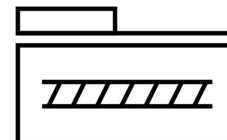
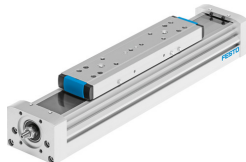


Spindle axis ELGA-BS-KF-70-100-0H-10P-ML

Part number: 8041816

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Working stroke	100 mm
Size	70
Stroke reserve	0 mm
Spindle diameter	12 mm
Spindle pitch	10 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
Symbol	00991211
Functional principle of measuring system	Incremental
Max. acceleration	15 m/s ²
Max. rotational speed	3000 rpm
Max. speed	0.5 m/s
Repetition accuracy	±0.02 mm
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C ... 60 °C
2nd moment of area Iy	165000 mm ⁴
2nd moment of area Iz	472000 mm ⁴
Idle torque at v _{max}	0.24 Nm
Idle torque at v _{min}	0.17 Nm
Max. force F _y	1500 N
Max. force F _z	1850 N
F _y at theoretical life value of 100 km (only guide consideration)	5520 N
F _z at theoretical life value of 100 km (only guide consideration)	6808 N
Max. moment M _x	16 Nm
Max. moment M _y	132 Nm
Max. moment M _z	132 Nm
M _x at theoretical life value of 100 km (only guide consideration)	59 Nm
M _y at theoretical life value of 100 km (only guide consideration)	486 Nm
M _z at theoretical life value of 100 km (only guide consideration)	486 Nm
Max. radial force at drive shaft	220 N

Feature	Value
Max. feed force Fx	650 N
Torsional mass moment of inertia It	28300 mm ⁴
Mass moment of inertia JH per metre of stroke	0.142 kgcm ²
Mass moment of inertia JL per kg of working load	0.0253 kgcm ²
Mass moment of inertia JO	0.038 kgcm ²
Feed constant	10 mm/U
Moving mass	804 g
Weight of additional slide	620 g
Additional weight per 10 mm stroke	33 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
Material end cap	Wrought aluminium alloy Anodised
Material profile	Wrought aluminium alloy Anodised
Note on materials	RoHS-compliant
Material drive cover	Wrought aluminium alloy Anodised
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought aluminium alloy Anodised
Material spindle nut	Steel
Material spindle	Steel