

# Belt driven linear actuator EGC-80-1000-TB-KF-0H-GK

Part number: 3013357

FESTO



## Data sheet

Feature	Value
Drive pinion effective diameter	28.65 mm
Working stroke	1000 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 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 Anodized
Profile material	Wrought aluminum alloy Anodized
Note on materials	Contains paint-wetting impairment substances RoHS-compliant

<b>Feature</b>	<b>Value</b>
Drive cover material	Wrought aluminum alloy Anodized
Slide carriage material	Steel
Guide rail material	Steel
Belt pulley material	High-alloy stainless steel
Slide material	Wrought aluminum alloy Anodized
Toothed belt clamping component material	Cast stainless steel
Toothed belt material	Polychloroprene with glass cord and nylon coating