

Electric linear actuator ELFC-KF-45-500

Part number: 8062806

FESTO



Data sheet

Feature	Value
Working stroke	500 mm
Size	45
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Guide
Position sensing	For proximity sensor For inductive proximity sensors
Max. acceleration	15 m/s ²
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	Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 7 according to ISO 14644-1
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
2nd moment of area I _y	140000 mm ⁴
2nd moment of area I _z	170000 mm ⁴
Max. force F _y	880 N
Max. force F _z	880 N
Max. torque M _x	5.5 Nm
Max. torque M _y	4.7 Nm
Max. torque M _z	4.7 Nm
Max. force F _y total axis	300 N
Max. force F _z total axis	600 N
Max. moment M _x total axis	5.5 Nm
Max. moment M _y total axis	4.7 Nm
Max. moment M _z total axis	4.7 Nm
Torsion moment of inertia I _t	8500 mm ⁴

Feature	Value
Displacement force	4.5 N
Reference service life	5000 km
Maintenance interval	Life-time lubrication
Fy with theoretical service life of 100 km (from a guide perspective only)	3240 N
Fz with theoretical service life of 100 km (from a guide perspective only)	3240 N
Mx with theoretical service life of 100 km (from a guide perspective only)	20 Nm
My with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Moving mass	144 g
Basic weight with 0 mm stroke	384 g
Additional weight per 10 mm stroke	23 g
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Material of end caps	Die cast aluminum, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS-compliant
Cover strip material	High-alloy stainless steel
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Die-cast aluminum