

Belt driven linear actuator EGC-120-500-TB-KF-0H-GK

Part number: 3013365

FESTO



Data sheet

Feature	Value
Drive pinion effective diameter	39.79 mm
Working stroke	500 mm
Size	120
Stroke reserve	0 mm
Toothed belt elongation	0.13 %
Toothed belt pitch	5 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with toothed belt
Motor type	Stepper motor Servo motor
Max. acceleration	50 m/s ²
Max. speed	5 m/s
Repetition accuracy	±0.08 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C...60 °C
2nd moment of area I _x	4620000 mm ⁴
2nd moment of area I _y	5650000 mm ⁴
Max. force F _y	6890 N
Max. force F _z	6890 N
Max. no-load resistance to shifting	70 N
Max. torque M _x	144 Nm
Max. feed force F _x	800 N
Torsion moment of inertia I _t	2680000 mm ⁴
Mass moment of inertia J _H per meter of stroke	0.93 kgcm ²
Mass moment of inertia J _L per kg of payload	3.96 kgcm ²
Feed constant	125 mm/U
Material of end caps	Wrought aluminum alloy Anodized

Feature	Value
Profile material	Wrought aluminum alloy Anodized
Note on materials	RoHS-compliant
Drive cover material	Wrought aluminum alloy Anodized
Slide carriage material	Steel
Guide rail material	Steel
Belt pulley material	High-alloy stainless steel
Slide material	Wrought aluminum alloy Anodized
Toothed belt clamping component material	Cast stainless steel
Toothed belt material	Polychloroprene with glass cord and nylon coating