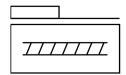
Ball screw linear actuator ELGC-BS-KF-45-200-10P

FESTO

Part number: 8061485





Data sheet

Size 45 Stroke reserve 0 mm Screw diameter 10 mm Spindle pitch 10 mm/U Type code ELGC Mounting position Any Suide Recirculating ball bearing guide Design Electromechanical linear axis with ball screw Motor type Stepper motor Servo motor Spindle type Ball screw drive Openitable type Ball screw drive Symbol 00991211 Max.a caceleration 15 m/s² Max.a rotational speed 3600 1/min Max.a speed 0,6 m/s Repetition accuracy 4,0.015 mm Degree of protection P40 Degree of protecti	Feature	Value
Stroke reserve 0 mm Screw diameter 10 mm / U Spindle pitch 10 mm/U Spindle pitch 20 mm/U Spindle pitch 30 mm/U Suide Recirculating position Any Suide Recirculating position Any Suide Recirculating ball bearing guide Belearing guide	Working stroke	200 mm
Screw diameter 10 mm Spindle pitch 10 mm/U ElGC Any Mounting position Any Suide 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/s² Max. rotational speed 3600 1/min Max. speed 0.6 m/s Repetition accuracy 0.6 m/s Repetition accuracy 0.00 1 mm Ambient temperature 0° 0° 50° C 2nd moment of area 1y No-load torque at maximum travel speed 0.032 Nm Max. force Ey Max. force Ey Max. force Fy Max. force Fy Max. force Fy Max. torque Mx Mx. with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only)	Size	45
Spindle pitch Type code ELGC Mounting position Any Secirculating ball bearing guide Design Electromechanical linear axis with ball screw Motor type Stepper motor Service motor Symbol O0991211 Max. acceleration Max. rotational speed Max. speed O.6 m/s Repetition accuracy Degree of protection PMO O"C 50 °C Old moment of area ly Ded moment of area ly No-load torque at maximum travel speed Max. force Fy Max. force With theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Mx. theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a	Stroke reserve	0 mm
Type code ELGC Mounting position Any Recirculating ball bearing guide 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 Max. rotational speed Max. speed 0.6 m/s Repetition accuracy 40.015 mm Degree of protection IP40 Ambient temperature 0° C 50° C 2nd moment of area ly 2nd moment of area ly 170000 mm² No-load torque at maximum travel speed No-load torque at minimum travel speed No-load torque at service life of 100 km (from a guide perspective only) Fix with theoretical service life of 100 km (from a guide perspective only) Max. torque MX Max. torque MX Max. torque MX Max. torque MZ Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only)	Screw diameter	10 mm
Mounting position Suide Recirculating ball bearing guide 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 3600 1/min Max. speed 0.6 m/s Repetition accuracy 20.015 mm Degree of protection IP40 Ambient temperature 20 of 50 °C 2nd moment of area ly 2nd moment of area ly 2nd moment of area lz No-load torque at maximum travel speed No-load torque at maximum travel speed No-load torque at minimum travel speed Max. force F2 Fy with theoretical service life of 100 km (from a guide perspective only) Max. torque MX Max. torque MX Max. torque MX Max. torque MZ Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only)	Spindle pitch	10 mm/U
Besign Electromechanical linear axis with ball screw Motor type Stepper motor Servo motor Servo motor Spindle type Ball screw drive Symbol Max. acceleration 15 m/s² Max. rotational speed 3600 1/min Max. speed 0.6 m/s Repetition accuracy 20,015 mm Degree of protection Repetition accuracy 140000 mm² 2nd moment of area ly 2nd moment of area ly 2nd moment of area ly 2nd moment of area lz No-load torque at maximum travel speed 0.22 Nm Max. force Fy Max. force Fy Max. force Fz Fy with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Max. torque Mx Max. torque Mx Max. torque Mz Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only)	Type code	ELGC
