

# Belt driven linear actuator EGC-80-500-TB-KF-0H-GK

Part number: 3013354

FESTO



## Data sheet

| Feature                                       | Value  |
|---|--|
| Drive pinion effective diameter               | 28.65 mm   |
| Working stroke                                | 500 mm   |
| Size  | 80   |
| Stroke reserve                                | 0 mm   |
| Toothed belt elongation                       | 0.24 %   |
| Toothed belt pitch                            | 3 mm   |
| Type code                                     | EGC  |
| Mounting position                             | Any  |
| Guide   | Recirculating ball bearing guide                               |
| Structural design                             | Electromechanical linear axis 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                         | 844000 mm <sup>4</sup>   |
| 2nd moment of area Iy                         | 1160000 mm <sup>4</sup>  |
| Max. force Fy                                 | 3050 N   |
| Max. force Fz                                 | 3050 N   |
| Max. no-load resistance to shifting           | 28 N   |
| Max. torque Mx                                | 36 Nm  |
| Max. feed force Fx                            | 350 N  |
| Torsion moment of inertia It                  | 551000 mm <sup>4</sup>   |
| Mass moment of inertia JH per meter of stroke | 0.19 kgcm <sup>2</sup>   |
| Mass moment of inertia JL per kg of payload   | 2.05 kgcm <sup>2</sup>   |
| Feed constant                                 | 90 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 |

| <b>Feature</b>                           | <b>Value</b>                                      |
|--|---|
| 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 |