

# Rotary drive ERMO-25-ST-E

Part number: 3008527

FESTO



 General operating condition

## Data sheet

| Feature  | Value   |
|--|---|
| Size   | 25  |
| 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                                     | 2.5 Nm  |
| Nominal rotary speed                               | 66 rpm  |
| Max. speed at 90°                                  | 150 rpm   |
| Impact energy in end positions                     | 1.6E-4 J  |
| Torsional backlash                                 | 0.2 deg   |
| Repetition accuracy                                | ±0.05 °   |
| Max. axial force                                   | 350 N   |
| Max. radial force                                  | 450 N   |
| Permissible mass moment of inertia                 | 0.0065 kgm <sup>2</sup>                                     |
| Product weight                                     | 1350 g  |
| Stepper angle for complete step                    | 1.8 deg   |
| Stepping angle tolerance                           | ±5%   |
| Mass moment of inertia JO                          | 0.114 kgcm <sup>2</sup>                                     |
| Duty cycle   | 100%  |
| Nominal operating voltage DC                       | 24 V  |
| Operating voltage DC for brake                     | 24 V  |
| Power consumption, brake                           | 8 W   |
| Brake holding torque                               | 2.5 Nm  |
| Mass moment of inertia of brake                    | 0.013 kgcm <sup>2</sup>                                     |
| Nominal motor current                              | 3 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 |

| <b>Feature</b>                               | <b>Value</b>                        |
|--|-------------------------------------|
| UKCA marking (see declaration of conformity) | To UK RoHS instructions             |
| Interface code, basis                        | E8-55                               |
| Degree of protection                         | IP40                                |
| Storage temperature                          | -20 °C ... 60 °C                    |
| Ambient temperature                          | 0 °C ... 50 °C                      |
| Relative air humidity                        | Non-condensing                      |
| LABS (PWIS) conformity                       | VDMA24364 zone III                  |
| Note on materials                            | RoHS-compliant                      |
| Material flange                              | Wrought aluminium alloy<br>Anodised |
| Material housing                             | Anodised                            |