

MTDD

In combination with the new compact MTDD, the XXS motor achieves maximum dynamic performance and precision with low heat generation. The digital technology also provides the system status values and output signals relevant for the respective application.

XXS马达与新型MTDD数字伺服驱动器板相结合，可在不产生热量的情况下实现最大的动态性能和精度，同时数字技术还可提供与各自应用相关的系统状态值和输出信号。

Flexibility to the User

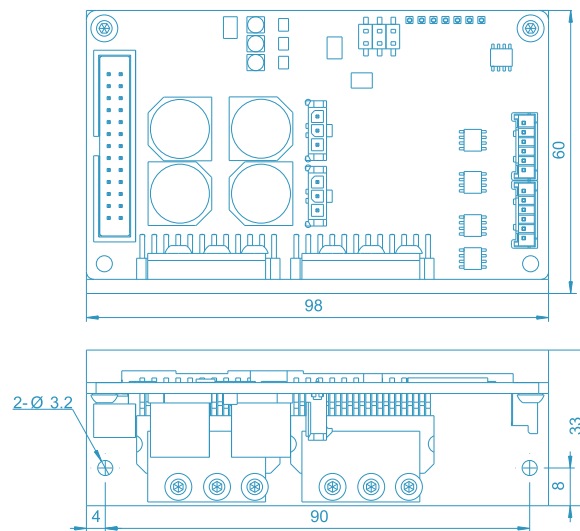
- Extensive choice of control options depending upon cost and performance goals
- Miniature digital servo drivers to fit the most compact systems

用户的灵活性

- 根据成本和性能目标，广泛选择控制选项
- 微型数字伺服驱动器，适合最紧凑的系统

Examples of suitable Ray-motion servo boards

MTDD



上述资料如有更改，将不作另行通知。The above information is subject to change without notice. 09/2020

XXS GolvoMotor Specifications

XXS 马达规格参数

转动惯量 Rotor Inertia	0.018g·cm ² , ±10%
扭矩常数 Torque Constant	2.2N·mm/A
线圈电阻 Coil Resistance	2.7Ω, ±10%
线圈电感 Coil Inductance	70μH, ±10%
平均电流 RMS Current	2A at Tcase of 50°C , Max
峰值电流 Peak Current	8A, Max

重量 Weight(without cable)	19g
推荐孔径 Recommended aperture	3-7mm
最大扫描角度 Maximum scan angle ⁽¹⁾	±20°
工作温度 Operating temperature(non-condensing)	25±15°C

阶跃响应时间 Step response time	190us
1%全范围响应时间 1% of full scale ⁽²⁾	

线性度 Linearity ⁽³⁾	99.5%, Minimum over 20 degrees
零点漂移 Offset drift	15μrad/°C , Maximun
增益漂移 Gain drift	50PPM/°C , Maximung
可重复性 Repeatability(RMS)	5 microradians
传感器输出信号 Typital output signal	
-差模电流 Differential mode	9.6uA/°, at common mode current of 189uA , ±20%
-共模电流 Common mode	189uA with an AGC current of 20.66mA, ±20%
传感器供电电流 Supply current	20-55mA

(1)所有角度均为光学角 All angles are in optical degrees.

(2)稳定至满量程的1/100;阶跃响应时间取决于系统调节参数和镜片惯量。

Settling to 1/100 of full scale; step response time depends on the tuning and the inertia of the mirror.

(3)扫描角度为-20° 到+20° 。 For scan angles from -20° to +20° .

上述资料如有更改, 将不作另行通知 The above information is subject to change without notice. 07/2020

