

Product data sheet

Specifications



servo motor SH3 205
36,9Nm,key,multi,nobrake,str.conn,I
P65/IP67,3.8k RPM

SH32051P12A1200

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
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 Irms	87.2 A
Shaft End	Parallel key
Shaft Diameter	38 mm
Shaft Length	80 mm
Key Width	10 mm
Ip Degree Of Protection	IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5 IP67 housing: conforming to EN/IEC 60034-5
Encoder Type	Absolute multiturn SinCos Hiperface
Speed Feedback Resolution	128 periods
Holding Brake	Without
Mounting Support	International standard flange
Motor Flange Size	205 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	1.6 N.m/A at 120 °C
Back Emf Constant	104 V/krpm at 20 °C
Number Of Motor Poles	5
Rotor Inertia	71.4 kg.cm²
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	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
Net Weight	35 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Weight	34.927 kg

Contractual warranty

Warranty	18 months
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Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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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
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov