

Electric drive EPCO-25-300-10P-ST-E

Part number: 1470777

FESTO



Data sheet

| Feature | Value |
|--|---|
| Size | 25 |
| Stroke | 300 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M8 |
| Reversing backlash theoretical | 0,1 mm |
| Stepper angle for complete step | 1.8 deg |
| Stepping angle tolerance | ±5% |
| Spindle diameter | 10 mm |
| Spindle pitch | 10 mm/U |
| Torsional backlash at piston rod +/- | 1.5 deg |
| Mounting position | optional |
| Piston-rod end | Male thread |
| Type of motor | Stepper motor |
| Design | Electric cylinder With ball screw drive |
| Spindle type | Ball screw drive |
| Protection against torque/guide | With plain-bearing guide |
| Rotor position sensor | Incremental encoder |
| Rotor position encoder interface | RS422 TTL AB channels + zero index |
| Rotor position sensor, encoder measuring principle | Optical |
| Max. acceleration | 10 m/s ² |
| Max. speed | 0.5 m/s |
| Repetition accuracy | ±0.02 mm |
| Duty cycle | 100% |
| Insulation protection class | B |
| Nominal operating voltage DC | 24 V |
| Nominal motor current | 3 A |
| Approval | RCM trademark c UL us - Recognized (OL) |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |

| Feature | Value |
|--|---|
| CE marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Corrosion resistance class CRC | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Storage temperature | -20 °C...60 °C |
| Relative air humidity | 0 - 85% Non-condensing |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C...50 °C |
| Impact energy in end positions | 0.0002 J |
| Max. moment Mx | 0 Nm |
| Max. moment My | 1 Nm |
| Max. moment Mz | 1 Nm |
| Max. feed force Fx | 105 N |
| Reference value effective load, horizontal | 20 kg |
| Reference value effective load, vertical | 10 kg |
| Mass moment of inertia JH per metre of stroke | 0.0578 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.0254 kgcm ² |
| Mass moment of inertia JO | 0.094 kgcm ² |
| Moving mass for 0 mm stroke | 145 g |
| Additional moving mass per 10 mm stroke | 2.6 g |
| Basic weight for 0 mm stroke | 1125 g |
| Additional weight per 10 mm stroke | 34 g |
| Electrical connector system | Plug |
| Type of mounting | Via female thread With accessories |
| Note on materials | RoHS-compliant |
| Material cover | Wrought aluminium alloy Smooth anodised |
| Material housing | Wrought aluminium alloy Smooth anodised |
| Material piston rod | High-alloy stainless steel |
| Material spindle nut | Steel |
| Material spindle | Rolled steel |
| Material cylinder barrel | Wrought aluminium alloy Smooth anodised |