

Electric cylinder ESBF-BS-100-200-40P

Part number: 574123

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|--|
| Working stroke | 200 mm |
| Size | 100 |
| Stroke | 200 mm |
| Piston rod thread | M20x1.5 |
| Reversing backlash theoretical | 40 µm |
| Spindle diameter | 40 mm |
| Spindle pitch | 40 mm/U |
| Torsional backlash at piston rod +/- | 0.5 deg |
| Based on standard | ISO 15552 |
| Mounting position | Any |
| Piston-rod end | Male thread |
| Type of motor | Servo motor |
| Position detection | Via proximity switch |
| Design | Electric cylinder with ball screw |
| Spindle type | Ball screw |
| Symbol | 00991941 |
| Protection against torque/guide | With plain-bearing guide |
| Max. acceleration | 25 m/s ² |
| Max. rotational speed | 2010 rpm |
| Max. speed | 1.34 m/s |
| Repetition accuracy | ±0.01 mm |
| Duty cycle | 100% |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Storage temperature | -20 °C ... 60 °C |
| Suitable for use with food | See supplementary material information |
| Relative air humidity | 0 - 95% |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C ... 60 °C |
| Max. drive torque | 102.6 Nm |
| Max. radial force at drive shaft | 1100 N |
| Max. feed force F _x | 14500 N |
| Frictional torque independent of load | 1 Nm |
| Reference value effective load, horizontal | 1400 kg |
| Reference value effective load, vertical | 1400 kg |
| Mass moment of inertia J _H per metre of stroke | 20.372 kgcm ² |

| Feature | Value |
|--|---|
| Mass moment of inertia JL per kg of working load | 0.40528 kgcm ² |
| Mass moment of inertia JO | 6.1704 kgcm ² |
| Maintenance interval | Lifetime lubrication |
| Moving mass for 0 mm stroke | 8786 g |
| Additional moving mass per 10 mm stroke | 132 g |
| Basic weight for 0 mm stroke | 11123 g |
| Additional weight per 10 mm stroke | 193 g |
| Type of mounting | With female thread Or accessories |
| Interface code, actuator | D100 |
| Note on materials | RoHS compliant |
| Material cover | Cast aluminium, coated |
| Material piston rod | High-alloy stainless steel |
| Material screws | Galvanised steel |
| Material ball screw nut | Bearing steel |
| Material spindle | Bearing steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |