

Ball screw axis EGC-80-100-BS-20P-KF-0H-ML-GK

Part number: 3013539

FESTO



General operating condition

Data sheet

| Feature | Value |
|--|----------------------------------|
| Working stroke | 100 mm |
| Size | 80 |
| Stroke reserve | 0 mm |
| Screw diameter | 15 mm |
| Spindle pitch | 20 mm/U |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Structural design | with ball screw |
| Motor type | Stepper motor Servo motor |
| Spindle type | Ball screw |
| Symbol | 00991211 |
| Max. acceleration | 15 m/s ² |
| Max. speed | 1 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 ly | 981000 mm ⁴ |
| 2nd moment of area lz | 1320000 mm ⁴ |
| Max. force Fy | 3050 N |
| Max. force Fz | 3050 N |
| Max. force Fy total axis | 3050 N |
| Max. force Fz total axis | 3050 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 11236 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 11236 N |
| Max. torque Mx | 36 Nm |
| Max. torque My | 97 Nm |
| Max. torque Mz | 97 Nm |
| Max. moment Mx total axis | 36 Nm |
| Max. moment My total axis | 97 Nm |
| Max. moment Mz total axis | 97 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 133 Nm |

| Feature | Value |
|--|------------------------------------|
| My with theoretical service life of 100 km (from a guide perspective only) | 357 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 357 Nm |
| Max. radial force on actuator shaft | 250 N |
| Max. feed force Fx | 650 N |
| Torsion moment of inertia It | 255000 mm ⁴ |
| Mass moment of inertia JH per meter of stroke | 0.346 kgcm ² |
| Feed constant | 20 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 |
| Ball screw nut material | Steel |
| Spindle material | Steel |