

Product data sheet

Characteristics

SH30553P01F2100

servo motor SH3 055

1,05Nm,nokey,single,brake,90°conn.IP65/
IP65,9k RPM



Main

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

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	1.05 N.m at 115...480 V three phase
Continuous power	680 W
Peak stall torque	3.5 N.m at 115...480 V three phase
Nominal output power	240 W at 115 V single phase 460 W at 230 V single phase 880 W at 400 V three phase 970 W at 480 V three phase
Nominal torque	1.13 N.M at 115 V single phase 1.1 N.M at 230 V single phase 0.81 N.M at 400 V three phase 0.81 N.m at 480 V three phase
Nominal speed	4000 rpm at 230 V single phase 9000 rpm at 480 V three phase 2000 rpm at 115 V single phase 8000 rpm at 400 V three phase
Maximum current I _{rms}	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
Encoder type	Absolute single turn 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
Electrical connection	Rotatable right angled connector
Torque constant	0.62 N.m/A at 120 °C
Back emf constant	41 V/krpm at 20 °C
Number of motor poles	3

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Rotor inertia	0.155 kg.cm ²
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
Net weight	1.9 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	2.3 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
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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