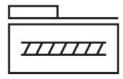
Ball screw axis ELGD-BS-KF-WD-100-300-0H-10P-L

FESTO

Part number: 8192322





General operating condition

Data sheet

re 100 oke reserve 0 mm versing backlash 150 prew diameter 10 m indle pitch 10 m ounting position Any	nm Ο μm mm
oke reserve 0 mm versing backlash 150 p rew diameter 10 m indle pitch 10 m ounting position Any	nm Ο μm mm
versing backlash 150 prew diameter 10 m indle pitch 10 m punting position Any	D μm mm
rew diameter 10 m indle pitch 10 m ounting position Any	mm
indle pitch 10 m ounting position Any	
ounting position Any	///
	mm/U
	y
ide Recir	circulating ball bearing guide
uctural design with	h ball screw
,,	epper motor rvo motor
indle type Ball s	ll screw drive
mbol 0099	991211
asuring principle of linear potentiometer Incre	remental
sition sensing For in	inductive proximity sensors
x. acceleration 15 m	m/s²
x. rotational speed 8000	00 rpm
x. speed 1.33	3 m/s
petition accuracy ±0.00	01 mm
ty cycle 1009	0%
BS (PWIS) conformity VDM	MA24364-C1-L
itability for the production of Li-ion batteries Suita	itable for battery production with reduced Cu/Zn/Ni values (F1a)
orage temperature -20 °	°C 60 °C
gree of protection IP40	.0
bient temperature 0 °C .	C 60 °C
pact energy in the end positions 0.00	01 J
te on the impact energy in the end positions At ma	maximum speed of the reference run of 0.01 m/s
d moment of area ly 3471	7100 mm⁴
d moment of area Iz 2268	68000 mm ⁴
-load torque at maximum travel speed 0.08:	83 Nm
-load torque at minimum travel speed 0.020	26 Nm
x. force Fy 4400	00 N
x. force Fz 4400	00 N
x. force Fy total axis 4092	92 N
x. force Fz total axis	50 N

Feature	Value
Fy with theoretical service life of 100 km (from a guide perspective only)	18415 N
Fz with theoretical service life of 100 km (from a guide perspective only)	18415 N
Max. torque Mx	140 Nm
Max. torque My	230 Nm
Max. torque Mz	220 Nm
Max. moment Mx total axis	160 Nm
Max. moment My total axis	191 Nm
Max. moment Mz total axis	191 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	645 Nm
My with theoretical service life of 100 km (from a guide perspective only)	720 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	720 Nm
Distance between slide surface and guide center	47 mm
Max. radial force on actuator shaft	180 N
Max. feed force Fx	1100 N
Torsion moment of inertia It	108900 mm⁴
Mass moment of inertia JH per meter of stroke	0.07554 kgcm²
Mass moment of inertia JL per kg of payload	0.02533 kgcm ²
Mass moment of inertia JO	0.05632 kgcm ²
Feed constant	10 mm/U
Reference service life	5000 km
Maintenance interval	Life-time lubrication
Moving mass	1185 g
Product weight	4749 g
Basic weight with 0 mm stroke	2979 g
Additional weight per 10 mm stroke	59 g
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Interface code, actuator	T42
Material of end caps	Aluminum gravity die-cast, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS-compliant
Cover strip material	High-alloy stainless steel
Drive cover material	Aluminum gravity die-cast, painted
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Wrought aluminum alloy
Spindle nut material	Steel
Spindle material	Steel