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 3600 1/min Max. speed 0.6 m/s Repetition accuracy 40.015 mm Degree of protection IP40 Ambient temperature 0°C 50 °C 2nd moment of area ly 140000 mm² No-load torque at maximum travel speed 0.12 Nm No-load torque at minimum travel speed 0.032 Nm Max. force Fy 300 N Max. force Fz 500 N Max. torque Mx 5.5 Nm Max. torque Mx Max. torque Mx Max. torque Mx Mx theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only)	Mounting position	Any
Motor type Stepper motor Servo motor Spindle type Ball screw drive Ooy91211 Max. acceleration 15 m/s² Max. rotational speed 3600 1/min Max. speed 0.6 m/s Repetition accuracy 40.015 mm Degree of protection 1P40 Anbient temperature 0°C50°C 2nd moment of area ly 140000 mm² No-load torque at maximum travel speed No-load torque at minimum travel speed No-load torque at maximum travel speed No-load torque at minimum travel sp	Guide	Recirculating ball bearing guide
Servo motor Spindle type Ball screw drive 00991211 Max. acceleration 15 m/s² Max. rotational speed 3600 1/min Max. speed 0.6 m/s Repetition accuracy 40.015 mm Degree of protection IP40 Ambient temperature 0° C 50° C 2nd moment of area ly 2nd moment of area lz No-load torque at maximum travel speed 0.12 Nm No-load torque at minimum travel speed 0.032 Nm Max. force Fy 300 N Max. force Fy yith theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Max. torque Mx Mx. torque Mx Mx. torque Mx Mx. torque Mx Mx. torque My Mx. torque My Mx. torque My Mx. torque My Mx. torque Mx Mx. torque My Mx. torq	Design	
Symbol 00991211 Max. acceleration 15 m/s² Max. rotational speed 3600 1/min Max. speed 0.6 m/s Repetition accuracy ±0.015 mm Degree of protection IP40 Ambient temperature 0°C 50°C 2nd moment of area ly 140000 mm⁴ 2nd moment of area lz 170000 mm⁴ No-load torque at maximum travel speed 0.12 Nm No-load torque at minimum travel speed 0.032 Nm Max. force Fy 300 N Max. force Fy 300 N Max. force Fz 600 N Fz with theoretical service life of 100 km (from a guide perspective only) 1104 N Fz with theoretical service life of 100 km (from a guide perspective only) 2208 N Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Mx. with theoretical service life of 100 km (from a guide perspective only) 17 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 17 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 17 Nm	Motor type	
Max. acceleration 15 m/s² Max. rotational speed 3600 1/min Max. speed 0.6 m/s Repetition accuracy ±0.015 mm Degree of protection IP40 Ambient temperature 0°C 50°C 2nd moment of area ly 140000 mm⁴ 2nd moment of area lz 170000 mm⁴ No-load torque at maximum travel speed 0.12 Nm No-load torque at minimum travel speed 0.032 Nm Max. force Fy 300 N Max. force Fz 600 N Fz with theoretical service life of 100 km (from a guide perspective only) 104 N Fz with theoretical service life of 100 km (from a guide perspective only) 208 N Max. torque My 4.7 Nm Max. torque Mz Mx with theoretical service life of 100 km (from a guide perspective only) 20 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 17 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 17 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 17 Nm	Spindle type	Ball screw drive
Max. rotational speed Max. sp	Symbol	00991211
Max. speed 0.6 m/s Repetition accuracy ±0.015 mm Degree of protection IP40 Ambient temperature 0°C 50 °C 2nd moment of area ly 140000 mm ⁴ 2nd moment of area lz 170000 mm ⁴ No-load torque at maximum travel speed 0.12 Nm No-load torque at minimum travel speed 0.032 Nm Max. force Fy 300 N Max. force Fy 300 N Fy with theoretical service life of 100 km (from a guide perspective only) 1104 N Fz with theoretical service life of 100 km (from a guide perspective only) 2208 N Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque My 4.7 Nm Max. torque Mz 4.7 Nm Mx. torque Mz 4.7 Nm	Max. acceleration	15 m/s ²
