

# Product data sheet

Specifications



servo motor SH3 205  
94,4Nm,nokey,multi,brake,  
90°conn.IP65/IP65,3.8k RPM

SH32053P02F2100

## 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	33.2 A
Continuous Stall Torque	94.4 N.m at 115...480 V three phase
Continuous Power	10600 W
Peak Stall Torque	330 N.m at 115...480 V three phase
Nominal Output Power	4450 W at 115 V single phase 7790 W at 230 V single phase 10620 W at 400 V three phase 10100 W at 480 V three phase
Nominal Torque	84.9 N.m at 115 V single phase 74.4 N.m at 230 V single phase 50.7 N.m at 400 V three phase 40.2 N.m at 480 V three phase
Nominal Speed	500 rpm at 115 V single phase 1000 rpm at 230 V single phase 2000 rpm at 400 V three phase 2400 rpm at 480 V three phase
Maximum Current Irms	136.1 A
Shaft End	Smooth shaft
Shaft Diameter	38 mm
Shaft Length	80 mm
Ip Degree Of Protection	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

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	2.76 N.m/A at 120 °C
Back Emf Constant	172 V/krpm at 20 °C
Number Of Motor Poles	5
Rotor Inertia	206 kg.cm²
Stator Resistance	0.2 Ohm
Stator Inductance	6.3 mH
Maximum Radial Force Fr	4500 N at 1000 rpm 3570 N at 2000 rpm 3120 N at 3000 rpm
Maximum Axial Force Fa	740 N
Type Of Cooling	Natural convection
Length	538.5 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	70.6 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	40.0 cm
Package 1 Width	30.0 cm
Package 1 Length	79.5 cm
Package 1 Weight	66.86 kg

## Contractual warranty

Warranty	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

✓ Pvc Free

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>