

# Product data sheet

Specifications



## servo motor SH3 070

1,25Nm,key,single,brake,90°conn.IP54/  
IP65,8k RPM

SH30701P11F2000

**Product availability : Stock - Normally stocked in distribution facility**

### 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
Phase	Three phase
Continuous stall current	1.8 A
Continuous stall torque	11.06 lbf.in (1.25 N.m) 115...480 V three phase
Continuous power	690 W
Peak stall torque	30.98 lbf.in (3.5 N.m) 115...480 V three phase
Nominal output power	220 W 115 V single phase 440 W 230 V single phase 820 W 400 V three phase 950 W 480 V three phase
Nominal torque	12.39 lbf.in (1.4 N.m) 115 V single phase 12.39 lbf.in (1.4 N.m) 230 V single phase 9.74 lbf.in (1.1 N.m) 400 V three phase 9.74 lbf.in (1.1 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	5.7 A
Shaft end	Parallel key
Shaft diameter	0.43 in (11 mm)
Shaft length	0.91 in (23 mm)
Key width	0.16 in (4 mm)
IP degree of protection	Shaft bushing without shaft seal ring IP54 EN/IEC 60034-5 Motor IP65 EN/IEC 60034-5 Shaft bushing IP65 EN/IEC 60034-5
Encoder type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods

<b>Holding brake</b>	With
<b>Holding torque</b>	17.70 lbf.in (2 N.m)
<b>Mounting Support</b>	International standard flange
<b>Motor flange size</b>	2.76 in (70 mm)
<b>Electrical Connection</b>	Straight connector
<b>Torque constant</b>	0.69 N.m/A 248 °F (120 °C)
<b>Back emf constant</b>	46 V/krpm 68 °F (20 °C)
<b>Number of motor poles</b>	3
<b>Rotor inertia</b>	0.322 kg.cm <sup>2</sup>
<b>Stator resistance</b>	10.4 Ohm
<b>Stator inductance</b>	60.25 mH
<b>Maximum radial force Fr</b>	660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm 380 N 5000 rpm 360 N 6000 rpm
<b>Maximum axial force Fa</b>	80 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	7.07 in (179.5 mm)
<b>Centring collar diameter</b>	2.36 in (60 mm)
<b>Centring collar depth</b>	0.10 in (2.5 mm)
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	0.22 in (5.5 mm)
<b>Circle diameter of the mounting holes</b>	3.23 in (82 mm)
<b>Net Weight</b>	5.07 lb(US) (2.3 kg)

## Ordering and shipping details

<b>Category</b>	18359-PACDRIVE3 SERVO MOTORS
<b>Discount Schedule</b>	PC52
<b>GTIN</b>	3606485295824
<b>Returnability</b>	No
<b>Country of origin</b>	DE

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.53 in (11.5 cm)
<b>Package 1 Width</b>	7.48 in (19.0 cm)
<b>Package 1 Length</b>	15.55 in (39.5 cm)
<b>Package 1 Weight</b>	6.39 lb(US) (2.9 kg)

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
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<b>California proposition 65</b>	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>
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<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
<b>PVC free</b>	Yes

## Contractual warranty

<b>Warranty</b>	18 months
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## Recommended replacement(s)