Repetition accuracy ±0.015 mm Degree of protection Ambient temperature 0°C 50°C 2nd moment of area ly 140000 mm⁴ 2nd moment of area lz 170000 mm⁴ No-load torque at maximum travel speed 0.12 Nm No-load torque at minimum travel speed 0.032 Nm Max. force Fy 300 N Max. force Fz 600 N Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque My Max. torque My Max. torque My 4.7 Nm Max. torque Mz Max with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Ty minute temperature 17000 mm⁴ 140000 mm⁴ 1000 mm²	Max. rotational speed	3600 1/min
Degree of protection Ambient temperature O°C 50 °C 2nd moment of area ly 140000 mm ⁴ 2nd moment of area lz 170000 mm ⁴ No-load torque at maximum travel speed O.12 Nm No-load torque at minimum travel speed O.32 Nm Max. force Fy 300 N Max. force Fz 600 N Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only)	Max. speed	0.6 m/s
Ambient temperature 2nd moment of area ly 2nd moment of area lz 2nd moment of area lz 2nd moment of area lz 3no-load torque at maximum travel speed 3no-load torque at minimum travel speed 3no-load torque at maximum travel speed 3no-load torque a	Repetition accuracy	±0.015 mm
2nd moment of area ly 2nd moment of area lz 170000 mm ⁴ 2nd moment of area lz 170000 mm ⁴ No-load torque at maximum travel speed 0.12 Nm No-load torque at minimum travel speed 0.032 Nm Max. force Fy 300 N Max. force Fz 600 N Fy with theoretical service life of 100 km (from a guide perspective only) 1104 N Fz with theoretical service life of 100 km (from a guide perspective only) 2208 N Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only)	Degree of protection	IP40
201d moment of area Iz No-load torque at maximum travel speed No-load torque at minimum travel speed No-load torque at maximum travel speed No-load torque at minimum travel speed No-load torque at maximum travel speed No-No-No-No-No-No-No-No-No-No-No-No-No-N	Ambient temperature	0 ℃ 50 ℃
No-load torque at maximum travel speed No-load torque at minimum travel speed No-load torque at minimum travel speed Max. force Fy 300 N Max. force Fz 600 N Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz 4.7 Nm Max. torque Mz My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only)	2nd moment of area ly	140000 mm ⁴
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Max. force Fy Max. force Fz 600 N Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz 4.7 Nm Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only)	No-load torque at maximum travel speed	0.12 Nm
Max. force Fz 600 N Fy with theoretical service life of 100 km (from a guide perspective only) 1104 N Fz with theoretical service life of 100 km (from a guide perspective only) 2208 N Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 20 Nm only) My with theoretical service life of 100 km (from a guide perspective only) 17 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 17 Nm	No-load torque at minimum travel speed	0.032 Nm
Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only)	Max. force Fy	300 N
Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz 4.7 Nm Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) 17 Nm	Max. force Fz	600 N
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Max. torque Mz Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only)	Max. torque Mx	5.5 Nm
Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) 17 Nm	Max. torque My	4.7 Nm
My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) 17 Nm	Max. torque Mz	4.7 Nm
only) Mz with theoretical service life of 100 km (from a guide perspective only) 17 Nm	Mx with theoretical service life of 100 km (from a guide perspective only)	20 Nm
	My with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Max. feed force Fx 100 N	Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
	Max. feed force Fx	100 N

Feature	Value
Torsion moment of inertia It	8500 mm⁴
Mass moment of inertia JH per meter of stroke	0.05056 kgcm²
Mass moment of inertia JL per kg of payload	0.02533 kgcm²
Mass moment of inertia JO	0.0082 kgcm ²
Feed constant	10 mm/U
Moving mass	220 g
Additional weight per 10 mm stroke	36 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	V32
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