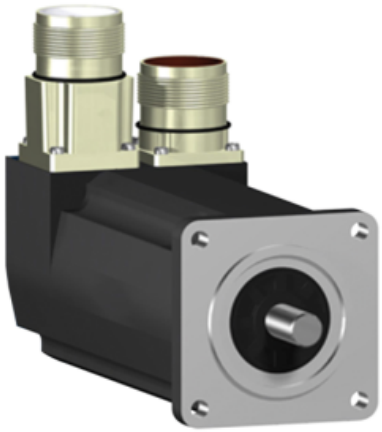
Product data sheet
Characteristics

SH30553P12A1200
servo motor SH3 055
1,2Nm,key,multi,nobrake,str.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	10.62 lbf.in (1.2 N.m) 115...480 V three phase
Peak stall torque	30.98 lbf.in (3.5 N.m) 115...480 V three phase
Nominal output power	240 W 115 V three phase 460 W 230 V three phase 880 W 400 V three phase 970 W 480 V three phase
Nominal torque	10.00 lbf.in (1.13 N.m) 115 V three phase 9.74 lbf.in (1.1 N.m) 230 V three phase 9.29 lbf.in (1.05 N.m) 400 V three phase 9.12 lbf.in (1.03 N.m) 480 V three phase
Nominal speed	4000 rpm at 230 V three phase 9000 rpm at 480 V three phase 2000 rpm 115 V three phase 8000 rpm 400 V three phase
Maximum current Irms	6.5 A
Shaft end	Parallel key
Shaft diameter	0.35 in (9 mm)
Shaft length	0.79 in (20 mm)
Key width	0.12 in (3 mm)

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

IP degree of protection	Motor IP65 EN/IEC 60034-5 Shaft bushing IP65 EN/IEC 60034-5 Housing IP67 EN/IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	2.17 in (55 mm)
Torque constant	0.7 N.m/A at 120 °C
Back emf constant	41 V/krpm 68 °F (20 °C)
Number of motor poles	3
Rotor inertia	0.134 kg.cm²
Stator resistance	10.4 Ohm
Stator inductance	37.98 mH
Maximum radial force Fr	190 N 8000 rpm 390 N 1000 rpm 310 N 2000 rpm 270 N 3000 rpm 240 N 4000 rpm 230 N 5000 rpm 210 N 6000 rpm 200 N 7000 rpm
Maximum axial force Fa	40 N
Type of cooling	Natural convection
Length	6.95 in (176.5 mm)
Centring collar diameter	1.57 in (40 mm)
Centring collar depth	0.08 in (2 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	2.48 in (63 mm)
Net weight	3.97 lb(US) (1.8 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) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
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