

# Product datasheet

Specifications



servo motor SH3 055  
0,71Nm,nokey,multi,brake,  
90°conn.IP54/IP65,9k RPM

SH30552P02F2000

EAN Code: 3606485295305

## Main

|                           |             |
|---------------------------|-------------|
| Range compatibility       | PacDrive 3  |
| Device short name         | SH3         |
| 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  | 1.2 A   |
| Continuous stall torque   | 0.71 N.m at 115...480 V three phase   |
| Continuous power          | 530 W   |
| Peak stall torque         | 2.5 N.m at 115...480 V three phase  |
| Nominal output power      | 160 W at 115 V single phase<br>310 W at 230 V single phase<br>600 W at 400 V three phase<br>670 W at 480 V three phase  |
| Nominal torque            | 0.77 N.m at 115 V single phase<br>0.75 N.m at 230 V single phase<br>0.63 N.m at 400 V three phase<br>0.63 N.m at 480 V three phase                              |
| Nominal speed             | 2000 rpm at 115 V single phase<br>4000 rpm at 230 V single phase<br>8000 rpm at 400 V three phase<br>8000 rpm at 480 V three phase                              |
| Maximum current Irms      | 4.8 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 IEC 60034-5<br>IP65 motor: conforming to IEC 60034-5<br>IP65 shaft bushing: conforming to IEC 60034-5 |
| Encoder type              | Absolute multiturn 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   |

|  |  |
|--|--|
| Electrical connection                        | Rotatable right angled connector   |
| Torque constant                              | 0.59 N.m/A at 120 °C   |
| Back emf constant                            | 40 V/krpm at 20 °C   |
| Number of motor poles                        | 3.0  |
| Rotor inertia                                | 0.117 kg.cm <sup>2</sup>   |
| Stator resistance                            | 17.4 Ohm   |
| Stator inductance                            | 18.2 mH  |
| Maximum radial force Fr                      | 370 N at 1000 rpm<br>290 N at 2000 rpm<br>260 N at 3000 rpm<br>230 N at 4000 rpm<br>220 N at 5000 rpm<br>200 N at 6000 rpm<br>190 N at 7000 rpm<br>190 N at 8000 rpm |
| Maximum axial force Fa                       | 40 N   |
| Type of cooling                              | Natural convection   |
| Length                                       | 181 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                                   | 1.6 kg   |
| Sizing reference                             | SH30552P   |
| Network number of phases                     | 3  |
| Temperature copper hot                       | 130 °C   |
| compatible drive output current<br>3s peak 2 | 6 A  |
| Electrical connection                        | rotatable right angled connector   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 11 cm    |
| Package 1 Width              | 19 cm    |
| Package 1 Length             | 39.5 cm  |
| Package 1 Weight             | 2.145 kg |
| Unit Type of Package 2       | S04      |
| Number of Units in Package 2 | 3        |
| Package 2 Height             | 30 cm    |
| Package 2 Width              | 40 cm    |
| Package 2 Length             | 60 cm    |
| Package 2 Weight             | 7.194 kg |
| Unit Type of Package 3       | P06      |

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|                                     |           |
|-------------------------------------|-----------|
| <b>Number of Units in Package 3</b> | 12        |
| <b>Package 3 Height</b>             | 75 cm     |
| <b>Package 3 Width</b>              | 60 cm     |
| <b>Package 3 Length</b>             | 80 cm     |
| <b>Package 3 Weight</b>             | 36.776 kg |

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## Logistical informations

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|                          |    |
|--------------------------|----|
| <b>Country of origin</b> | DE |
|--------------------------|----|

## Contractual warranty

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



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 1430

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number Ead0850d-370a-47c5-8cf7-1d93c2c974a4

REACH Regulation [REACH Declaration](#)

PVC free Yes

## Use Again

### Repack and remanufacture

End of life manual availability No need of specific recycling operations

Take-back No