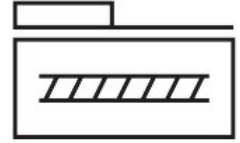
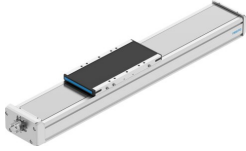


Ball screw axis

ELGD-BS-KF-WD-120-200-0H-5P-L

Part number: 8192329

FESTO



Data sheet

Feature	Value
Working stroke	200 mm
Size	120
Stroke reserve	0 mm
Reversing backlash theoretical	0.15 mm
Spindle diameter	12 mm
Spindle pitch	5 mm/U
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With ball screw
Type of motor	Stepper motor Servo motor
Spindle type	Ball screw drive
Functional principle of measuring system	Incremental
Position detection	Via inductive 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 end positions	1 mJ
Note on the impact energy in the end positions	At maximum homing speed of 0.01 m/s
2nd moment of area Iy	770900 mm ⁴
2nd moment of area Iz	5801000 mm ⁴
Idle torque at vmax	0.179 Nm
Idle torque at vmin	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 at theoretical life value of 100 km (only guide consideration)	35153 N
Fz at theoretical life value of 100 km (only guide consideration)	35153 N
Max. moment Mx	330 Nm
Max. moment My	600 Nm
Max. moment 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 at theoretical life value of 100 km (only guide consideration)	1459 Nm
My at theoretical life value of 100 km (only guide consideration)	1920 Nm
Mz at theoretical life value of 100 km (only guide consideration)	1920 Nm
Distance between slide surface and guide centre	51 mm
Max. radial force at drive shaft	230 N
Max. feed force Fx	1880 N
Torsional mass moment of inertia It	383100 mm ⁴
Mass moment of inertia JH per metre of stroke	0.135 kgcm ²
Mass moment of inertia JL per kg of working load	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	7010 g
Basic weight for 0 mm stroke	5290 g
Additional weight per 10 mm stroke	86 g
Dynamic deflection (moving load)	0.05% of the axis length, max. 0.5 mm
Static deflection (load in standstill)	0.1% of the axis length
Interface code, actuator	T42
Material end cap	Aluminium gravity die-cast, painted
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material cover tape	High-alloy stainless steel
Material drive cover	Aluminium gravity die-cast, painted
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought aluminium alloy
Material spindle nut	Steel
Material spindle	Steel