

# Product data sheet

## Characteristics

**SH30553P02A2100**  
**servo motor SH3 055**  
**1,2Nm,nokey,multi,nobrake,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	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	970 W at 480 V three phase 880 W at 400 V three phase 460 W at 230 V three phase 240 W at 115 V three phase
Nominal torque	1.03 N.m at 480 V three phase 1.05 N.m at 400 V three phase 1.1 N.m at 230 V three phase 1.13 N.m at 115 V three phase
Nominal speed	4000 rpm at 230 V three phase 9000 rpm at 480 V three phase 8000 rpm at 400 V three phase 2000 rpm at 115 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 (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	Without
Holding torque	0.8 N.m
Mounting support	International standard flange
Motor flange size	55 mm
Electrical connection	Rotatable right angled connector
Torque constant	0.7 N.m/A at -20...40 °C
Back emf constant	41 V/krpm at 20 °C
Number of motor poles	3

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Rotor inertia	0.134 kg.cm <sup>2</sup>
Stator resistance	10.4 Ohm at -20...40 °C
Stator inductance	37.98 mH at -20...40 °C
Maximum radial force Fr	200 N at 7000 rpm 210 N at 6000 rpm 230 N at 5000 rpm 240 N at 4000 rpm 270 N at 3000 rpm 310 N at 2000 rpm 390 N at 1000 rpm 190 N at 8000 rpm
Maximum axial force Fa	40 N
Type of cooling	Natural convection
Length	176.5 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	1.8 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