

产 品 仕 样 书

(PRODUCT SPECIFICATION)

客户 (CUSTOMER) : 矽递科技

型号 (MODEL) : XH-500-37D-1

日期 (DATE) : 2014-09-24

在您下单采购本产品前请您阅读本仕样书并在下列承认栏内签字回传至本公司

客 户 承 认 栏

承认	审阅	审阅

信和电机 承 认 栏

承认	审核	作成
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XH-500-37D-1

1. 使用条件:

1.Standard Test Conditions:

1.1 额定电压:	12.0V 直流稳压
1.1 Rated Voltage:	12.0V DC CONSTANT.
1.2 电压范围:	1.0-15.0V 直流 (在电机两个端子间)
1.2 Operating Voltage Range:	1.0-15.0V DC (at motor terminals).
1.3 额定负载:	2.0kg-cm (径向负载)
1.3 Rated Load:	2.0kg-cm by pulley load.
1.4 旋转方向:	轴伸方向视为顺时针
1.4 Direction of Rotation:	CW viewed from protruded shaft.
1.5 工作温度范围:	-30°C---+70°C
1.5 Operating temperature Range:	-30°C---+70°C
1.6 储存温度范围:	-40°C---+85°C
1.6 Storage temperature Range:	-40°C---+85°C

2. 测试条件:

2.Measuring conditions:

2.1 电机姿势:	将要测试的电机横向放置
2.1 Motor Position:	To be measured with motor horizontally held.
2.2 测试电源:	直流稳压电源
2.2 Power Source:	To be regulated DC power supply which assures unquestionable measurement.

2.3 湿度和温度

原则上测试环境温度在+5℃---+35℃，相对湿度 30%---90%，如测量结果的判定有异议可参照 JIS 试验标准进行测试（18℃---22℃，60%---70%）

2.3 Temperature and Humidity:

In principle , measurement is to be made at+5℃---+35℃ and relative humidity 30%---90%. If the judgment is questionable, measurement is to be made based on JISstandard testing condition(18℃---22℃, 60%---70%).

3. 电气特性:

3. Electrical Characteristics:

3.1 空载转速:

额定电压下，空载 $365 \pm 10\%$ rpm

3.1 Speed Under No Load:

at rated voltage , no load , $365 \pm 10\%$ rpm

3.2 额定负载转速:

额定电压额定负载下， $300 \pm 10\%$ rpm

3.2 Rated Load Speed:

at rated voltage , rated load , $300 \pm 10\%$ rpm.

3.3 空载电流:

额定电压下，最大 350mA

3.3 Current under no load:

at rated voltage , 350mA max.

3.4 负载电流:

额定电压下， 最大 1A

3.4 Rated Load Current:

at rated voltage , 1A max.

3.5 堵转力矩:

额定电压下，至少 10kg-cm

3.5 Stall Torque:	at rated voltage , 10kg-cm min.
3.6 堵转电流:	额定电压下, 最大 6.5A
3.6 Stall Current:	at rated voltage , 6.5A max.
3.7 空载启动电压:	最大 1.0V
3.7 No load Starting Voltage:	1.0Vmax.
3.8 绝缘电阻:	在 250V DC 时电机端子与外壳之间大于 20 M Ω
3.8 Insulation Resistance:	At 250V DC between motor terminal & housing:20M Ω min.
3.9 电气噪音:	电机已安装压敏电阻
3.9 Electrical noise:	Motor to be equipped with varistor.

