

Electric drive ESBF-...-50- -

Part number: 8022601

FESTO



Data sheet

| Feature | Value |
|--|--|
| Size | 50 |
| Stroke | 30 mm...1000 mm |
| Piston rod thread | M16x1.5 |
| Spindle diameter | 20 mm |
| Torsional backlash at piston rod +/- | 0.15 deg |
| Based on standard | ISO 15552 |
| Mounting position | optional |
| Type of motor | Stepper motor Servo motor |
| Position detection | Via proximity switch |
| Design | Electric cylinder with ball screw Electric cylinder with lead screw spindle |
| Variants | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Protection against torque/guide | With plain-bearing guide |
| Duty cycle | 100% |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress 3 - high corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Suitability for the production of Li-ion batteries | Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Cleanroom class | Class 7 according to ISO 14644-1 |
| Storage temperature | -20 °C...60 °C |
| Suitable for use with food | See supplementary material information |
| Relative air humidity | 0 - 95% |
| Degree of protection | IP40 IP65 |
| Ambient temperature | 0 °C...60 °C |
| Max. radial force at drive shaft | 300 N |
| Max. feed force Fx | 5000 N |
| Frictional torque independent of load | 0.3 Nm |

| Feature | Value |
|--------------------------|--|
| Type of mounting | Via female thread Or accessories |
| Interface code, actuator | D50 |
| Note on materials | RoHS-compliant |
| Material cover | Wrought aluminium alloy, smooth anodised |
| Material piston rod | High-alloy stainless steel |
| Material screws | Galvanised steel |
| Material spindle nut | Rolled steel |
| Material spindle | Rolled steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |