

Electric linear actuator ELFC-KF-45-400

Part number: 8062805

FESTO



Data sheet

Feature	Value
Working stroke	400 mm
Size	45
Stroke reserve	0 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Guide
Max. acceleration	250 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	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed 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 ly	140000 mm ⁴
2nd moment of area lz	170000 mm ⁴
Max. force Fy	300 N
Max. force Fz	600 N
Max. torque Mx	5.5 Nm
Max. torque My	4.7 Nm
Max. torque Mz	4.7 Nm
Torsion moment of inertia It	8500 mm ⁴
Displacement force	4.5 N
Fy with theoretical service life of 100 km (from a guide perspective only)	1104 N
Fz with theoretical service life of 100 km (from a guide perspective only)	2208 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

Feature	Value
Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Moving mass	144 g
Additional weight per 10 mm stroke	23 g
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
Cover material	Die cast aluminum, painted
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Die-cast aluminum