Product data sheet
Characteristics

SH31002P02F2100
servo motor SH3 100 5,8Nm,nokey,multi,brake,90°conn.IP65/IP65,6k RPM

Main

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

Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	4.8 A
Continuous stall torque	5.8 N.m at 115...480 V three phase
Peak stall torque	18.3 N.m at 115...480 V three phase
Nominal output power	2210 W at 480 V three phase 1930 W at 400 V three phase 1090 W at 230 V three phase 580 W at 115 V three phase
Nominal torque	4.4 N.m at 480 V three phase 4.6 N.m at 400 V three phase 5.2 N.m at 230 V three phase 5.5 N.m at 115 V three phase
Nominal speed	4800 rpm at 480 V three phase 4000 rpm at 400 V three phase 2000 rpm at 230 V three phase 1000 rpm at 115 V three phase
Maximum current Irms	17.1 A
Shaft end	Smooth shaft
Shaft diameter	19 mm
Shaft length	40 mm
Key width	6 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	With
Holding torque	9 N.m
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Rotatable right angled connector
Torque constant	1.21 N.m/A at -20...40 °C
Back emf constant	77 V/krpm at 20 °C

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Number of motor poles	4
Rotor inertia	2.928 kg.cm²
Stator resistance	2.4 Ohm at -20...40 °C
Stator inductance	19.5 mH at -20...40 °C
Maximum radial force Fr	620 N at 4000 rpm 690 N at 3000 rpm 790 N at 2000 rpm 990 N at 1000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	234.5 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Product weight	6.3 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