



## Main

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

## Complementary

|                           |                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Maximum mechanical speed  | 3800 rpm                                                                                                                        |
| [Us] rated supply voltage | 115...480 V                                                                                                                     |
| Network number of phases  | Three phase                                                                                                                     |
| Continuous stall current  | 21 A                                                                                                                            |
| Continuous stall torque   | 36.9 N.m at 115...480 V three phase                                                                                             |
| Peak stall torque         | 110 N.m at 115...480 V three phase                                                                                              |
| Nominal output power      | 2510 W at 115 V three phase<br>4240 W at 230 V three phase<br>5500 W at 400 V three phase<br>5200 W at 480 V three phase        |
| Nominal torque            | 31.9 N.m at 115 V three phase<br>27 N.m at 230 V three phase<br>17.5 N.m at 400 V three phase<br>13.8 N.m at 480 V three phase  |
| Nominal speed             | 750 rpm at 115 V three phase<br>1500 rpm at 230 V three phase<br>3000 rpm at 400 V three phase<br>3600 rpm at 480 V three phase |
| Maximum current Irms      | 87.2 A                                                                                                                          |
| Shaft end                 | Smooth shaft                                                                                                                    |
| Shaft diameter            | 38 mm                                                                                                                           |
| Shaft length              | 80 mm                                                                                                                           |
| Key width                 | 10 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                        | 80 N.m                                                         |
| Mounting support                      | International standard flange                                  |
| Motor flange size                     | 205 mm                                                         |
| Torque constant                       | 1.6 N.m/A at 120 °C                                            |
| Back emf constant                     | 104 V/krpm at 20 °C                                            |
| Number of motor poles                 | 5                                                              |
| Rotor inertia                         | 87.4 kg.cm <sup>2</sup>                                        |
| Stator resistance                     | 0.3 Ohm                                                        |
| Stator inductance                     | 8.7 mH                                                         |
| Maximum radial force Fr               | 3730 N at 1000 rpm<br>2960 N at 2000 rpm<br>2580 N at 3000 rpm |
| Maximum axial force Fa                | 740 N                                                          |
| Type of cooling                       | Natural convection                                             |
| Length                                | 370.5 mm                                                       |
| Centring collar diameter              | 180 mm                                                         |
| Centring collar depth                 | 4 mm                                                           |
| Number of mounting holes              | 4                                                              |
| Mounting holes diameter               | 14 mm                                                          |
| Circle diameter of the mounting holes | 215 mm                                                         |
| Product weight                        | 38.6 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 |
|----------|-----------|