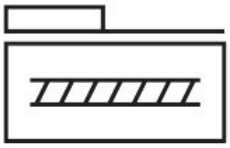
Ball screw axis
EGC-120-100-BS-10P-KF-0H-ML-GK

Part number: 3013571



General operating condition

Data sheet

Feature	Value
Working stroke	100 mm
Size	120
Stroke reserve	0 mm
Screw diameter	25 mm
Spindle pitch	10 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with ball screw
Motor type	Stepper motor Servo motor
Spindle type	Ball screw
Symbol	00991211
Max. acceleration	15 m/s²
Max. speed	0.6 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364-B2-L
Degree of protection	IP40
Ambient temperature	-10 °C ... 60 °C
2nd moment of area Iy	5010000 mm⁴
2nd moment of area Iz	5820000 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. 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
Max. moment Mz total axis	380 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	531 Nm

Feature	Value
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. radial force on actuator shaft	500 N
Max. feed force Fx	1500 N
Torsion moment of inertia It	1430000 mm^4
Mass moment of inertia JH per meter of stroke	2.756 $kgcm^2$
Feed constant	10 mm/U
Reference service life	5000 km
Material of end caps	Wrought aluminum alloy Anodized
Moment compensator material	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
Slide material	Wrought aluminum alloy Anodized
Ball screw nut material	Steel
Spindle material	Steel