

# Product datasheet

Specifications



servo motor SH3 205  
36,9Nm,nokey,single,brake,  
90° conn.IP54/IP65,3.8k RPM

SH32051P01F2000

⚠ Discontinued on: 9 Feb 2023

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## 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 Irms	87.2 A
Shaft end	Smooth shaft
Shaft diameter	38 mm
Shaft length	80 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 single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	80 N.m
Mounting support	International standard flange

<b>Motor flange size</b>	205 mm
<b>Electrical connection</b>	Rotatable right angled connector
<b>Torque constant</b>	1.6 N.m/A at 120 °C
<b>Back emf constant</b>	104 V/krpm at 20 °C
<b>Number of motor poles</b>	5
<b>Rotor inertia</b>	87.4 kg.cm <sup>2</sup>
<b>Stator resistance</b>	0.3 Ohm
<b>Stator inductance</b>	8.7 mH
<b>Maximum radial force Fr</b>	3730 N at 1000 rpm 2960 N at 2000 rpm 2580 N at 3000 rpm
<b>Maximum axial force Fa</b>	740 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	370.5 mm
<b>Centring collar diameter</b>	180 mm
<b>Centring collar depth</b>	4 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	14 mm
<b>Circle diameter of the mounting holes</b>	215 mm
<b>Net weight</b>	38.6 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	41.0 cm
<b>Package 1 Width</b>	31.0 cm
<b>Package 1 Length</b>	59.5 cm
<b>Package 1 Weight</b>	43.7 kg

## Contractual warranty

<b>Warranty</b>	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.

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



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information [Yes](#)

Pvc Free

## Certifications & Standards

**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