



## Main

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

## Complementary

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Maximum mechanical speed  | 6000 rpm                                                                                                                         |
| [Us] rated supply voltage | 115...480 V                                                                                                                      |
| Network number of phases  | Three phase                                                                                                                      |
| Continuous stall current  | 3.5 A                                                                                                                            |
| Continuous stall torque   | 3.3 N.m at 115...480 V three phase                                                                                               |
| Peak stall torque         | 9.6 N.m at 115...480 V three phase                                                                                               |
| Nominal output power      | 410 W at 115 V three phase<br>790 W at 230 V three phase<br>1410 W at 400 V three phase<br>1630 W at 480 V three phase           |
| Nominal torque            | 3.15 N.m at 115 V three phase<br>3 N.m at 230 V three phase<br>2.7 N.m at 400 V three phase<br>2.6 N.m at 480 V three phase      |
| Nominal speed             | 1250 rpm at 115 V three phase<br>2500 rpm at 230 V three phase<br>5000 rpm at 400 V three phase<br>6000 rpm at 480 V three phase |
| Maximum current Irms      | 12 A                                                                                                                             |
| Shaft end                 | Parallel key                                                                                                                     |
| Shaft diameter            | 19 mm                                                                                                                            |
| Shaft length              | 40 mm                                                                                                                            |
| Key width                 | 6 mm                                                                                                                             |
| IP degree of protection   | IP65 motor: conforming to EN/IEC 60034-5                                                                                         |

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Encoder type                          | Absolute multiturn SinCos Hiperface                                                                   |
| Speed feedback resolution             | 128 periods                                                                                           |
| Holding brake                         | With                                                                                                  |
| Holding torque                        | 9 N.m                                                                                                 |
| Mounting support                      | International standard flange                                                                         |
| Motor flange size                     | 100 mm                                                                                                |
| Torque constant                       | 0.89 N.m/A at 120 °C                                                                                  |
| Back emf constant                     | 60 V/krpm at 20 °C                                                                                    |
| Number of motor poles                 | 4                                                                                                     |
| Rotor inertia                         | 2.018 kg.cm <sup>2</sup>                                                                              |
| Stator resistance                     | 3.8 Ohm                                                                                               |
| Stator inductance                     | 27.15 mH                                                                                              |
| Maximum radial force Fr               | 900 N at 1000 rpm<br>720 N at 2000 rpm<br>630 N at 3000 rpm<br>570 N at 4000 rpm<br>530 N at 5000 rpm |
| Maximum axial force Fa                | 160 N                                                                                                 |
| Type of cooling                       | Natural convection                                                                                    |
| Length                                | 199.5 mm                                                                                              |
| Centring collar diameter              | 95 mm                                                                                                 |
| Centring collar depth                 | 3.5 mm                                                                                                |
| Number of mounting holes              | 4                                                                                                     |
| Mounting holes diameter               | 9 mm                                                                                                  |
| Circle diameter of the mounting holes | 115 mm                                                                                                |
| Product weight                        | 4.8 kg                                                                                                |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</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 |

### Contractual warranty

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