

# Rotary drive ERMO-12-ST-E

Part number: 3008525

FESTO



 General operating condition

## Data sheet

| Feature                                            | Value                                                       |
|----------------------------------------------------|-------------------------------------------------------------|
| Size                                               | 12                                                          |
| Design                                             | Electromechanical rotary drive<br>With integrated gear unit |
| Mounting position                                  | optional                                                    |
| Type of mounting                                   | Via female thread                                           |
| Rotation angle                                     | Infinite                                                    |
| Gear unit ratio                                    | 9:1                                                         |
| Nominal torque                                     | 0.15 Nm                                                     |
| Nominal rotary speed                               | 100 rpm                                                     |
| Max. speed at 90°                                  | 200 rpm                                                     |
| Impact energy in end positions                     | 2.0E-5 J                                                    |
| Torsional backlash                                 | 0.2 deg                                                     |
| Repetition accuracy                                | ±0.05 °                                                     |
| Max. axial force                                   | 180 N                                                       |
| Max. radial force                                  | 200 N                                                       |
| Permissible mass moment of inertia                 | 3.0E-4 kgm <sup>2</sup>                                     |
| Product weight                                     | 475 g                                                       |
| Stepper angle for complete step                    | 1.8 deg                                                     |
| Stepping angle tolerance                           | ±5%                                                         |
| Mass moment of inertia JO                          | 0.0079 kgcm <sup>2</sup>                                    |
| Duty cycle                                         | 100%                                                        |
| Nominal operating voltage DC                       | 24 V                                                        |
| Nominal motor current                              | 0.8 A                                                       |
| Insulation protection class                        | B                                                           |
| Type of motor                                      | Stepper motor                                               |
| Rotor position sensor                              | Incremental encoder                                         |
| Rotor position encoder interface                   | RS422 TTL AB channels + zero index                          |
| Rotor position sensor, encoder measuring principle | Optical                                                     |
| Electrical connector system                        | Plug                                                        |
| Approval                                           | RCM trademark                                               |
| CE mark (see declaration of conformity)            | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| CE marking (see declaration of conformity)         | To UK instructions for EMC<br>To UK RoHS instructions       |
| Bending radius, fixed cable                        | ≥60 mm                                                      |
| Interface code, basis                              | E8-35                                                       |

| Feature                | Value                               |
|------------------------|-------------------------------------|
| Degree of protection   | IP40                                |
| Storage temperature    | -20 °C ... 60 °C                    |
| Ambient temperature    | 0 °C ... 50 °C                      |
| Relative air humidity  | 0 - 85%<br>Non-condensing           |
| LABS (PWIS) conformity | VDMA24364 zone III                  |
| Note on materials      | RoHS-compliant                      |
| Material flange        | Wrought aluminium alloy<br>Anodised |
| Material housing       | Wrought aluminium alloy<br>Anodised |