

Electric actuator EPCO-25-100-3P-ST-E

Part number: 1470700

FESTO



Data sheet

| Feature | Value |
|--|--|
| Size | 25 |
| Stroke | 100 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M8 |
| Reversing backlash | 100 µm |
| Step angle with full step | 1.8 deg |
| Step angle tolerance | ±5% |
| Screw diameter | 10 mm |
| Spindle pitch | 3 mm/U |
| Max. angle of rotation of the piston rod +/- | 1.5 deg |
| Mounting position | Any |
| Piston rod end | External thread |
| Motor type | Stepper motor |
| Structural design | Electric actuator with ball screw drive |
| Spindle type | Ball screw drive |
| Protection against torsion/guide | With plain-bearing guide |
| Rotor position sensor | Incremental encoder |
| Rotor position sensor interface | RS422 TTL A/B channels + zero index |
| Rotor position sensor measuring principle | Optical |
| Max. acceleration | 10 m/s ² |
| Max. speed | 0.15 m/s |
| Repetition accuracy | ±0.02 mm |
| Duty cycle | 100% |
| Insulation protection class | B |
| Nominal operating voltage DC | 24 V |
| Motor nominal current | 3 A |
| Certification | RCM compliance mark c UL us - Recognized (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |
| Storage temperature | -20 °C ... 60 °C |
| Relative air humidity | 0 - 85 % Non-condensing |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C ... 50 °C |

| Feature | Value |
|---|--|
| Impact energy in the end positions | 2.0E-4 J |
| Max. torque Mx | 0 Nm |
| Max. torque My | 1 Nm |
| Max. torque Mz | 1 Nm |
| Max. feed force Fx | 350 N |
| Guide value for payload, horizontal | 60 kg |
| Guide value for payload, vertical | 30 kg |
| Mass moment of inertia JH per meter of stroke | 0.0487 kgcm ² |
| Mass moment of inertia JL per kg of payload | 0.0023 kgcm ² |
| Mass moment of inertia JO | 0.0933 kgcm ² |
| Moving mass at 0 mm stroke | 145 g |
| Additional weight per 10 mm stroke | 34 g |
| Basic weight with 0 mm stroke | 1125 g |
| Additional moving mass per 10 mm stroke | 2.6 g |
| Electrical connection technology | Plug |
| Type of mounting | With internal thread With accessories |
| Note on materials | Contains paint-wetting impairment substances RoHS-compliant |
| Cover material | Wrought aluminum alloy Smooth anodized |
| Housing material | Wrought aluminum alloy Smooth anodized |
| Piston rod material | High-alloy stainless steel |
| Spindle nut material | Steel |
| Spindle material | Roller bearing steel |
| Material of cylinder barrel | Wrought aluminum alloy Smooth anodized |