

# Product datasheet

## Characteristics

### SH30553P02F2200

servo motor SH3 055

1,2Nm,nokey,multi,brake,90°conn.IP65/IP67,9k RPM



## Main

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

## Complementary

Maximum mechanical speed	9000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	1.7 A
Continuous stall torque	1.2 N.m at 115...480 V three phase
Peak stall torque	3.5 N.m at 115...480 V three phase
Nominal output power	240 W at 115 V three phase 460 W at 230 V three phase 880 W at 400 V three phase 970 W at 480 V three phase
Nominal torque	1.13 N.m at 115 V three phase 1.1 N.m at 230 V three phase 1.05 N.m at 400 V three phase 1.03 N.m at 480 V three phase
Nominal speed	4000 rpm at 230 V three phase 9000 rpm at 480 V three phase 2000 rpm at 115 V three phase 8000 rpm at 400 V three phase
Maximum current Irms	6.5 A
Shaft end	Smooth shaft
Shaft diameter	9 mm
Shaft length	20 mm
IP degree of protection	IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: 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

Encoder type	Absolute multturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	0.8 N.m
Mounting support	International standard flange
Motor flange size	55 mm
Torque constant	0.7 N.m/A at 120 °C
Back emf constant	41 V/krpm at 20 °C
Number of motor poles	3
Rotor inertia	0.155 kg.cm <sup>2</sup>
Stator resistance	10.4 Ohm
Stator inductance	37.98 mH
Maximum radial force Fr	190 N at 8000 rpm 390 N at 1000 rpm 310 N at 2000 rpm 270 N at 3000 rpm 240 N at 4000 rpm 230 N at 5000 rpm 210 N at 6000 rpm 200 N at 7000 rpm
Maximum axial force Fa	40 N
Type of cooling	Natural convection
Length	203 mm
Centring collar diameter	40 mm
Centring collar depth	2 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	63 mm
Product weight	1.9 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
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