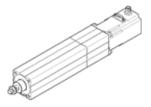
electric cylinder EPCO-40-300-12.7P-ST-E Part number: 1472625

Product to be discontinued

Mechanical linear drive with piston rod and fixed stepper motor. Type to be discontinued. Available until 2025. See Support Portal for alternative products.



Data sheet

| Feature | Value |
|--|--------------------------------------|
| Size | 40 |
| Stroke | 300 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M10x1,25 |
| Reversing backlash | 0.1 mm |
| Stepper angle at full step | 1.8 deg |
| Stepper angle tolerance | ±5 % |
| Spindle diameter | 12.7 mm |
| Spindle pitch | 12.7 mm/U |
| Max. angular deflection of piston rod +/- | 1 deg |
| Assembly position | Any |
| Piston-rod end | Male thread |
| Motor type | Stepper motor |
| Design structure | Electric cylinder |
| | With ball screw |
| Spindle type | Ball screw |
| Protection against torque/guide | with plain-bearing guide |
| Rotor position sensor | Incremental encoder |
| Rotary position encoder interface | RS422 TTL AB-channel + zero index |
| Rotary position encoder measuring principle | Optical |
| Max. acceleration | 10 m/s2 |
| Max. speed | 0.46 m/s |
| Repetition accuracy | ±0,02 mm |
| Duty cycle | 100 % |
| Insulation protection class | В |
| Nominal operating voltage DC | 24 V |
| Nominal motor current | 4.2 A |
| Authorisation | RCM Mark |
| | c UL us - Recognized (OL) |
| CE mark (see declaration of conformity) | to EU directive for EMC |
| | in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC |
| | To UK RoHS instructions |
| Corrosion resistance classification CRC | 1 - Low corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| Storage temperature | -20 60 °C |
| Relative air humidity | 0 - 85 % |
| | non-condensing |
| Protection class | IP40 |
| Ambient temperature | 0 50 °C |
| Impact energy in end positions | 0.0004 J |
| Max. torgue Mx | 0 Nm |

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| Feature | Value |
|--|---------------------------------|
| Max. torque My | 3.3 Nm |
| Max. torque Mz | 3.3 Nm |
| Max. feed force Fx | 250 N |
| Reference value for working load, horizontal | 40 kg |
| Reference value for working load, vertical | 20 kg |
| Mass moment of inertia JH per metre of stroke | 0.167 kgcm2 |
| Mass moment of inertia JL per kg of working load | 0.0409 kgcm2 |
| Mass moment of inertia, JO | 0.3375 kgcm2 |
| Moving mass with 0 mm stroke | 415 g |
| Additional mass factor per 10 mm of stroke | 4.9 g |
| Basic weight for 0 mm stroke | 2,585 g |
| Additional weight per 10 mm stroke | 55 g |
| Electrical connector system | Plug |
| Mounting type | with internal (female) thread |
| | with accessories |
| Materials note | Conforms to RoHS |
| Material cover | Wrought Aluminium alloy |
| | Smooth anodised |
| Material housing | Wrought Aluminium alloy |
| | Smooth anodised |
| Material piston rod | High alloy steel, non-corrosive |
| Material spindle nut | Steel |
| Material spindle | Roller bearing steel |
| Material cylinder barrel | Wrought Aluminium alloy |
| | Smooth anodised |