

Product data sheet

Characteristics

SH30551P01F2100

servo motor SH3 055 0,5Nm,no key,single,brake,90°conn.IP65/IP65,9k 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	0.73 A
Continuous stall torque	0.5 N.m at 115...480 V three phase
Peak stall torque	1.5 N.m at 115...480 V three phase
Nominal output power	440 W at 480 V three phase 400 W at 400 V three phase 210 W at 230 V three phase 100 W at 115 V three phase
Nominal torque	0.47 N.m at 480 V three phase 0.48 N.m at 400 V three phase 0.5 N.m at 230 V three phase 0.5 N.m at 115 V three phase
Nominal speed	9000 rpm at 480 V three phase 8000 rpm at 400 V three phase 8000 rpm at 230 V three phase 2000 rpm at 115 V three phase
Maximum current I_{rms}	2.9 A
Shaft end	Smooth shaft
Shaft diameter	9 mm
Shaft length	20 mm
IP degree of protection	IP65 (shaft bushing) conforming to EN/IEC 60034-5 IP65 (motor) 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	0.68 N.m/A at -20...40 °C
Back emf constant	40 V/krpm at 20 °C
Number of motor poles	3
Rotor inertia	0.08 kg.cm²
Stator resistance	41.8 Ohm at -20...40 °C

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Stator inductance	108.72 mH at -20...40 °C
Maximum radial force Fr	170 N at 8000 rpm 180 N at 7000 rpm 190 N at 6000 rpm 200 N at 5000 rpm 220 N at 4000 rpm 240 N at 3000 rpm 270 N at 2000 rpm 340 N at 1000 rpm
Maximum axial force Fa	40 N
Type of cooling	Natural convection
Length	159 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	1.3 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1036 -  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available  Download Product Environmental
Product end of life instructions	Need no specific recycling operations