

# Product data sheet

Specifications



servo motor SH3 070, 2,04Nm, no key, single, brake, 90°conn, IP65, IP65, 8k RPM

SH30702M01F2100

## 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                                                                                                                       |
| Network Number Of Phases  | Three phase                                                                                                                       |
| Continuous Stall Current  | 1.5 A                                                                                                                             |
| Continuous Stall Torque   | 2.04 N.m at 115...480 V three phase                                                                                               |
| Continuous Power          | 640 W                                                                                                                             |
| Peak Stall Torque         | 7.6 N.m at 115...480 V three phase                                                                                                |
| Nominal Output Power      | 700 W at 115 V single phase<br>340 W at 230 V single phase<br>660 W at 400 V three phase<br>780 W at 480 V three phase            |
| Nominal Torque            | 2.2 N.m at 115 V single phase<br>2.15 N.m at 230 V single phase<br>2.03 N.m at 400 V three phase<br>2.03 N.m at 480 V three phase |
| Nominal Speed             | 750 rpm at 115 V single phase<br>1500 rpm at 230 V single phase<br>3000 rpm at 400 V three phase<br>3600 rpm at 480 V three phase |
| Maximum Current Irms      | 6 A                                                                                                                               |
| Shaft End                 | Smooth shaft                                                                                                                      |
| Shaft Diameter            | 11 mm                                                                                                                             |
| Shaft Length              | 23 mm                                                                                                                             |
| Key Width                 | 4 mm                                                                                                                              |
| Ip Degree Of Protection   | IP65 motor: conforming to IEC 60034-5<br>IP65 shaft bushing: conforming to IEC 60034-5                                            |
| Encoder Type              | Absolute single turn SinCos Hiperface                                                                                             |
| Speed Feedback Resolution | 128 periods                                                                                                                       |
| Holding Brake             | With                                                                                                                              |
| Holding Torque            | 3 N.m                                                                                                                             |
| Mounting Support          | International standard flange                                                                                                     |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Motor Flange Size                     | 70 mm                                                                                                                      |
| Electrical Connection                 | Straight connector                                                                                                         |
| Torque Constant                       | 1.36 N.m/A at 120 °C                                                                                                       |
| Back Emf Constant                     | 95.9 V/krpm at 20 °C                                                                                                       |
| Number Of Motor Poles                 | 3                                                                                                                          |
| Rotor Inertia                         | 0.482 kg.cm²                                                                                                               |
| Stator Resistance                     | 16.4 Ohm                                                                                                                   |
| Stator Inductance                     | 115.7 mH                                                                                                                   |
| Maximum Radial Force Fr               | 710 N at 1000 rpm<br>560 N at 2000 rpm<br>490 N at 3000 rpm<br>450 N at 4000 rpm<br>410 N at 5000 rpm<br>390 N at 6000 rpm |
| Maximum Axial Force Fa                | 80 N                                                                                                                       |
| Type Of Cooling                       | Natural convection                                                                                                         |
| Length                                | 212.5 mm                                                                                                                   |
| Centring Collar Diameter              | 60 mm                                                                                                                      |
| Centring Collar Depth                 | 2.5 mm                                                                                                                     |
| Number Of Mounting Holes              | 4                                                                                                                          |
| Mounting Holes Diameter               | 5.5 mm                                                                                                                     |
| Circle Diameter Of The Mounting Holes | 82 mm                                                                                                                      |
| Net Weight                            | 3 kg                                                                                                                       |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type Of Package 1       | PCE |
| Number Of Units In Package 1 | 1   |

## Contractual warranty

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