Ball screw axis
EGC-185- -BS-KF

Part number: 556811

Data sheet

Feature	Value
Working stroke	50 mm...3000 mm
Size	185
Screw diameter	40 mm
Spindle pitch	40 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
Measuring principle of linear potentiometer	Incremental
Max. acceleration	15 m/s²
Max. speed	2 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	26120000 mm⁴
2nd moment of area Iz	26000000 mm⁴
Max. force Fy	15200 N
Max. force Fz	15200 N
Max. force Fy total axis	15200 N
Max. force Fz total axis	15200 N
Fy with theoretical service life of 100 km (from a guide perspective only)	55997 N
Fz with theoretical service life of 100 km (from a guide perspective only)	55997 N
Max. torque Mx	529 Nm
Max. torque My	1157 Nm...1820 Nm
Max. torque Mz	1157 Nm...1820 Nm
Max. moment Mx total axis	529 Nm
Max. moment My total axis	1157 Nm...1820 Nm

Feature	Value
Max. moment Mz total axis	1157 Nm...1820 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	1949 Nm
My with theoretical service life of 100 km (from a guide perspective only)	4262 Nm...6705 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	4262 Nm...6705 Nm
Max. radial force on actuator shaft	4000 N
Max. feed force Fx	3000 N
Torsion moment of inertia It	5140000 mm^4
Mass moment of inertia JH per meter of stroke	18.031 $kgcm^2$
Feed constant	40 mm/U
Reference service life	5000 km
Pneumatic port on clamping unit	M5
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
Spindle nut material	Steel
Spindle material	Steel