

Cantilever linear actuator ELCC-TB-KF-110-1500-0H-P0-CR

Part number: 8082416

FESTO



[PDF General operating condition](#)

Data sheet

Feature	Value
Drive pinion effective diameter	68.755 mm
Working stroke	1500 mm
Size	110
Stroke reserve	0 mm
Toothed belt pitch	8 mm
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Electromechanical cantilever axis
Symbol	00991210
Max. acceleration	30 m/s ²
Max. speed	5 m/s
Repetition accuracy	±0.05 mm
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Degree of protection	IP20
Ambient temperature	-10 °C ... 60 °C
2nd moment of area I _y	6830570 mm ⁴
2nd moment of area I _z	4925970 mm ⁴
Max. driving torque	90 Nm
Max. force F _y	20596 N
Max. force F _z	20022 N
Max. torque M _x	317 Nm
Max. torque M _y	2368 Nm
Max. torque M _z	2286 Nm
Max. feed force F _x	2500 N
Mass moment of inertia J _H per meter of stroke	174.9 kgcm ²
Mass moment of inertia J _L per kg of payload	11.8 kgcm ²
Mass moment of inertia J _O	157.1 kgcm ²
Feed constant	216 mm/U
Reference service life	5000 km
Lubrication interval, distance dependent	1000 km
Moving mass at 0 mm stroke	10017 g
Additional moving mass per 10 mm stroke	148 g
Basic weight with 0 mm stroke	27299 g
Additional weight per 10 mm stroke	148 g
Material of end caps	Wrought aluminum alloy, anodized

Feature	Value
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS compliant
Drive head material	Wrought aluminum alloy, anodized
Guide rail material	Rolled steel, Corrotect coated
Housing material	high-alloy stainless steel
Slide material	Anodized cast aluminum
Toothed belt clamping component material	Wrought aluminum alloy, anodized
Toothed belt material	Polychloroprene with glass cord and nylon coating