Product datasheet

Specifications

servo motor SH3 055 0,42Nm,key,single,nobrake, 90°conn.IP54/IP65,9k RPM

SH30551P11A2000

Main

Range Compatibility	PacDrive 3
Device Short Name	SH3.....P
Product Or Component Type	Servo motor

Complementary

Maximum Mechanical Speed	9000 rpm
[Us] Rated Supply Voltage	115...480 V
Network Number Of Phases	Three phase
Continuous Stall Current	0.73 A
Continuous Stall Torque	0.42 N.m at 115...480 V three phase
Continuous Power	290 W
Peak Stall Torque	1.5 N.m at 115...480 V three phase
Nominal Output Power	100 W at 115 V single phase 210 W at 230 V single phase 400 W at 400 V three phase 440 W at 480 V three phase
Nominal Torque	0.5 N.m at 115 V single phase 0.5 N.m at 230 V single phase 0.35 N.m at 400 V three phase 0.35 N.m at 480 V three phase
Nominal Speed	9000 rpm at 480 V three phase 2000 rpm at 115 V single phase 8000 rpm at 230 V single phase 8000 rpm at 400 V three phase
Maximum Current Irms	2.9 A
Shaft End	Parallel key
Shaft Diameter	9 mm
Shaft Length	20 mm
Key Width	3 mm
Ip Degree Of Protection	IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5 IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5
Encoder Type	Absolute single turn SinCos Hiperface
Speed Feedback Resolution	128 periods
Holding Brake	Without
Mounting Support	International standard flange
Motor Flange Size	55 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

Electrical Connection	Straight connector
Torque Constant	0.58 N.m/A at 120 °C
Back Emf Constant	40 V/krpm at 20 °C
Number Of Motor Poles	3
Rotor Inertia	0.059 kg.cm²
Stator Resistance	41.8 Ohm
Stator Inductance	108.72 mH
Maximum Radial Force Fr	340 N at 1000 rpm 270 N at 2000 rpm 240 N at 3000 rpm 220 N at 4000 rpm 200 N at 5000 rpm 190 N at 6000 rpm 180 N at 7000 rpm 170 N at 8000 rpm
Maximum Axial Force Fa	40 N
Type Of Cooling	Natural convection
Length	132.5 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
Net Weight	1.2 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	1.6 kg

Contractual warranty

Warranty	18 months

Sustainability

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Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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
Circularity Profile	No need of specific recycling operations