



## Main

|                           |             |
|---------------------------|-------------|
| Range compatibility       | PacDrive 3  |
| Device short name         | SH3.....P   |
| Product or component type | Servo motor |

## Complementary

|                           |                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Maximum mechanical speed  | 8000 rpm                                                                                                                           |
| [Us] rated supply voltage | 115...480 V                                                                                                                        |
| Network number of phases  | Three phase                                                                                                                        |
| Continuous stall current  | 4.1 A                                                                                                                              |
| Continuous stall torque   | 2.94 N.m at 115...480 V three phase                                                                                                |
| Continuous power          | 1330 W                                                                                                                             |
| Peak stall torque         | 11.3 N.m at 115...480 V three phase                                                                                                |
| Nominal output power      | 460 W at 115 V single phase<br>880 W at 230 V single phase<br>1450 W at 400 V three phase<br>1550 W at 480 V three phase           |
| Nominal torque            | 2.95 N.M at 115 V single phase<br>2.8 N.M at 230 V single phase<br>2.1 N.M at 400 V three phase<br>2.1 N.m at 480 V three phase    |
| Nominal speed             | 1500 rpm at 115 V single phase<br>3000 rpm at 230 V single phase<br>6000 rpm at 400 V three phase<br>7200 rpm at 480 V three phase |
| Maximum current Irms      | 17 A                                                                                                                               |
| Shaft end                 | Smooth shaft                                                                                                                       |
| Shaft diameter            | 14 mm                                                                                                                              |
| Shaft length              | 30 mm                                                                                                                              |
| IP degree of protection   | IP65 motor: conforming to IEC 60034-5<br>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            | 3 N.m                                                                                                                              |
| Mounting support          | International standard flange                                                                                                      |
| Motor flange size         | 70 mm                                                                                                                              |
| Electrical connection     | Straight connector                                                                                                                 |
| Torque constant           | 0.72 N.m/A at 120 °C                                                                                                               |
| Back emf constant         | 49 V/krpm at 20 °C                                                                                                                 |
| Number of motor poles     | 3                                                                                                                                  |
| Rotor inertia             | 0.807 kg.cm <sup>2</sup>                                                                                                           |

|                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Stator resistance                     | 2.7 Ohm                                                                                                                    |
| Stator inductance                     | 20.3 mH                                                                                                                    |
| Maximum radial force Fr               | 730 N at 1000 rpm<br>580 N at 2000 rpm<br>510 N at 3000 rpm<br>460 N at 4000 rpm<br>430 N at 5000 rpm<br>400 N at 6000 rpm |
| Maximum axial force Fa                | 80 N                                                                                                                       |
| Type of cooling                       | Natural convection                                                                                                         |
| Length                                | 254 mm                                                                                                                     |
| Centring collar diameter              | 60 mm                                                                                                                      |
| Centring collar depth                 | 2.5 mm                                                                                                                     |
| Number of mounting holes              | 4                                                                                                                          |
| Mounting holes diameter               | 5.5 mm                                                                                                                     |
| Circle diameter of the mounting holes | 82 mm                                                                                                                      |
| Net weight                            | 3.8 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             | 4.5 kg  |

### 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                                                                                                                               |

### Contractual warranty

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