

Ball screw linear actuator EGC-120-800-BS-25P-KF-0H-ML-GK

Part number: 3013584

FESTO



[General operating condition](#)

Data sheet

| Feature | Value |
|--|---|
| Working stroke | 800 mm |
| Size | 120 |
| Stroke reserve | 0 mm |
| Screw diameter | 25 mm |
| Spindle pitch | 25 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 |
| Symbol | 00991211 |
| Max. acceleration | 15 m/s ² |
| Max. speed | 1.5 m/s ... 1.875 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 | 5820000 mm ⁴ |
| 2nd moment of area Iz | 5010000 mm ⁴ |
| Max. force Fy | 6890 N |
| Max. force Fz | 6890 N |
| Max. force Fy total axis | 6890 N |
| Max. force Fz total axis | 6890 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 25383 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 25383 N |
| Max. torque Mx | 144 Nm |
| Max. torque My | 380 Nm |
| Max. torque Mz | 380 Nm |
| Max. moment Mx total axis | 144 Nm |
| Max. moment My total axis | 380 Nm |
| Max. moment Mz total axis | 380 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 531 Nm |

| Feature | Value |
|--|------------------------------------|
| My with theoretical service life of 100 km (from a guide perspective only) | 1400 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 1400 Nm |
| Max. radial force on actuator shaft | 500 N |
| Max. feed force Fx | 1500 N |
| Torsion moment of inertia It | 1430000 mm ⁴ |
| Mass moment of inertia JH per meter of stroke | 2.756 kgcm ² |
| Feed constant | 25 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 |