

Electric cylinder ESBF-BS-63-300-5P

Part number: 574094

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|--|
| Working stroke | 300 mm |
| Size | 63 |
| Stroke | 300 mm |
| Piston rod thread | M16x1.5 |
| Reversing backlash | 30 µm |
| Screw diameter | 25 mm |
| Spindle pitch | 5 mm/U |
| Max. angle of rotation of the piston rod +/- | 0.4 deg |
| Based on norm | ISO 15552 |
| Mounting position | Any |
| Piston rod end | External thread |
| Motor type | Servo motor |
| Position sensing | For proximity sensor |
| Structural design | Electric cylinder with ball screw |
| Spindle type | Ball screw |
| Symbol | 00991941 |
| Protection against torsion/guide | With plain-bearing guide |
| Max. acceleration | 5 m/s ² |
| Max. rotational speed | 3250 rpm |
| Max. speed | 0.27 m/s |
| Repetition accuracy | ±0.015 mm |
| Duty cycle | 100% |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Storage temperature | -20 °C ... 60 °C |
| For use in the food industry | See supplementary material information |
| Relative air humidity | 0 - 95 % |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C ... 60 °C |
| Max. driving torque | 7 Nm |
| Max. radial force on actuator shaft | 700 N |
| Max. feed force F _x | 7000 N |
| No-load driving torque | 0.4 Nm |
| Guide value for payload, horizontal | 700 kg |
| Guide value for payload, vertical | 700 kg |
| Mass moment of inertia J _H per meter of stroke | 2.8316 kgcm ² |

| Feature | Value |
|---|---|
| Mass moment of inertia JL per kg of payload | 0.00633 kgcm ² |
| Mass moment of inertia JO | 0.49112 kgcm ² |
| Maintenance interval | Life-time lubrication |
| Moving mass at 0 mm stroke | 1829 g |
| Additional moving mass per 10 mm stroke | 52 g |
| Basic weight with 0 mm stroke | 3163 g |
| Additional weight per 10 mm stroke | 87 g |
| Type of mounting | With internal thread or accessory |
| Interface code, actuator | D60 |
| Note on materials | RoHS-compliant |
| Cover material | Die-cast aluminum, coated |
| Piston rod material | High-alloy stainless steel |
| Material of screws | Steel, galvanized |
| Ball screw nut material | Roller bearing steel |
| Spindle material | Roller bearing steel |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized |