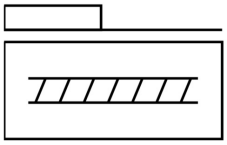
Ball screw linear actuator
ELGC-BS-KF-32-600-8P

Part number: 8061482



Data sheet

Feature	Value
Working stroke	600 mm
Size	32
Stroke reserve	0 mm
Screw diameter	8 mm
Spindle pitch	8 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with ball screw
Motor type	Stepper motor Servo motor
Spindle type	Ball screw drive
Symbol	00991211
Max. acceleration	15 m/s²
Max. rotational speed	4500 1/min
Max. speed	0.6 m/s
Repetition accuracy	±0.015 mm
RSBP classification to CD-0033	F1a
Cleanroom class	ISO Class 7
Degree of protection	IP40
Ambient temperature	0 °C ... 50 °C
2nd moment of area Iy	38000 mm⁴
2nd moment of area Iz	45000 mm⁴
No-load torque at maximum travel speed	0.04 Nm
No-load torque at minimum travel speed	0.02 Nm
Max. force Fy	150 N
Max. force Fz	300 N
Fy with theoretical service life of 100 km (from a guide perspective only)	552 N
Fz with theoretical service life of 100 km (from a guide perspective only)	1104 N
Max. torque Mx	1.3 Nm
Max. torque My	1.1 Nm
Max. torque Mz	1.1 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	5 Nm
My with theoretical service life of 100 km (from a guide perspective only)	4 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	4 Nm

Feature	Value
Max. feed force Fx	40 N
Torsion moment of inertia It	1700 mm⁴
Mass moment of inertia JH per meter of stroke	0.02218 kgcm²
Mass moment of inertia JL per kg of payload	0.016211 kgcm²
Mass moment of inertia JO	0.00274 kgcm²
Feed constant	8 mm/U
Moving mass	83.4 g
Additional weight per 10 mm stroke	18 g
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Interface code, actuator	V25
Material of end caps	Die cast aluminum, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Cover strip material	High-alloy stainless steel
Drive cover material	Die cast aluminum, painted
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Die-cast aluminum
Spindle nut material	Steel
Spindle material	Steel