

螺桿軸

ELGC-BS-KF-32-500-8P

料號: 8061481

FESTO



技術參數

特性	值
工作行程	500 mm
尺寸	32
備用行程	0 mm
反向空隙	0.15 mm
螺桿直徑	8 mm
螺桿螺距	8 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	4,500 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	0.25 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	38E+03 mm ⁴
轉動面積矩 2nd 度lz	45E+03 mm ⁴
No-load torque at maximum travel speed	0.04 Nm
No-load torque at minimum travel speed	0.02 Nm
最大輸出力Fy	150 N
最大輸出力Fz	300 N
Fy for the guide calculation for a service life of 5000 km or 5 million cycles	356 N
Fz for the guide calculation for a service life of 5000 km or 5 million cycles	356 N
Fy with theoretical service life of 100 km (from a guide perspective only)	1,310 N
Fz with theoretical service life of 100 km (from a guide perspective only)	1,310 N
最大扭矩Mx	1.3 Nm
最大扭矩My	1.1 Nm
最大扭矩Mz	1.1 Nm
Mx for the guide calculation for a service life of 5000 km or 5 million cycles	1.3 Nm

特性	值
My for the guide calculation for a service life of 5000 km or 5 million cycles	1.1 Nm
Mz for the guide calculation for a service life of 5000 km or 5 million cycles	1.1 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	5 Nm
My with theoretical service life of 100 km (from a guide perspective only)	4 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	4 Nm
Distance between the slide surface and the centre of the guide	31.4 mm
驅動軸的最大徑向力	75 N
最大進給力 Fx	40 N
質量慣性扭矩	1.7E+03 mm ⁴
每公尺行程的質量慣性力矩JH	0.02218 kgcm ²
每kg工作負荷的質量慣性力矩JL	0.016211 kgcm ²
質量慣性力矩, JO	0.00274 kgcm ²
恆定進給	8 mm/U
維修間隔	終身潤滑
運動質量	83.4 g
每 10 mm 行程所增加的重量	18 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	V25
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