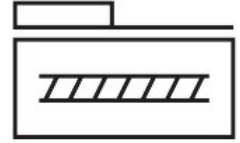
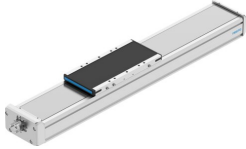


Ball screw axis
ELGD-BS-KF-WD-120-1000-0H-5P-L
Part number: 8192335

FESTO



Data sheet

Feature	Value
Working stroke	1000 mm
Size	120
Stroke reserve	0 mm
Reversing backlash	0.15 mm
Screw diameter	12 mm
Spindle pitch	5 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
Measuring principle of linear potentiometer	Incremental
Position sensing	For inductive proximity sensors
Max. acceleration	15 m/s ²
Max. rotational speed	6667 rpm
Max. speed	0.56 m/s
Repetition accuracy	±0.01 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364-C1-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Storage temperature	-20 °C...60 °C
Degree of protection	IP40
Ambient temperature	0 °C...60 °C
Impact energy in the end positions	1 mJ
Note on the impact energy in the end positions	At maximum speed of the reference run of 0.01 m/s
2nd moment of area Iy	770900 mm ⁴
2nd moment of area Iz	5801000 mm ⁴
No-load torque at maximum travel speed	0.179 Nm
No-load torque at minimum travel speed	0.068 Nm
Max. force Fy	8000 N

Feature	Value
Max. force Fz	7200 N
Max. force Fy total axis	5914 N
Max. force Fz total axis	9071 N
Fy with theoretical service life of 100 km (from a guide perspective only)	35153 N
Fz with theoretical service life of 100 km (from a guide perspective only)	35153 N
Max. torque Mx	330 Nm
Max. torque My	600 Nm
Max. torque Mz	540 Nm
Max. moment Mx total axis	359 Nm
Max. moment My total axis	628 Nm
Max. moment Mz total axis	527 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	1459 Nm
My with theoretical service life of 100 km (from a guide perspective only)	1920 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	1920 Nm
Distance between slide surface and guide center	51 mm
Max. radial force on actuator shaft	230 N
Max. feed force Fx	1880 N
Torsion moment of inertia It	383100 mm ⁴
Mass moment of inertia JH per meter of stroke	0.135 kgcm ²
Mass moment of inertia JL per kg of payload	0.00633 kgcm ²
Mass moment of inertia JO	0.0961 kgcm ²
Feed constant	5 mm/U
Reference service life	5000 km
Maintenance interval	Life-time lubrication
Moving mass	2200 g
Product weight	13890 g
Basic weight with 0 mm stroke	5290 g
Additional weight per 10 mm stroke	86 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	T42
Material of end caps	Aluminum gravity die-cast, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS-compliant
Cover strip material	High-alloy stainless steel
Drive cover material	Aluminum gravity die-cast, painted
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Wrought aluminum alloy
Spindle nut material	Steel
Spindle material	Steel