



## Main

|                           |             |
|---------------------------|-------------|
| Range compatibility       | PacDrive 3  |
| Device short name         | SH3.....P   |
| 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  | 0.73 A                                                                                                                                                                   |
| Continuous stall torque   | 0.42 N.m at 115...480 V three phase                                                                                                                                      |
| Continuous power          | 290 W                                                                                                                                                                    |
| Peak stall torque         | 1.5 N.m at 115...480 V three phase                                                                                                                                       |
| Nominal output power      | 100 W at 115 V single phase<br>210 W at 230 V single phase<br>400 W at 400 V three phase<br>440 W at 480 V three phase                                                   |
| Nominal torque            | 0.5 N.M at 115 V single phase<br>0.5 N.M at 230 V single phase<br>0.35 N.M at 400 V three phase<br>0.35 N.m at 480 V three phase                                         |
| Nominal speed             | 9000 rpm at 480 V three phase<br>2000 rpm at 115 V single phase<br>8000 rpm at 230 V single phase<br>8000 rpm at 400 V three phase                                       |
| Maximum current Irms      | 2.9 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 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     | Straight connector                                                                                                                                                       |
| Torque constant           | 0.58 N.m/A at 120 °C                                                                                                                                                     |
| Back emf constant         | 40 V/krpm at 20 °C                                                                                                                                                       |

|                                       |                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of motor poles                 | 3                                                                                                                                                                    |
| Rotor inertia                         | 0.08 kg.cm <sup>2</sup>                                                                                                                                              |
| Stator resistance                     | 41.8 Ohm                                                                                                                                                             |
| Stator inductance                     | 108.72 mH                                                                                                                                                            |
| Maximum radial force Fr               | 340 N at 1000 rpm<br>270 N at 2000 rpm<br>240 N at 3000 rpm<br>220 N at 4000 rpm<br>200 N at 5000 rpm<br>190 N at 6000 rpm<br>180 N at 7000 rpm<br>170 N at 8000 rpm |
| Maximum axial force Fa                | 40 N                                                                                                                                                                 |
| Type of cooling                       | Natural convection                                                                                                                                                   |
| Length                                | 159 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                            | 1.3 kg                                                                                                                                                               |

### Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 11.5 cm  |
| Package 1 Width              | 19.0 cm  |
| Package 1 Length             | 39.5 cm  |
| Package 1 Weight             | 1.837 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             | 6.351 kg |
| Package 3 Height             | 77 cm    |

### Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                       |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                                                                                                                       |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                                  |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                                                                                                                                  |
| RoHS exemption information |  <a href="#">Yes</a>                                                                                                                                                                                     |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>                                                                                                                                                           |
| Circularity Profile        | No need of specific recycling operations                                                                                                                                                                                                                                                    |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins                                                                                                                                                                 |
| PVC free                   | Yes                                                                                                                                                                                                                                                                                         |
| 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> |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|