

Electro-cylinder EPCC-BS-45-75-3P-A

Part number: 5428860

FESTO



Data sheet

| Feature | Value |
|--|--------------------------------------|
| Size | 45 |
| Stroke | 75 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M10x1,25 |
| Reversing backlash | 100 µm |
| Spindle diameter | 10 mm |
| Spindle pitch | 3 mm/U |
| Max. angular deflection of piston rod +/- | 1 deg |
| Assembly position | Any |
| Piston-rod end | Male thread |
| Motor type | Stepper motor Servomotor |
| Position detection | For proximity sensor |
| Design structure | Electric cylinder With ball screw |
| Spindle type | Ball screw |
| Protection against torque/guide | with plain-bearing guide |
| Max. acceleration | 5 m/s ² |
| Max. speed | 0.18 m/s |
| Repetition accuracy | ±0,02 mm |
| Duty cycle | 100 % |
| Corrosion resistance classification CRC | 0 - No corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 9 |
| Storage temperature | -20 ... 60 °C |
| Relative air humidity | 0 - 95 % non-condensing |
| Protection class | IP40 |
| Ambient temperature | 0 ... 60 °C |
| Impact energy in end positions | 0.012 J |
| Max. torque Mx | 0 Nm |
| Max. torque My | 2.9 Nm |
| Max. torque Mz | 2.9 Nm |
| Max. radial force at drive shaft | 180 N |
| Max. feed force Fx | 450 N |
| Reference value for working load, horizontal | 60 kg |
| Reference value for working load, vertical | 30 kg |
| Mass moment of inertia JH per meter of stroke | 0.0503 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.0023 kgcm ² |
| Mass moment of inertia, JO | 0.0109 kgcm ² |
| Moving mass with 0 mm stroke | 179 g |
| Additional mass factor per 10 mm of stroke | 4.9 g |
| Basic weight for 0 mm stroke | 555 g |
| Additional weight per 10 mm stroke | 41 g |
| Mounting type | with internal (female) thread |

| Feature | Value |
|----------------------|---|
| | with accessories |
| Materials note | Conforms to RoHS |
| Material housing | Wrought Aluminum alloy Smooth anodized |
| Material piston rod | High alloy steel, non-corrosive |
| Material spindle nut | Steel |
| Material spindle | Roller bearing steel |