



## Main

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

## Complementary

|                           |                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum mechanical speed  | 6000 rpm                                                                                                                                                                 |
| [Us] rated supply voltage | 115...480 V                                                                                                                                                              |
| Network number of phases  | Three phase                                                                                                                                                              |
| Continuous stall current  | 4.8 A                                                                                                                                                                    |
| Continuous stall torque   | 5.8 N.m at 115...480 V three phase                                                                                                                                       |
| Continuous power          | 1900 W                                                                                                                                                                   |
| Peak stall torque         | 18.3 N.m at 115...480 V three phase                                                                                                                                      |
| Nominal output power      | 580 W at 115 V single phase<br>1090 W at 230 V single phase<br>1930 W at 400 V three phase<br>2210 W at 480 V three phase                                                |
| Nominal torque            | 5.5 N.M at 115 V single phase<br>5.2 N.M at 230 V single phase<br>4.6 N.M at 400 V three phase<br>4.4 N.m at 480 V three phase                                           |
| Nominal speed             | 1000 rpm at 115 V single phase<br>2000 rpm at 230 V single phase<br>4000 rpm at 400 V three phase<br>4800 rpm at 480 V three phase                                       |
| Maximum current Irms      | 17.1 A                                                                                                                                                                   |
| Shaft end                 | Smooth shaft                                                                                                                                                             |
| Shaft diameter            | 19 mm                                                                                                                                                                    |
| Shaft length              | 40 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            | 9 N.m                                                                                                                                                                    |
| Mounting support          | International standard flange                                                                                                                                            |
| Motor flange size         | 100 mm                                                                                                                                                                   |
| Electrical connection     | Rotatable right angled connector                                                                                                                                         |
| Torque constant           | 1.21 N.m/A at 120 °C                                                                                                                                                     |
| Back emf constant         | 77 V/krpm at 20 °C                                                                                                                                                       |

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Number of motor poles                 | 4                                                                                |
| Rotor inertia                         | 2.928 kg.cm <sup>2</sup>                                                         |
| Stator resistance                     | 2.4 Ohm                                                                          |
| Stator inductance                     | 19.5 mH                                                                          |
| Maximum radial force Fr               | 990 N at 1000 rpm<br>790 N at 2000 rpm<br>690 N at 3000 rpm<br>620 N at 4000 rpm |
| Maximum axial force Fa                | 160 N                                                                            |
| Type of cooling                       | Natural convection                                                               |
| Length                                | 234.5 mm                                                                         |
| Centring collar diameter              | 95 mm                                                                            |
| Centring collar depth                 | 3.5 mm                                                                           |
| Number of mounting holes              | 4                                                                                |
| Mounting holes diameter               | 9.0 mm                                                                           |
| Circle diameter of the mounting holes | 115 mm                                                                           |
| Net weight                            | 6.3 kg                                                                           |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 19.3 cm   |
| Package 1 Width              | 22.0 cm   |
| Package 1 Length             | 40.0 cm   |
| Package 1 Weight             | 7.553 kg  |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 12        |
| Package 2 Height             | 45.0 cm   |
| Package 2 Width              | 80.0 cm   |
| Package 2 Length             | 60.0 cm   |
| Package 2 Weight             | 99.136 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 |
|----------|-----------|