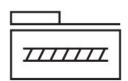
## Ball screw axis EGC-80-100-BS-20P-KF-0H-ML-GK

Part number: 3013539





## **Data sheet**

Feature	Value
Working stroke	100 mm
Size	80
Stroke reserve	0 mm
Screw diameter	15 mm
Spindle pitch	20 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
Max. acceleration	15 m/s <sup>2</sup>
Max. speed	1 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364-B2-L
Degree of protection	IP40
Ambient temperature	-10 °C60 °C
2nd moment of area ly	981000 mm <sup>4</sup>
2nd moment of area Iz	1320000 mm <sup>4</sup>
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 with theoretical service life of 100 km (from a guide perspective only)	11236 N
Fz with theoretical service life of 100 km (from a guide perspective only)	11236 N
Max. torque Mx	36 Nm
Max. torque My	97 Nm
Max. torque Mz	97 Nm
Max. moment Mx total axis	36 Nm
Max. moment My total axis	97 Nm

## **FESTO**

Feature	Value
Max. moment Mz total axis	97 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	133 Nm
My with theoretical service life of 100 km (from a guide perspective only)	357 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	357 Nm
Max. radial force on actuator shaft	250 N
Max. feed force Fx	650 N
Torsion moment of inertia It	255000 mm <sup>4</sup>
Mass moment of inertia JH per meter of stroke	0.346 kgcm <sup>2</sup>
Feed constant	20 mm/U
Reference service life	5000 km
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