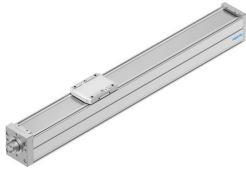


# Ball screw linear actuator ELGC-BS-KF-80-600-16P

Part number: 8061503

FESTO



## Data sheet

Feature	Value
Working stroke	600 mm
Size	80
Stroke reserve	0 mm
Screw diameter	16 mm
Spindle pitch	16 mm/U
Type code	ELGC
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis with ball screw
Motor type	Stepper motor Servo motor
Spindle type	Ball screw drive
Symbol	00991211
Max. acceleration	15 m/s <sup>2</sup>
Max. rotational speed	3750 1/min
Max. speed	1 m/s
Repetition accuracy	±0.01 mm
Degree of protection	IP40
Ambient temperature	0 °C ... 50 °C
2nd moment of area Iy	1370000 mm <sup>4</sup>
2nd moment of area Iz	1660000 mm <sup>4</sup>
No-load torque at maximum travel speed	0.396 Nm
No-load torque at minimum travel speed	0.095 Nm
Max. force Fy	900 N
Max. force Fz	2700 N
Fy with theoretical service life of 100 km (from a guide perspective only)	3312 N
Fz with theoretical service life of 100 km (from a guide perspective only)	9936 N
Max. torque Mx	59.8 Nm
Max. torque My	56.2 Nm
Max. torque Mz	56.2 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	220 Nm
My with theoretical service life of 100 km (from a guide perspective only)	207 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	207 Nm
Max. feed force Fx	350 N

Feature	Value
Torsion moment of inertia It	90500 mm <sup>4</sup>
Mass moment of inertia JH per meter of stroke	0.35257 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of payload	0.064846 kgcm <sup>2</sup>
Mass moment of inertia JO	0.07856 kgcm <sup>2</sup>
Feed constant	16 mm/U
Moving mass	978 g
Additional weight per 10 mm stroke	88 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	T46
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