

Guide axis EGC-80- -FA

Part number: 558865

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...8500 mm
Size	80
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Guide
Max. acceleration	50 m/s ²
Max. speed	5 m/s
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Degree of protection	IP40
Ambient temperature	-10 °C...60 °C
2nd moment of area Iy	844000 mm ⁴
2nd moment of area Iz	1160000 mm ⁴
Max. force Fy	3050 N
Max. force Fz	3050 N
Max. no-load resistance to shifting	15 N
Max. torque Mx	36 Nm
Max. torque My	97 Nm...228 Nm
Max. torque Mz	97 Nm...228 Nm
Max. force Fy total axis	3050 N
Max. force Fz total axis	3050 N
Max. moment Mx total axis	36 Nm
Max. moment My total axis	97 Nm...228 Nm
Max. moment Mz total axis	97 Nm...228 Nm
Torsion moment of inertia It	551000 mm ⁴
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
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...840 Nm

Feature	Value
Mz with theoretical service life of 100 km (from a guide perspective only)	357 Nm...840 Nm
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Pneumatic port on clamping unit	M5
Profile material	Wrought aluminum alloy Anodized
Note on materials	RoHS compliant
Cover profile material	ABS
Cover material	Wrought aluminum alloy Anodized
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Wrought aluminum alloy Anodized