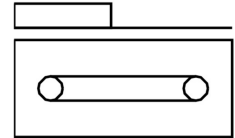


# Belt driven linear actuator EGC-120-1000-TB-KF-0H-GK

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 elongation                       | 0.13 %                                                         |
| Toothed belt pitch                            | 5 mm                                                           |
| Type code                                     | EGC                                                            |
| Mounting position                             | Any                                                            |
| Guide                                         | Recirculating ball bearing guide                               |
| Design                                        | Electromechanical linear axis<br>with toothed belt             |
| Motor type                                    | Stepper motor<br>Servo motor                                   |
| Symbol                                        | 00991212                                                       |
| Max. acceleration                             | 50 m/s <sup>2</sup>                                            |
| Max. speed                                    | 5 m/s                                                          |
| Repetition accuracy                           | ±0.08 mm                                                       |
| Duty cycle                                    | 100%                                                           |
| Degree of protection                          | IP40                                                           |
| Ambient temperature                           | -10 °C ... 60 °C                                               |
| 2nd moment of area Ix                         | 4620000 mm <sup>4</sup>                                        |
| 2nd moment of area Iy                         | 5650000 mm <sup>4</sup>                                        |
| Max. force Fy                                 | 6890 N                                                         |
| Max. force Fz                                 | 6890 N                                                         |
| Max. no-load resistance to shifting           | 70 N                                                           |
| Max. torque Mx                                | 144 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                                                       |
| Material of end caps                          | Wrought aluminum alloy<br>Anodized                             |
| Profile material                              | Wrought aluminum alloy<br>Anodized                             |
| Note on materials                             | Contains paint-wetting impairment substances<br>RoHS-compliant |

| Feature                                  | Value                                             |
|------------------------------------------|---------------------------------------------------|
| 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 with glass cord and nylon coating |