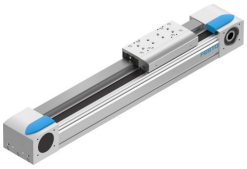
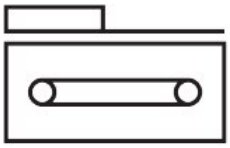
# Belt driven linear actuator
# EGC-120-400-TB-KF-0H-GK

Part number: 3013364





## Data sheet

| Feature | Value |
|---|---|
| Drive pinion effective diameter | 39.79 mm |
| Working stroke | 400 mm |
| Size | 120 |
| Stroke reserve | 0 mm |
| Toothed belt pitch | 5 mm |
| Mounting position | Any |
| Guide | Recirculating ball bearing |
| Structural design | Electromechanical linear axis<br>With toothed belt |
| Motor type | Stepper motor<br>Servo motor |
| Max. acceleration | 50 m/s² |
| Max. speed | 5 m/s |
| Repetition accuracy | ±0.08 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364 Zone III |
| Degree of protection | IP40 |
| Ambient temperature | -10 °C...60 °C |
| 2nd moment of area Iy | 4620000 mm⁴ |
| 2nd moment of area Iz | 5650000 mm⁴ |
| 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. no-load resistance to shifting | 70 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 |

| Feature | Value |
|---|---|
| Max. moment Mz total axis | 380 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 531 Nm |
| 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. feed force Fx | 800 N |
| Torsion moment of inertia It | 2680000 $mm^4$ |
| Mass moment of inertia JH per meter of stroke | 0.93 $kgcm^2$ |
| Mass moment of inertia JL per kg of payload | 3.96 $kgcm^2$ |
| Feed constant | 125 mm/U |
| Reference service life | 5000 km |
| Material of end caps | 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 |
| Belt pulley material | high-alloy stainless steel |
| Slide material | Wrought aluminum alloy<br>Anodized |
| Toothed belt clamping component material | Cast stainless steel |
| Toothed belt material | Polychloroprene or nitrile rubber (NBR) with glass cord and nylon coating |