

Product data sheet

Characteristics

SH32051P12F2000
servo motor SH3 205
36,9Nm,key,multi,brake,90°conn.IP54/
IP65,3.8k RPM



Main

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

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
Continuous power	5500 W
Peak stall torque	110 N.m at 115...480 V three phase
Nominal output power	2510 W at 115 V single phase 4240 W at 230 V single phase 5500 W at 400 V three phase 5200 W at 480 V three phase
Nominal torque	31.9 N.M at 115 V single phase 27 N.M at 230 V single phase 17.5 N.M at 400 V three phase 13.8 N.m at 480 V three phase
Nominal speed	750 rpm at 115 V single phase 1500 rpm at 230 V single phase 3000 rpm at 400 V three phase 3600 rpm at 480 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	IP54 shaft bushing without shaft seal ring: conforming to IEC 60034-5 IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	80 N.m
Mounting support	International standard flange
Motor flange size	205 mm
Electrical connection	Straight connector
Torque constant	1.6 N.m/A at 120 °C

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Back emf constant	104 V/krpm at 20 °C
Number of motor poles	5
Rotor inertia	87.4 kg.cm ²
Stator resistance	0.3 Ohm
Stator inductance	8.7 mH
Maximum radial force Fr	3730 N at 1000 rpm 2960 N at 2000 rpm 2580 N at 3000 rpm
Maximum axial force Fa	740 N
Type of cooling	Natural convection
Length	370.5 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
Net weight	38.6 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	41.0 cm
Package 1 Width	31.0 cm
Package 1 Length	59.5 cm
Package 1 Weight	43.7 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)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations
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
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