

Ball screw axis

EGC-70-100-BS-10P-KF-0H-ML-GK

Part number: 3013388

FESTO



Data sheet

| Feature | Value |
|--|---|
| Working stroke | 100 mm |
| Size | 70 |
| Stroke reserve | 0 mm |
| Screw diameter | 12 mm |
| Spindle pitch | 10 mm/U |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Structural design | Electromechanical linear axis with ball screw |
| Motor type | Stepper motor Servo motor |
| Spindle type | Ball screw |
| Max. acceleration | 15 m/s ² |
| Max. speed | 0.5 m/s |
| Repetition accuracy | ±0.02 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Degree of protection | IP40 |
| Ambient temperature | -10 °C...60 °C |
| 2nd moment of area Iy | 419000 mm ⁴ |
| 2nd moment of area Iz | 578000 mm ⁴ |
| Max. force Fy | 1850 N |
| Max. force Fz | 1850 N |
| Max. force Fy total axis | 1850 N |
| Max. force Fz total axis | 1850 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 6815 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 6815 N |
| Max. torque Mx | 16 Nm |
| Max. torque My | 51 Nm |
| Max. torque Mz | 51 Nm |
| Max. moment Mx total axis | 16 Nm |
| Max. moment My total axis | 51 Nm |

| Feature | Value |
|--|------------------------------------|
| Max. moment Mz total axis | 51 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 59 Nm |
| My with theoretical service life of 100 km (from a guide perspective only) | 188 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 188 Nm |
| Max. radial force on actuator shaft | 220 N |
| Max. feed force Fx | 400 N |
| Torsion moment of inertia It | 88000 mm ⁴ |
| Mass moment of inertia JH per meter of stroke | 0.142 kgcm ² |
| Feed constant | 10 mm/U |
| Reference service life | 5000 km |
| Material of end caps | Wrought aluminum alloy Anodized |
| Moment compensator material | Wrought aluminum alloy Anodized |
| Profile material | Wrought aluminum alloy Anodized |
| Note on materials | RoHS-compliant |
| Drive cover material | Wrought aluminum alloy Anodized |
| Slide carriage material | Steel |
| Guide rail material | Steel |
| Slide material | Wrought aluminum alloy Anodized |
| Spindle nut material | Steel |
| Spindle material | Steel |