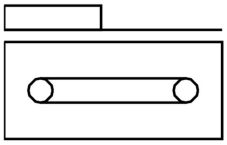
Belt driven linear actuator
ELGR-TB-35-400-0H

Part number: 8083773





Data sheet

Feature	Value
Drive pinion effective diameter	18.46 mm
Working stroke	400 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/s²
Max. speed	0.9 m/s ... 3 m/s
Repetition accuracy	±0.1 mm
Duty cycle	100%
Degree of protection	IP20
Ambient temperature	-10 °C ... 50 °C
2nd moment of area Iy	3770 mm⁴
2nd moment of area Iz	4190 mm⁴
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 kgcm²
Mass moment of inertia JL per kg of payload	0.85 kgcm²
Feed constant	58 mm/U
Reference value, running performance	5000 km
Additional weight per 10 mm stroke	25 g
Product weight	2470 g
Additional moving mass per 10 mm stroke	0.31 g
Profile material	Wrought aluminum alloy Anodized
Note on materials	Contains paint-wetting impairment substances RoHS-compliant

Feature	Value
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