

Ball screw axis EGC-80-800-BS-20P-KF-0H-ML-GK

Part number: 3013545

FESTO



General operating condition

Data sheet

| Feature | Value |
|---|----------------------------------|
| Working stroke | 800 mm |
| Size | 80 |
| Stroke reserve | 0 mm |
| Spindle diameter | 15 mm |
| Spindle pitch | 20 mm/U |
| Mounting position | optional |
| Guide | Recirculating ball bearing guide |
| Design | With ball screw |
| Type of motor | 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 at theoretical life value of 100 km (only guide consideration) | 11236 N |
| Fz at theoretical life value of 100 km (only guide consideration) | 11236 N |
| Max. moment Mx | 36 Nm |
| Max. moment My | 97 Nm |
| Max. moment 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 at theoretical life value of 100 km (only guide consideration) | 133 Nm |
| My at theoretical life value of 100 km (only guide consideration) | 357 Nm |

| Feature | Value |
|---|-------------------------------------|
| Mz at theoretical life value of 100 km (only guide consideration) | 357 Nm |
| Max. radial force at drive shaft | 250 N |
| Max. feed force Fx | 650 N |
| Torsional mass moment of inertia It | 255000 mm ⁴ |
| Mass moment of inertia JH per metre of stroke | 0.346 kgcm ² |
| Feed constant | 20 mm/U |
| Reference service life | 5000 km |
| Material end cap | Wrought aluminium alloy Anodised |
| Material driver | Wrought aluminium alloy Anodised |
| Material profile | Wrought aluminium alloy Anodised |
| Note on materials | RoHS-compliant |
| Material drive cover | Wrought aluminium alloy Anodised |
| Material guide slide | Steel |
| Material guide rail | Steel |
| Material slide | Wrought aluminium alloy Anodised |
| Material ball screw nut | Steel |
| Material spindle | Steel |