# Product data sheet

## Characteristics

### SH30701P02F2100

servo motor SH3 070

1,25Nm,nokey,multi,brake,90°conn.IP65/  
IP65,8k RPM



#### Main

Range compatibility	PacDrive 3
Device short name	SH3.....P
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	1.8 A
Continuous stall torque	1.25 N.m at 115...480 V three phase
Continuous power	690 W
Peak stall torque	3.5 N.m at 115...480 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 I <sub>rms</sub>	5.7 A
Shaft end	Smooth shaft
Shaft diameter	11 mm
Shaft length	23 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	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

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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
Net weight	2.3 kg

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	2.9 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	 <a href="#">REACh Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
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
PVC free	Yes

### Contractual warranty

Warranty	18 months
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