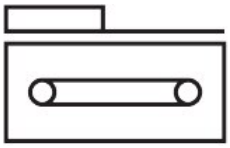
Belt driven linear actuator
EGC-120-500-TB-KF-0H-GK

Part number: 3013365





Data sheet

Feature	Value
Drive pinion effective diameter	39.79 mm
Working stroke	500 mm
Size	120
Stroke reserve	0 mm
Toothed belt pitch	5 mm
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Electromechanical linear axis With toothed belt
Motor type	Stepper motor Servo motor
Max. acceleration	50 m/s²
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 Iy	4620000 mm⁴
2nd moment of area Iz	5650000 mm⁴
Max. force Fy	6890 N
Max. force Fz	6890 N
Max. force Fy total axis	6890 N
Max. force Fz total axis	6890 N
Fy with theoretical service life of 100 km (from a guide perspective only)	25383 N
Fz with theoretical service life of 100 km (from a guide perspective only)	25383 N
Max. no-load resistance to shifting	70 N
Max. torque Mx	144 Nm
Max. torque My	380 Nm
Max. torque Mz	380 Nm
Max. moment Mx total axis	144 Nm
Max. moment My total axis	380 Nm

Feature	Value
Max. moment Mz total axis	380 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	531 Nm
My with theoretical service life of 100 km (from a guide perspective only)	1400 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	1400 Nm
Max. feed force Fx	800 N
Torsion moment of inertia It	2680000 mm^4
Mass moment of inertia JH per meter of stroke	0.93 $kgcm^2$
Mass moment of inertia JL per kg of payload	3.96 $kgcm^2$
Feed constant	125 mm/U
Reference service life	5000 km
Material of end caps	Wrought aluminum alloy Anodized
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 or nitrile rubber (NBR) with glass cord and nylon coating