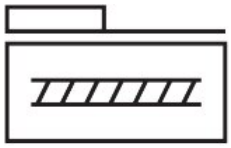
Ball screw axis
EGC-120-500-BS-10P-KF-0H-ML-GK

Part number: 3013575





Data sheet

Feature	Value
Working stroke	500 mm
Size	120
Stroke reserve	0 mm
Spindle diameter	25 mm
Spindle pitch	10 mm/U
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With ball screw
Type of motor	Stepper motor Servo motor
Spindle type	Ball screw
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 at theoretical life value of 100 km (only guide consideration)	25383 N
Fz at theoretical life value of 100 km (only guide consideration)	25383 N
Max. moment Mx	144 Nm
Max. moment My	380 Nm
Max. moment 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 at theoretical life value of 100 km (only guide consideration)	531 Nm
My at theoretical life value of 100 km (only guide consideration)	1400 Nm
Mz at theoretical life value of 100 km (only guide consideration)	1400 Nm
Max. radial force at drive shaft	500 N
Max. feed force Fx	1500 N
Torsional mass moment of inertia It	1430000 mm^4
Mass moment of inertia JH per metre of stroke	2.756 $kgcm^2$
Feed constant	10 mm/U
Reference service life	5000 km
Material end cap	Wrought aluminium alloy Anodised
Material driver	Wrought aluminium alloy Anodised
Material profile	Wrought aluminium alloy Anodised
Note on materials	RoHS-compliant
Material drive cover	Wrought aluminium alloy Anodised
Material guide slide	Steel
Material guide rail	Steel
Material slide	Wrought aluminium alloy Anodised
Material ball screw nut	Steel
Material spindle	Steel