

螺桿軸

ELGC-BS-KF-60-100-12P

料號: 8061491

FESTO



技術參數

特性	值
工作行程	100 mm
尺寸	60
備用行程	0 mm
反向空隙	0.15 mm
螺桿直徑	12 mm
螺桿螺距	12 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 ²
最高速度	4,000 1/min 0.8 m/s
重複精度	±0,01 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	1 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	441E+03 mm ⁴
轉動面積矩 2nd 度lz	542E+03 mm ⁴
No-load torque at maximum travel speed	0.246 Nm
No-load torque at minimum travel speed	0.042 Nm
最大輸出力Fy	600 N
最大輸出力Fz	1,800 N
Fy for the guide calculation for a service life of 5000 km or 5 million cycles	3,641 N
Fz for the guide calculation for a service life of 5000 km or 5 million cycles	3,641 N
Fy with theoretical service life of 100 km (from a guide perspective only)	13,400 N
Fz with theoretical service life of 100 km (from a guide perspective only)	13,400 N
最大扭矩Mx	29.1 Nm
最大扭矩My	31.8 Nm
最大扭矩Mz	31.8 Nm
Mx for the guide calculation for a service life of 5000 km or 5 million cycles	29.1 Nm

特性	值
My for the guide calculation for a service life of 5000 km or 5 million cycles	31.8 Nm
Mz for the guide calculation for a service life of 5000 km or 5 million cycles	31.8 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	107 Nm
My with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Distance between the slide surface and the centre of the guide	54.6 mm
驅動軸的最大徑向力	230 N
最大進給力 Fx	200 N
質量慣性扭矩	29.8E+03 mm ⁴
每公尺行程的質量慣性力矩JH	0.10779 kgcm ²
每kg工作負荷的質量慣性力矩JL	0.036476 kgcm ²
質量慣性力矩, JO	0.02235 kgcm ²
恆定進給	12 mm/U
維修間隔	終身潤滑
運動質量	525 g
每 10 mm 行程所增加的重量	51 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	T42
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