



## 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  | 33.2 A                                                                                                                                                                      |
| Continuous stall torque   | 94.4 N.m at 115...480 V three phase                                                                                                                                         |
| Peak stall torque         | 330 N.m at 115...480 V three phase                                                                                                                                          |
| Nominal output power      | 10100 W at 480 V three phase<br>10620 W at 400 V three phase<br>7790 W at 230 V three phase<br>4450 W at 115 V three phase                                                  |
| Nominal torque            | 40.2 N.m at 480 V three phase<br>50.7 N.m at 400 V three phase<br>74.4 N.m at 230 V three phase<br>84.9 N.m at 115 V three phase                                            |
| Nominal speed             | 2400 rpm at 480 V three phase<br>2000 rpm at 400 V three phase<br>1000 rpm at 230 V three phase<br>500 rpm at 115 V three phase                                             |
| Maximum current Irms      | 136.1 A                                                                                                                                                                     |
| Shaft end                 | Smooth shaft                                                                                                                                                                |
| Shaft diameter            | 38 mm                                                                                                                                                                       |
| Shaft length              | 80 mm                                                                                                                                                                       |
| Key width                 | 10 mm                                                                                                                                                                       |
| IP degree of protection   | IP65 (shaft bushing) conforming to EN/IEC 60034-5<br>IP65 (motor) conforming to EN/IEC 60034-5<br>IP54 (shaft bushing without shaft seal ring) conforming to EN/IEC 60034-5 |
| Encoder type              | Absolute single turn 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                                                                                                                                                                      |
| Electrical connection     | Rotatable right angled connector                                                                                                                                            |
| Torque constant           | 2.76 N.m/A at -20...40 °C                                                                                                                                                   |
| Back emf constant         | 172 V/krpm at 20 °C                                                                                                                                                         |

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| Number of motor poles                 | 5                                                              |
| Rotor inertia                         | 206 kg.cm <sup>2</sup>                                         |
| Stator resistance                     | 0.2 Ohm at -20...40 °C                                         |
| Stator inductance                     | 6.3 mH at -20...40 °C                                          |
| Maximum radial force Fr               | 3120 N at 3000 rpm<br>3570 N at 2000 rpm<br>4500 N at 1000 rpm |
| Maximum axial force Fa                | 740 N                                                          |
| Type of cooling                       | Natural convection                                             |
| Length                                | 538.5 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                        | 70.6 kg                                                        |

### Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1036 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |