



## Main

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

## Complementary

|                           |                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum mechanical speed  | 8000 rpm                                                                                                                                                                        |
| [Us] rated supply voltage | 115...480 V                                                                                                                                                                     |
| Phase                     | Three phase                                                                                                                                                                     |
| Continuous stall current  | 2.1 A                                                                                                                                                                           |
| Continuous stall torque   | 27.44 lbf.in (3.1 N.m) 115...480 V three phase                                                                                                                                  |
| Peak stall torque         | 100.01 lbf.in (11.3 N.m) 115...480 V three phase                                                                                                                                |
| Nominal output power      | 240 W 115 V three phase<br>460 W 230 V three phase<br>880 W 400 V three phase<br>1030 W 480 V three phase                                                                       |
| Nominal torque            | 26.99 Lbf.in (3.05 N.m) 115 V three phase<br>26.11 Lbf.in (2.95 N.m) 230 V three phase<br>24.78 Lbf.in (2.8 N.m) 400 V three phase<br>24.07 lbf.in (2.72 N.m) 480 V three phase |
| Nominal speed             | 750 rpm 115 V three phase<br>1500 rpm 230 V three phase<br>3000 rpm 400 V three phase<br>3600 rpm 480 V three phase                                                             |
| Maximum current Irms      | 8.7 A                                                                                                                                                                           |
| Shaft end                 | Parallel key                                                                                                                                                                    |
| Shaft diameter            | 0.55 in (14 mm)                                                                                                                                                                 |
| Shaft length              | 1.18 in (30 mm)                                                                                                                                                                 |
| Key width                 | 0.20 in (5 mm)                                                                                                                                                                  |
| IP degree of protection   | Shaft bushing without shaft seal ring IP54 EN/IEC 60034-5<br>Motor IP65 EN/IEC 60034-5<br>Shaft bushing IP65 EN/IEC 60034-5                                                     |
| Encoder type              | Absolute multiturn SinCos Hiperface                                                                                                                                             |
| Speed feedback resolution | 128 periods                                                                                                                                                                     |
| Holding brake             | With                                                                                                                                                                            |
| Holding torque            | 17.70 lbf.in (2 N.m)                                                                                                                                                            |
| Mounting support          | International standard flange                                                                                                                                                   |
| Motor flange size         | 2.76 in (70 mm)                                                                                                                                                                 |
| Torque constant           | 1.48 N.m/A 248 °F (120 °C)                                                                                                                                                      |
| Back emf constant         | 95 V/krpm 68 °F (20 °C)                                                                                                                                                         |
| Number of motor poles     | 3                                                                                                                                                                               |
| Rotor inertia             | 0.807 kg.cm <sup>2</sup>                                                                                                                                                        |
| Stator resistance         | 10.7 Ohm                                                                                                                                                                        |

|                                       |                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------|
| Stator inductance                     | 76.85 mH                                                                                                 |
| Maximum radial force Fr               | 730 N 1000 rpm<br>580 N 2000 rpm<br>510 N 3000 rpm<br>460 N 4000 rpm<br>430 N 5000 rpm<br>400 N 6000 rpm |
| Maximum axial force Fa                | 80 N                                                                                                     |
| Type of cooling                       | Natural convection                                                                                       |
| Length                                | 10.00 in (254 mm)                                                                                        |
| Centring collar diameter              | 2.36 in (60 mm)                                                                                          |
| Centring collar depth                 | 0.10 in (2.5 mm)                                                                                         |
| Number of mounting holes              | 4                                                                                                        |
| Mounting holes diameter               | 0.22 in (5.5 mm)                                                                                         |
| Circle diameter of the mounting holes | 3.23 in (82 mm)                                                                                          |
| Net Weight                            | 8.38 lb(US) (3.8 kg)                                                                                     |

### Contractual warranty

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