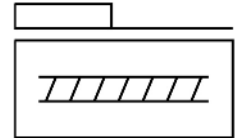
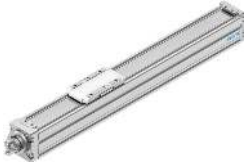


# Ball screw linear actuator ELGC-BS-KF-32-100-8P

Part number: 8061477

FESTO



## Data sheet

Feature	Value
Working stroke	100 mm
Size	32
Stroke reserve	0 mm
Reversing backlash	150 µm
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
Position sensing	For proximity sensor For inductive proximity sensors
Max. acceleration	15 m/s <sup>2</sup>
Max. rotational speed	4500 1/min
Max. speed	0.6 m/s
Repetition accuracy	±0.015 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 7 according to ISO 14644-1
Degree of protection	IP40
Ambient temperature	0 °C ... 50 °C
Impact energy in the end positions	2.5E-4 J
Hinweis zur Aufprallenergie in den Endlagen	At maximum speed of the reference run of 0.01 m/s
2nd moment of area Iy	38000 mm <sup>4</sup>
2nd moment of area Iz	45000 mm <sup>4</sup>
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

Feature	Value
Fy for the guidance calculation at a service life of 5000 km or 5 million cycles	356 N
Fz for the guidance calculation at a service life of 5000 km or 5 million cycles	356 N
Fy with theoretical service life of 100 km (from a guide perspective only)	1310 N
Fz with theoretical service life of 100 km (from a guide perspective only)	1310 N
Max. torque Mx	1.3 Nm
Max. torque My	1.1 Nm
Max. torque Mz	1.1 Nm
Mx for the guidance calculation at a service life of 5000 km or 5 million cycles	1.3 Nm
My for the guide calculation at a service life of 5000 km or 5 million cycles	1.1 Nm
Mz for the guidance calculation at a service life of 5000 km or 5 million cycles	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
Distance between slide surface and guide center	31.4 mm
Max. radial force on actuator shaft	75 N
Max. feed force Fx	40 N
Torsion moment of inertia It	1700 mm <sup>4</sup>
Mass moment of inertia JH per meter of stroke	0.02218 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of payload	0.016211 kgcm <sup>2</sup>
Mass moment of inertia JO	0.00274 kgcm <sup>2</sup>
Feed constant	8 mm/U
Maintenance interval	Life-time lubrication
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	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