

# 螺桿軸

## ELGC-BS-KF-45-100-10P

料號: 8061484

FESTO



### 技術參數

特性	值
工作行程	100 mm
尺寸	45
備用行程	0 mm
反向空隙	0.15 mm
螺桿直徑	10 mm
螺桿螺距	10 mm/U
裝配位置	任何
導向	迴圈滾珠軸承導向
設計結構	機電式直線軸 具迴圈滾珠軸承螺桿
馬達類型	步進馬達 伺服馬達
螺桿類型	Ball screw
位置檢測	用於近接感測器 用於電感式感測器
最大加速度	15 m/s <sup>2</sup>
最高速度	3,600 1/min 0.6 m/s
重複精度	±0,015 mm
循環功率	100 %
PWIS conformity	VDMA24364 zone III
RSBP classification to CD-0033	F1a
無塵室等級	ISO class 7
防護等級	IP40
環境溫度	0 ... 50 °C
在端點位置的衝擊能量	0.5 mJ
Note on the impact energy it the end positions	At maximum homing speed of 0.01 m/s
轉動面積矩 2nd 度ly	140E+03 mm <sup>4</sup>
轉動面積矩 2nd 度lz	170E+03 mm <sup>4</sup>
No-load torque at maximum travel speed	0.12 Nm
No-load torque at minimum travel speed	0.032 Nm
最大輸出力Fy	300 N
最大輸出力Fz	600 N
Fy for the guide calculation for a service life of 5000 km or 5 million cycles	880 N
Fz for the guide calculation for a service life of 5000 km or 5 million cycles	880 N
Fy with theoretical service life of 100 km (from a guide perspective only)	3,240 N
Fz with theoretical service life of 100 km (from a guide perspective only)	3,240 N
最大扭矩Mx	5.5 Nm
最大扭矩My	4.7 Nm
最大扭矩Mz	4.7 Nm
Mx for the guide calculation for a service life of 5000 km or 5 million cycles	5.5 Nm

特性	值
My for the guide calculation for a service life of 5000 km or 5 million cycles	4.7 Nm
Mz for the guide calculation for a service life of 5000 km or 5 million cycles	4.7 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	20 Nm
My with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Distance between the slide surface and the centre of the guide	42.8 mm
驅動軸的最大徑向力	180 N
最大進給力 Fx	100 N
質量慣性扭矩	8.5E+03 mm <sup>4</sup>
每公尺行程的質量慣性力矩JH	0.05056 kgcm <sup>2</sup>
每kg工作負荷的質量慣性力矩JL	0.02533 kgcm <sup>2</sup>
質量慣性力矩, JO	0.0082 kgcm <sup>2</sup>
恆定進給	10 mm/U
維修間隔	終身潤滑
運動質量	220 g
每 10 mm 行程所增加的重量	36 g
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm
Static deflection (load at standstill)	0.1% of the axis length
Interface code, actuator	V32
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
材料備註	符合 RoHS
Material cover tape	高合金鋼, 耐腐蝕
Material drive cover	Die-cast aluminium, painted
Material guide slide	鋼
Material guide rail	鋼
Material slide	壓鑄鋁
Material spindle nut	鋼
Material spindle	鋼