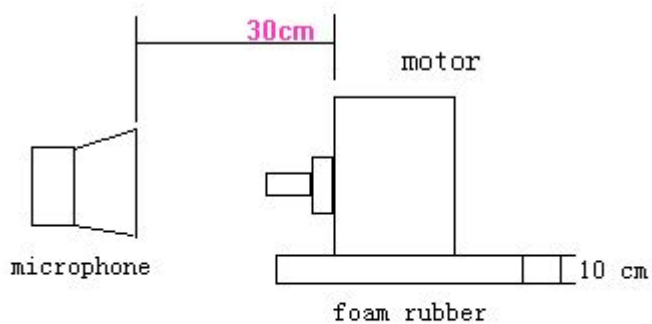
4. 机械及功能特性:

4. Mechanical & Functional Characteristics:

4.1 轴向间隙:	0.05-0.55mm
4.1 Shaft End Play:	0.05---0.55mm.
4.2 减速比:	30:1
4.2 Reduction Ratio:	30:1
4.3 单体重量:	约 200g
4.3 Weight:	Approx. 200g.
4.4 机械噪音:	最大 50dB (RMS), 在下列条件测试下: 额定电压, 空载, 电机水平放置, 测量标准参照 JIS (RMS), 电机外壳下垫放 10cm 厚的泡沫橡胶, 测量仪器离

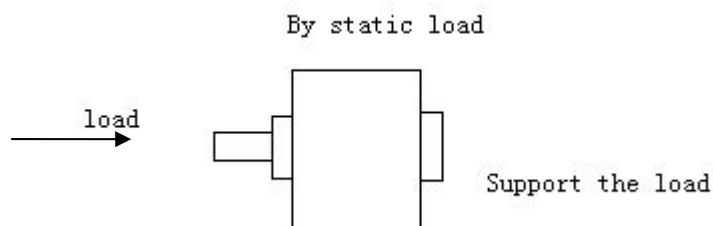
轴伸面 30cm 处测量，且环境噪音小于
26dB

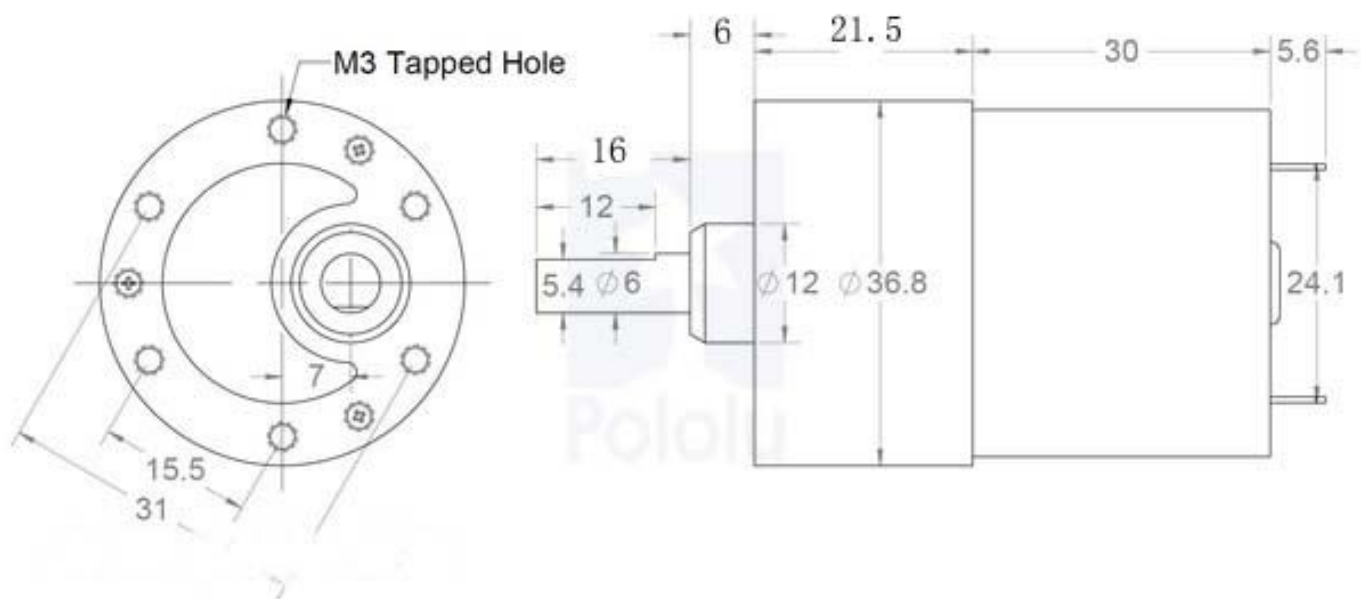
4.4 Mechanical noise: 50dB (RMS), the largest in the following conditions test: the rated voltage, racing, motor level measurement standard reference JIS placed, RMS), motor (10cm thick carapace mat put the foam rubber, measuring instruments off-axis extensor surface 30cm place measurement, and environmental zha noise is less than 26dB



