

Guide axis ELFA-RF-80- -

Part number: 8037968

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Working stroke	50 mm ... 7000 mm
Size	80
Mounting position	Any
Guide	Roller guide
Structural design	Guide
Symbol	00992984
Max. acceleration	50 m/s ²
Max. speed	10 m/s
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	269840 mm ⁴
2nd moment of area Iz	1018510 mm ⁴
Max. force Fy	800 N
Max. force Fz	800 N
Max. no-load resistance to shifting	40 N
Max. torque Mx	30 Nm
Max. force Fy total axis	800 N
Max. force Fz total axis	800 N
Max. moment Mx total axis	30 Nm
Reference service life	10000 km
Fy with theoretical service life of 100 km (from a guide perspective only)	3712 N
Fz with theoretical service life of 100 km (from a guide perspective only)	3712 N
Mx with theoretical service life of 100 km (from a guide perspective only)	139 Nm
Additional weight per 10 mm stroke	47.13 g
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Type of mounting	With accessories
Material of end caps	Wrought aluminum alloy Anodized
Profile material	Wrought aluminum alloy Anodized
Note on materials	RoHS-compliant

Feature	Value
Cover strip material	Stainless steel strip
Guide material	Steel
Slide material	Wrought aluminum alloy Anodized