

Electro-cylinder DNCE-63-300-BS-"10"P-Q

Part number: 555471

FESTO

with ball-bearing spindle drive and non-rotating piston rod.



Data sheet

| Feature | Value |
|--|---|
| Working stroke | 300 mm |
| Size | 63 |
| Stroke | 300 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M16x1,5 |
| Reversing backlash | 0.05 mm |
| Spindle diameter | 20 mm |
| Spindle pitch | 10 mm/U |
| Max. angular deflection of piston rod +/- | 0.2 deg |
| Based on the standard | ISO 15552 (previously also VDMA 24652, ISO 6431, NF E49 003.1, UNI 10290) |
| Assembly position | Any |
| Motor type | Stepper motor Servomotor |
| Position detection | For proximity sensor |
| Design structure | Electro-cylinder with ball screw |
| Spindle type | Ball screw spindle |
| Variants | Non-rotating piston rod |
| Protection against torque/guide | with plain-bearing guide |
| Max. acceleration | 6 m/s ² |
| Max. speed | 0.5 m/s |
| Repetition accuracy | +/-0,02 mm |
| Duty cycle | 100% |
| Corrosion resistance classification CRC | 0 |
| Storage temperature | -25 ... 60 °C |
| Relative air humidity | 0 - 95 % |
| Protection class | IP40 |
| Ambient temperature | 0 ... 50 °C |
| Impact energy in end positions | 0.0004 J |
| Permanent drive torque | 4.1 Nm |
| Permanent feed force | 2,000 N |
| Max. drive torque | 4.9 Nm |
| Max. torque for protection against rotation | 1.5 Nm |
| Max. torque M _x | 1.5 Nm |
| Max. radial force at drive shaft | 300 N |
| Max. static axial force F _x | 3,700 N |
| Max. feed force F _x | 2,500 N |
| No-load driving torque | 0.2 Nm |
| Reference value for working load, horizontal | 240 kg |
| Reference value for working load, vertical | 120 kg |
| Mass moment of inertia J _H per metre of stroke | 0.909 kgcm ² |
| Mass moment of inertia J _L per kg of working load | 0.0253 kgcm ² |
| Mass moment of inertia, J _O | 0.7626 kgcm ² |
| Moving mass with 0 mm stroke | 810 g |

| Feature | Value |
|--|---|
| Additional weight per 10 mm stroke | 81.2 g |
| Basic weight for 0 mm stroke | 3,010 g |
| Additional mass factor per 10 mm of stroke | 12.8 g |
| Mounting type | with internal (female) thread with accessories |
| Materials note | Contains PWIS substances Conforms to RoHS |
| Materials information for cover | Aluminium casting Painted |
| Materials information for seals | NBR |
| Materials information, housing | Wrought Aluminium alloy Smooth anodised |
| Materials information for piston rod | High alloy steel, non-corrosive |
| Material information, spindle nut | Roller bearing steel |
| Material information, spindle | Roller bearing steel |
| Materials information for cylinder barrel | Wrought Aluminium alloy Smooth anodised |