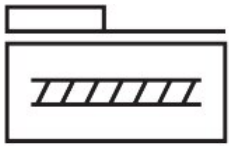
Ball screw axis
EGC-80-400-BS-10P-KF-0H-ML-GK

Part number: 3013535



General operating condition

Data sheet

Feature	Value
Working stroke	400 mm
Size	80
Stroke reserve	0 mm
Spindle diameter	15 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	981000 mm⁴
2nd moment of area Iz	1320000 mm⁴
Max. force Fy	3050 N
Max. force Fz	3050 N
Max. force Fy total axis	3050 N
Max. force Fz total axis	3050 N
Fy at theoretical life value of 100 km (only guide consideration)	11236 N
Fz at theoretical life value of 100 km (only guide consideration)	11236 N
Max. moment Mx	36 Nm
Max. moment My	97 Nm
Max. moment Mz	97 Nm
Max. moment Mx total axis	36 Nm
Max. moment My total axis	97 Nm
Max. moment Mz total axis	97 Nm
Mx at theoretical life value of 100 km (only guide consideration)	133 Nm
My at theoretical life value of 100 km (only guide consideration)	357 Nm

Feature	Value
Mz at theoretical life value of 100 km (only guide consideration)	357 Nm
Max. radial force at drive shaft	250 N
Max. feed force Fx	650 N
Torsional mass moment of inertia It	255000 mm^4
Mass moment of inertia JH per metre of stroke	0.346 $kgcm^2$
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