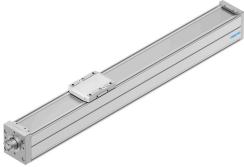


Spindle axis ELGC-BS-KF-80-600-16P

Part number: 8061503

FESTO



Data sheet

Feature	Value
Working stroke	600 mm
Size	80
Stroke reserve	0 mm
Reversing backlash theoretical	0,15 mm
Spindle diameter	16 mm
Spindle pitch	16 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
Position detection	Via proximity switch Via inductive sensors
Max. acceleration	15 m/s ²
Max. rotational speed	3750 rpm
Max. speed	1 m/s
Repetition accuracy	±0.01 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 end positions	2 mJ
Note on the impact energy in the end positions	At maximum homing speed of 0.01 m/s
2nd moment of area Iy	1370000 mm ⁴
2nd moment of area Iz	1660000 mm ⁴
Idle torque at v _{max}	0.396 Nm

Feature	Value
Idle torque at vmin	0.095 Nm
Max. force Fy	900 N
Max. force Fz	2700 N
Max. force Fy total axis	5543 N
Max. force Fz total axis	5543 N
Fy at theoretical life value of 100 km (only guide consideration)	20400 N
Fz at theoretical life value of 100 km (only guide consideration)	20400 N
Max. moment Mx	59.8 Nm
Max. moment My	56.2 Nm
Max. moment Mz	56.2 Nm
Max. moment Mx total axis	59.8 Nm
Max. moment My total axis	56.2 Nm
Max. moment Mz total axis	56.2 Nm
Mx at theoretical life value of 100 km (only guide consideration)	220 Nm
My at theoretical life value of 100 km (only guide consideration)	207 Nm
Mz at theoretical life value of 100 km (only guide consideration)	207 Nm
Distance between slide surface and guide centre	72.5 mm
Max. radial force at drive shaft	500 N
Max. feed force Fx	350 N
Torsional mass moment of inertia It	90500 mm ⁴
Mass moment of inertia JH per metre of stroke	0.35257 kgcm ²
Mass moment of inertia JL per kg of working load	0.064846 kgcm ²
Mass moment of inertia JO	0.07856 kgcm ²
Feed constant	16 mm/U
Maintenance interval	Life-time lubrication
Moving mass	978 g
Additional weight per 10 mm stroke	88 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	T46
Material end cap	Painted die cast aluminium
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material cover tape	High-alloy stainless steel
Material drive cover	Painted die cast aluminium
Material guide slide	Steel
Material guide rail	Steel
Material slide	Die-cast aluminium
Material spindle nut	Steel
Material spindle	Steel