

# guide axis ELFC-KF-80-100

Part number: 8062824

FESTO



## Data sheet

Feature	Value
Working stroke	100 mm
Size	80
Stroke reserve	0 mm
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Guide
Max. acceleration	500 m/s <sup>2</sup>
Max. speed	1.5 m/s
Duty cycle	100 %
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364 zone III
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 7
Protection class	IP40
Ambient temperature	0 ... 50 °C
Area moment of inertia 2nd degree Iy	1,370E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iz	1,660E+03 mm <sup>4</sup>
Max. force Fy	900 N
Max. force Fz	2,700 N
Max. torque Mx	59.8 Nm
Max. torque My	56.2 Nm
Max. torque Mz	56.2 Nm
Torsional mass moment of inertia It	90.5E+03 mm <sup>4</sup>
Displacement force	15 N
Fy with theoretical service life of 100 km (from a guide perspective only)	3,312 N
Fz with theoretical service life of 100 km (from a guide perspective only)	9,936 N
Mx with theoretical service life of 100 km (from a guide perspective only)	220 Nm
My with theoretical service life of 100 km (from a guide perspective only)	207 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	207 Nm
Moving mass	815 g
Additional weight per 10 mm stroke	73 g
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material cover tape	High alloy steel, non-corrosive
Material cover	Die-cast aluminium, painted
Material guide slide	Steel
Material guide rail	Steel
Material slide	Aluminium die cast