

# Product datasheet

Specifications



servo motor SH3 055  
1,05Nm,nokey,single,brake,  
90°conn.IP54/IP65,9k RPM

SH30553P01F2000

EAN Code: 3606485295442

## Main

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

## Complementary

|                           |  |
|---------------------------|--|
| Maximum Mechanical Speed  | 9000 rpm   |
| [Us] Rated Supply Voltage | 115...480 V  |
| Network Number Of Phases  | Three phase  |
| Continuous Stall Current  | 1.7 A  |
| Continuous Stall Torque   | 1.05 N.m at 115...480 V three phase  |
| Continuous Power          | 680 W  |
| Peak Stall Torque         | 3.5 N.m at 115...480 V three phase   |
| Nominal Output Power      | 240 W at 115 V single phase<br>460 W at 230 V single phase<br>880 W at 400 V three phase<br>970 W at 480 V three phase   |
| Nominal Torque            | 1.13 N.m at 115 V single phase<br>1.1 N.m at 230 V single phase<br>0.81 N.m at 400 V three phase<br>0.81 N.m at 480 V three phase  |
| Nominal Speed             | 4000 rpm at 230 V single phase<br>9000 rpm at 480 V three phase<br>2000 rpm at 115 V single phase<br>8000 rpm at 400 V three phase                                       |
| Maximum Current Irms      | 6.5 A  |
| Shaft End                 | Smooth shaft   |
| Shaft Diameter            | 9 mm   |
| Shaft Length              | 20 mm  |
| Ip Degree Of Protection   | IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5<br>IP65 motor: conforming to EN/IEC 60034-5<br>IP65 shaft bushing: conforming to EN/IEC 60034-5 |
| Encoder Type              | Absolute single turn SinCos Hiperface  |
| Speed Feedback Resolution | 128 periods  |
| Holding Brake             | With   |
| Holding Torque            | 0.8 N.m  |
| Mounting Support          | International standard flange  |
| Motor Flange Size         | 55 mm  |

|  |  |
|--|--|
| <b>Electrical Connection</b>                 | Rotatable right angled connector   |
| <b>Torque Constant</b>                       | 0.62 N.m/A at 120 °C   |
| <b>Back Emf Constant</b>                     | 41 V/krpm at 20 °C   |
| <b>Number Of Motor Poles</b>                 | 3  |
| <b>Rotor Inertia</b>                         | 0.155 kg.cm <sup>2</sup>   |
| <b>Stator Resistance</b>                     | 10.4 Ohm   |
| <b>Stator Inductance</b>                     | 37.98 mH   |
| <b>Maximum Radial Force Fr</b>               | 190 N at 8000 rpm<br>390 N at 1000 rpm<br>310 N at 2000 rpm<br>270 N at 3000 rpm<br>240 N at 4000 rpm<br>230 N at 5000 rpm<br>210 N at 6000 rpm<br>200 N at 7000 rpm |
| <b>Maximum Axial Force Fa</b>                | 40 N   |
| <b>Type Of Cooling</b>                       | Natural convection   |
| <b>Length</b>                                | 203 mm   |
| <b>Centring Collar Diameter</b>              | 40 mm  |
| <b>Centring Collar Depth</b>                 | 2 mm   |
| <b>Number Of Mounting Holes</b>              | 4  |
| <b>Mounting Holes Diameter</b>               | 5.5 mm   |
| <b>Circle Diameter Of The Mounting Holes</b> | 63 mm  |
| <b>Net Weight</b>                            | 1.9 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>             | 11.5 cm |
| <b>Package 1 Width</b>              | 19.0 cm |
| <b>Package 1 Length</b>             | 39.5 cm |
| <b>Package 1 Weight</b>             | 2.4 kg  |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

## 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.


[Learn more >](#)



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)

[EU RoHS Declaration](#)

**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