

# Belt driven linear actuator ELGR-TB-35-500-0H

Part number: 8083774

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
Drive pinion effective diameter	18.46 mm
Working stroke	500 mm
Size	35
Toothed belt elongation	0.094 %
Toothed belt pitch	2 mm
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	0.9 m/s ... 3 m/s
Repetition accuracy	±0.1 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP20
Ambient temperature	-10 °C ... 50 °C
2nd moment of area Iy	3770 mm <sup>4</sup>
2nd moment of area Iz	4190 mm <sup>4</sup>
Max. driving torque	0.46 Nm
Max. force Fy	50 N
Max. force Fz	50 N
Max. no-load resistance to shifting	10.8 N
Max. feed force Fx	50 N
No-load driving torque	0.1 Nm
Mass moment of inertia JH per meter of stroke	0.026 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of payload	0.85 kgcm <sup>2</sup>
Feed constant	58 mm/U
Reference service life	5000 km
Additional moving mass per 10 mm stroke	0.31 g
Product weight	2720 g
Additional weight per 10 mm stroke	25 g
Profile material	Wrought aluminum alloy Anodized

<b>Feature</b>	<b>Value</b>
Note on materials	RoHS-compliant
Drive cover material	Wrought aluminum alloy Anodized
Belt pulley material	High-alloy stainless steel
Slide material	Wrought aluminum alloy Anodized
Toothed belt clamping component material	Beryllium bronze
Toothed belt material	Polychloroprene with glass cord and nylon coating