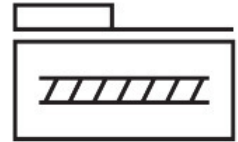


# Ball screw axis

## EGC-80-100-BS-10P-KF-0H-ML-GK

Part number: 3013532

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Working stroke   | 100 mm  |
| Size   | 80  |
| Stroke reserve   | 0 mm  |
| Screw diameter   | 15 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<br>Servo motor                  |
| Spindle type   | Ball screw                                    |
| Max. acceleration  | 15 m/s <sup>2</sup>                           |
| 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  | 981000 mm <sup>4</sup>                        |
| 2nd moment of area Iz  | 1320000 mm <sup>4</sup>                       |
| 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   |

| Feature  | Value                              |
|--|------------------------------------|
| Max. moment Mz total axis  | 97 Nm                              |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 133 Nm                             |
| 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 <sup>4</sup>             |
| Mass moment of inertia JH per meter of stroke                              | 0.346 kgcm <sup>2</sup>            |
| Feed constant  | 10 mm/U                            |
| Reference service life   | 5000 km                            |
| Material of end caps   | Wrought aluminum alloy<br>Anodized |
| Moment compensator material  | Wrought aluminum alloy<br>Anodized |
| Profile material   | Wrought aluminum alloy<br>Anodized |
| Note on materials  | RoHS-compliant                     |
| Drive cover material   | Wrought aluminum alloy<br>Anodized |
| Slide carriage material  | Steel                              |
| Guide rail material  | Steel                              |
| Slide material   | Wrought aluminum alloy<br>Anodized |
| Spindle nut material   | Steel                              |
| Spindle material   | Steel                              |