

Ball screw axis EGC-185- -BS-KF

Part number: 556811



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Working stroke	50 mm ... 3000 mm
Size	185
Spindle diameter	40 mm
Spindle pitch	40 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With ball screw
Type of motor	Stepper motor Servo motor
Spindle type	Ball screw
Functional principle of measuring system	Incremental
Max. acceleration	15 m/s ²
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	2.612E7 mm ⁴
2nd moment of area Iz	2.6E7 mm ⁴
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 at theoretical life value of 100 km (only guide consideration)	55997 N
Fz at theoretical life value of 100 km (only guide consideration)	55997 N
Max. moment Mx	529 Nm
Max. moment My	1157 Nm ... 1820 Nm
Max. moment Mz	1157 Nm ... 1820 Nm
Max. moment Mx total axis	529 Nm
Max. moment My total axis	1157 Nm ... 1820 Nm
Max. moment Mz total axis	1157 Nm ... 1820 Nm
Mx at theoretical life value of 100 km (only guide consideration)	1949 Nm
My at theoretical life value of 100 km (only guide consideration)	4262 Nm ... 6705 Nm

Feature	Value
Mz at theoretical life value of 100 km (only guide consideration)	4262 Nm ... 6705 Nm
Max. radial force at drive shaft	4000 N
Max. feed force Fx	3000 N
Torsional mass moment of inertia It	5140000 mm ⁴
Mass moment of inertia JH per metre of stroke	18.031 kgcm ²
Feed constant	40 mm/U
Reference service life	5000 km
Pneumatic connection, clamping unit	M5
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