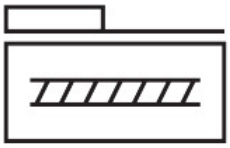
Ball screw axis
EGC-70-100-BS-10P-KF-0H-ML-GK

Part number: 3013388



General operating condition

Data sheet

Feature	Value
Working stroke	100 mm
Size	70
Stroke reserve	0 mm
Spindle diameter	12 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
Symbol	00991211
Max. acceleration	15 m/s²
Max. speed	0.5 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	419000 mm⁴
2nd moment of area Iz	578000 mm⁴
Max. force Fy	1850 N
Max. force Fz	1850 N
Max. force Fy total axis	1850 N
Max. force Fz total axis	1850 N
Fy at theoretical life value of 100 km (only guide consideration)	6815 N
Fz at theoretical life value of 100 km (only guide consideration)	6815 N
Max. moment Mx	16 Nm
Max. moment My	51 Nm
Max. moment Mz	51 Nm
Max. moment Mx total axis	16 Nm
Max. moment My total axis	51 Nm
Max. moment Mz total axis	51 Nm
Mx at theoretical life value of 100 km (only guide consideration)	59 Nm
My at theoretical life value of 100 km (only guide consideration)	188 Nm

Feature	Value
Mz at theoretical life value of 100 km (only guide consideration)	188 Nm
Max. radial force at drive shaft	220 N
Max. feed force Fx	400 N
Torsional mass moment of inertia It	88000 mm^4
Mass moment of inertia JH per metre of stroke	0.142 $kgcm^2$
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 spindle nut	Steel
Material spindle	Steel