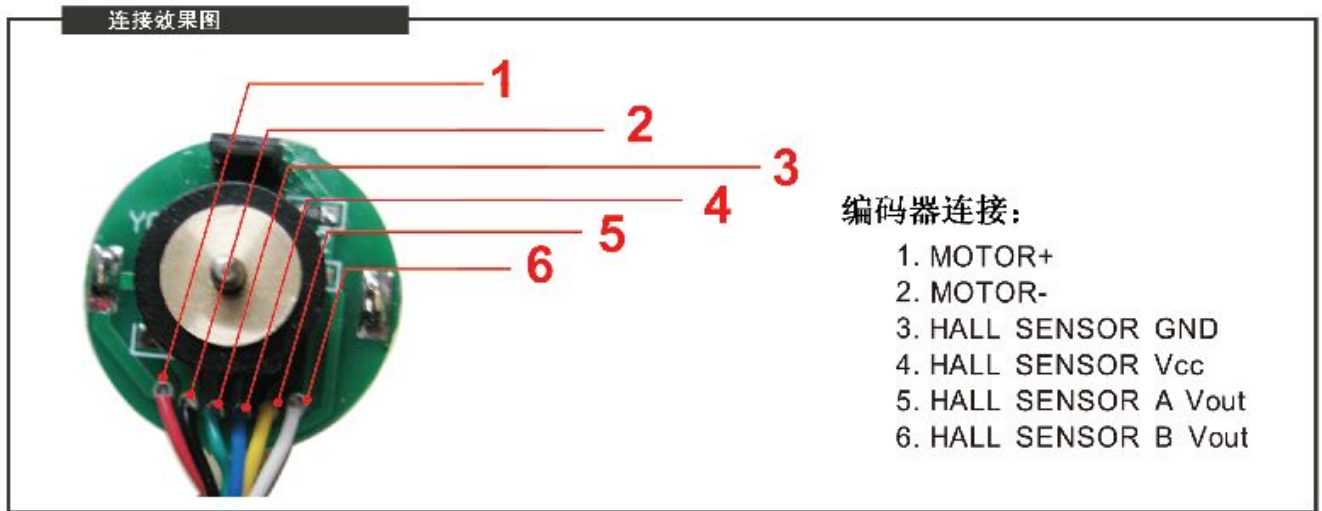
4.5 轴向允许最大推力：最大 20kg

4.5 Maximum Axial Load: 20kg(max).





7. Encoder



A two-channel Hall effect encoder is used to sense the rotation of a magnetic disk on a rear protrusion of the motor shaft. The quadrature encoder provides a resolution of 64 counts per revolution of the motor shaft when counting both edges of both channels. To compute the counts per revolution of the gearbox output, multiply the gear ratio by 64. The motor/encoder has six color-coded, 200mm leads terminated by a 1×6 female header with a 0.1" pitch, as shown in the main product picture. This header works with standard [0.1" male headers](#)

Lead wire: 6-200mm+/-10 (include two terminal cover size)

For power- Red/black: 2-UL1007 AWG24# 80℃ 300V

For encoder- green/blue/yellow/white: 4-UL1007 AWG26# 80℃ 300V

Terminal: female/male 0.1"

Header(terminal cover): type:2.54-6AP with buckle

Out size:16*7*8.3mm, with 6-0.1"pitch,white/nylon

The Encoder lead wires will follow the last orders.