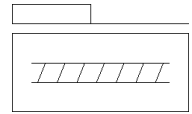


# Spindle axis ELGA-BS-KF-120-600-0H-25P-ML

Part number: 8041848

FESTO

With recirculating ball bearing guide



## Data sheet

Feature	Value
Working stroke	600 mm
Size	120
Stroke reserve	0 mm
Spindle diameter	25 mm
Spindle pitch	25 mm/U
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis with recirculating ball bearing spindle
Motor type	Stepper motor Servomotor
Spindle type	Ball screw actuator
Measuring method: displacement encoder	Incremental
Max. acceleration	15 m/s <sup>2</sup>
Max. speed	3,600 1/min 1.5 m/s
Repetition accuracy	±0,02 mm
PWIS conformity	VDMA24364 zone III
Protection class	IP40
Ambient temperature	-10 ... 60 °C
Area moment of inertia 2nd degree Iy	1,240E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iz	3,800E+03 mm <sup>4</sup>
No-load torque at maximum travel speed	1.64 Nm
No-load torque at minimum travel speed	1 Nm
Max. force Fy	5,500 N
Max. force Fz	6,890 N
Fy with theoretical service life of 100 km (from a guide perspective only)	20,240 N
Fz with theoretical service life of 100 km (from a guide perspective only)	25,355 N
Max. torque Mx	104 Nm
Max. torque My	680 Nm
Max. torque Mz	680 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	383 Nm
My with theoretical service life of 100 km (from a guide perspective only)	2,502 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	2,502 Nm
Max. radial force at drive shaft	500 N
Max. feed force Fx	3,400 N
Torsional mass moment of inertia It	247E+03 mm <sup>4</sup>
Mass moment of inertia JH per meter of stroke	2.756 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	0.1583 kgcm <sup>2</sup>
Mass moment of inertia, JO	1.038 kgcm <sup>2</sup>
Feed constant	25 mm/U
Moving mass	4,459 g
Additional slide weight	3,600 g
Additional weight per 10 mm stroke	101 g

Feature	Value
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm
Static deflection (load at standstill)	0.1% of the axis length
Material of end caps	Wrought Aluminum alloy Anodized
Material of profile	Wrought Aluminum alloy Anodized
Materials note	Conforms to RoHS
Material drive cover	Wrought Aluminum alloy Anodized
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought Aluminum alloy Anodized
Material spindle nut	Steel
Material spindle	Steel