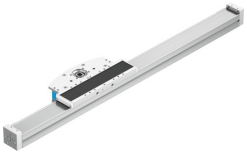
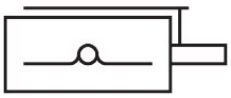
Cantilever linear actuator
ELCC-TB-KF-60-500-0H-P0-CR

Part number: 8082388





Data sheet

Feature	Value
Drive pinion effective diameter	30.558 mm
Working stroke	500 mm
Size	60
Stroke reserve	0 mm
Toothed belt pitch	3 mm
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Electromechanical cantilever axis
Max. acceleration	50 m/s²
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 Iy	240600 mm⁴
2nd moment of area Iz	304210 mm⁴
Max. driving torque	5.4 Nm
Max. force Fy	4216 N
Max. force Fz	4119 N
Max. torque Mx	36 Nm
Max. torque My	293 Nm
Max. torque Mz	288 Nm
Max. feed force Fx	300 N
Mass moment of inertia JH per meter of stroke	8.9 kgcm²
Mass moment of inertia JL per kg of payload	2.3 kgcm²
Mass moment of inertia JO	5.9 kgcm²
Feed constant	96 mm/U
Reference service life	5000 km
Lubrication interval, distance dependent	1000 km
Moving mass at 0 mm stroke	1636 g

Feature	Value
Additional moving mass per 10 mm stroke	38 g
Basic weight with 0 mm stroke	4146 g
Additional weight per 10 mm stroke	38 g
Material of end caps	Wrought aluminum alloy, anodized
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