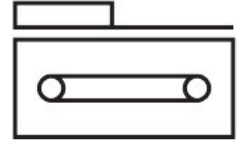


# Belt driven linear actuator EGC-120-1000-TB-KF-0H-GK

Part number: 3013368

**FESTO**



## Data sheet

| Feature                                                                    | Value                                           |
|----------------------------------------------------------------------------|-------------------------------------------------|
| Drive pinion effective diameter                                            | 39.79 mm                                        |
| Working stroke                                                             | 1000 mm                                         |
| Size                                                                       | 120                                             |
| Stroke reserve                                                             | 0 mm                                            |
| Toothed belt pitch                                                         | 5 mm                                            |
| Mounting position                                                          | Any                                             |
| Guide                                                                      | Recirculating ball bearing guide                |
| Structural design                                                          | Electromechanical linear axis with toothed belt |
| Motor type                                                                 | Stepper motor<br>Servo motor                    |
| Max. acceleration                                                          | 50 m/s <sup>2</sup>                             |
| 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 mm <sup>4</sup>                         |
| 2nd moment of area Iz                                                      | 5650000 mm <sup>4</sup>                         |
| 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 <sup>4</sup>                                                  |
| Mass moment of inertia JH per meter of stroke                              | 0.93 kgcm <sup>2</sup>                                                   |
| Mass moment of inertia JL per kg of payload                                | 3.96 kgcm <sup>2</sup>                                                   |
| 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 oder Nitrilkautschuk (NBR) mit Glascord und Nylonüberzug |