

Guide axis ELFA-KF-80- -

Part number: 8037971

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Working stroke	50 mm ... 8500 mm
Size	80
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Guide
Symbol	00992984
Max. acceleration	50 m/s ²
Max. speed	5 m/s
Duty cycle	100%
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C ... 60 °C
2nd moment of area Iy	257180 mm ⁴
2nd moment of area Iz	913660 mm ⁴
Max. force Fy	2500 N
Max. force Fz	3050 N
Max. no-load resistance to shifting	12 N
Max. torque Mx	36 Nm
Max. torque My	228 Nm
Max. torque Mz	228 Nm
Max. force Fy total axis	2500 N
Max. force Fz total axis	3050 N
Max. moment Mx total axis	36 Nm
Max. moment My total axis	228 Nm
Max. moment Mz total axis	228 Nm
Fy with theoretical service life of 100 km (from a guide perspective only)	9200 N
Fz with theoretical service life of 100 km (from a guide perspective only)	11224 N
Mx with theoretical service life of 100 km (from a guide perspective only)	132 Nm
My with theoretical service life of 100 km (from a guide perspective only)	839 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	839 Nm
Slide weight	1610 g
Additional slide weight	1610 g

Feature	Value
Basic weight with 0 mm stroke	3740 g
Additional weight per 10 mm stroke	49 g
Profile material	Wrought aluminum alloy Anodized
Note on materials	RoHS-compliant
Cover strip material	Stainless steel strip
Slide carriage material	Stainless steel
Guide rail material	Stainless steel
Slide material	Wrought aluminum alloy Anodized