

# Guide axis ELFC-KF-60-1800

Part number: 8062822

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
Working stroke	1800 mm
Size	60
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Guidance
Symbol	00992984
Position detection	Via proximity switch For inductive sensors
Max. acceleration	15 m/s <sup>2</sup>
Max. speed	1.5 m/s
Duty cycle	100%
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 7 according to ISO 14644-1
Degree of protection	IP40
Ambient temperature	0 °C ... 50 °C
2nd moment of area Iy	441000 mm <sup>4</sup>
2nd moment of area Iz	542000 mm <sup>4</sup>
Max. force Fy	3641 N
Max. force Fz	3641 N
Max. moment Mx	29.1 Nm
Max. moment My	31.8 Nm
Max. moment Mz	31.8 Nm
Max. force Fy total axis	600 N
Max. force Fz total axis	1800 N
Max. moment Mx total axis	29.1 Nm
Max. moment My total axis	31.8 Nm
Max. moment Mz total axis	31.8 Nm
Torsional mass moment of inertia It	29800 mm <sup>4</sup>
Displacement force	6.75 N
Reference service life	5000 km
Maintenance interval	Lifetime lubrication
Fy at theoretical life value of 100 km (only guide consideration)	13400 N
Fz at theoretical life value of 100 km (only guide consideration)	13400 N

<b>Feature</b>	<b>Value</b>
Mx at theoretical life value of 100 km (only guide consideration)	107 Nm
My at theoretical life value of 100 km (only guide consideration)	117 Nm
Mz at theoretical life value of 100 km (only guide consideration)	117 Nm
Moving mass	407 g
Basic weight for 0 mm stroke	1029 g
Additional weight per 10 mm stroke	43 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	Painted die cast aluminium
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS compliant
Material cover tape	High-alloy stainless steel
Material guide slide	Steel
Material guide rail	Steel
Material slide	Die-cast aluminium