

# Product data sheet

## Characteristics

# SH30702P02F1200

## servo motor SH3 070

2,2Nm,nokey,multi,brake,str.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	2.9 A
Continuous stall torque	2.2 N.m at 115...480 V three phase
Peak stall torque	7.6 N.m at 115...480 V three phase
Nominal output power	1360 W at 480 V three phase 1190 W at 400 V three phase 660 W at 230 V three phase 340 W at 115 V three phase
Nominal torque	1.8 N.m at 480 V three phase 1.9 N.m at 400 V three phase 2.1 N.m at 230 V three phase 2.15 N.m at 115 V three phase
Nominal speed	7200 rpm at 480 V three phase 6000 rpm at 400 V three phase 3000 rpm at 230 V three phase 1500 rpm at 115 V three phase
Maximum current I <sub>rms</sub>	11.8 A
Shaft end	Smooth shaft
Shaft diameter	11 mm
Shaft length	23 mm
Key width	4 mm
IP degree of protection	IP67 (housing) conforming to EN/IEC 60034-5 IP65 (shaft bushing) conforming to EN/IEC 60034-5 IP65 (motor) 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
Electrical connection	Straight connector
Torque constant	0.77 N.m/A at -20...40 °C
Back emf constant	48 V/krpm at 20 °C
Number of motor poles	3
Rotor inertia	0.482 kg.cm <sup>2</sup>
Stator resistance	4.2 Ohm at -20...40 °C

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Stator inductance	29.65 mH at -20...40 °C
Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 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
Product weight	3 kg