

Product data sheet

Characteristics

SH32051P12A2000

servo motor SH3 205

36,9Nm,key,multi,nobrake,90°conn.IP54/ IP65,3.8k RPM



Main

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

Complementary

Maximum mechanical speed	3800 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	21 A
Continuous stall torque	36.9 N.m at 115...480 V three phase
Peak stall torque	110 N.m at 115...480 V three phase
Nominal output power	5200 W at 480 V three phase 5500 W at 400 V three phase 4240 W at 230 V three phase 2510 W at 115 V three phase
Nominal torque	13.8 N.m at 480 V three phase 17.5 N.m at 400 V three phase 27 N.m at 230 V three phase 31.9 N.m at 115 V three phase
Nominal speed	3600 rpm at 480 V three phase 3000 rpm at 400 V three phase 1500 rpm at 230 V three phase 750 rpm at 115 V three phase
Maximum current I_{rms}	87.2 A
Shaft end	Parallel key
Shaft diameter	38 mm
Shaft length	80 mm
Key width	10 mm
IP degree of protection	IP65 (shaft bushing) conforming to EN/IEC 60034-5 IP65 (motor) conforming to EN/IEC 60034-5 IP54 (shaft bushing without shaft seal ring) conforming to EN/IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Holding torque	80 N.m
Mounting support	International standard flange
Motor flange size	205 mm
Electrical connection	Rotatable right angled connector
Torque constant	1.6 N.m/A at -20...40 °C
Back emf constant	104 V/krpm at 20 °C

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Number of motor poles	5
Rotor inertia	71.4 kg.cm ²
Stator resistance	0.3 Ohm at -20...40 °C
Stator inductance	8.7 mH at -20...40 °C
Maximum radial force Fr	2580 N at 3000 rpm 2960 N at 2000 rpm 3730 N at 1000 rpm
Maximum axial force Fa	740 N
Type of cooling	Natural convection
Length	321 mm
Centring collar diameter	180 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	14 mm
Circle diameter of the mounting holes	215 mm
Product weight	35 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