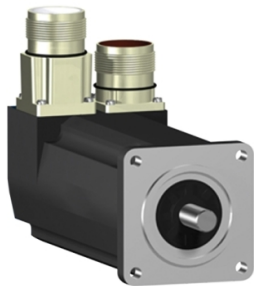


# Product datasheet

Specifications



SH3 servomotor, 55mm, 3 stacks,  
smooth Shaft, SinCos Multiturn 128,  
Brake, straight, IP65/67

SH30553P02F1200

⚠ Discontinued on: 30 Jun 2023

⚠ Discontinued

## 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  | 1.7 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             | 2000 rpm at 115 V single phase<br>4000 rpm at 230 V single phase<br>6000 rpm at 400 V three phase<br>6000 rpm at 480 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   | IP65 motor: conforming to IEC 60034-5<br>IP65 shaft bushing: conforming to IEC 60034-5<br>IP67 housing: 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                                                                                                      |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                                       |                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor flange size                     | 55 mm                                                                                                                                                                |
| Electrical connection                 | Straight connector                                                                                                                                                   |
| Torque constant                       | 0.62 N.m/A at 120 °C                                                                                                                                                 |
| Back emf constant                     | 41 V/krpm at 20 °C                                                                                                                                                   |
| Number of motor poles                 | 3                                                                                                                                                                    |
| Rotor inertia                         | 0.155 kg.cm²                                                                                                                                                         |
| Stator resistance                     | 10.4 Ohm                                                                                                                                                             |
| Stator inductance                     | 37.98 mH                                                                                                                                                             |
| Maximum radial force Fr               | 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 |
| Maximum axial force Fa                | 40 N                                                                                                                                                                 |
| Type of cooling                       | Natural convection                                                                                                                                                   |
| Length                                | 203 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                            | 1.9 kg                                                                                                                                                               |
| Sizing reference                      | SH30553P                                                                                                                                                             |
| Network number of phases              | 3                                                                                                                                                                    |
| Temperature copper hot                | 130 °C                                                                                                                                                               |
| Electrical connection                 | straight connector                                                                                                                                                   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 1.796 kg |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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 >](#)

### Use Better

| Materials and Substances          |                                                            |
|-----------------------------------|------------------------------------------------------------|
| <a href="#">EU RoHS Directive</a> | Pro-active compliance (Product out of EU RoHS legal scope) |
| PVC free                          | Yes                                                        |

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture        |                                          |
|---------------------------------|------------------------------------------|
| End of life manual availability | No need of specific recycling operations |