

天沃环球集团有限公司
TEAMWORK GLOBAL GROUP LTD

样品规格书
Sample Specification

品名: Product Name	永磁直流减速电机 Permanent Magnet DC Gear Motor
型号: Model	33B
型号规格: Model specification	TW-33B365-20-09412
供方名称: Supplier name	天沃环球集团有限公司 TEAMWORK GLOBAL GROUP LTD
地址: Address	Room 24B, Unit 2, Dongfang Building, Songgang Street, Bao' an District, Shenzhen, China
联系方式: Contact information	Tel:0086-755-85265699 Fax:0086-755-85266599
样品单号: Sample number	XG-180514048

制订 Design	余庭茂	审核 Check		批准 Approval	
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客户确认 Customer Approval	
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注意事项 Special Remarks:

1. 本规格书一式两份，双方签字后正式生效；版本由使用方与供方共同维护。

This specification is in duplicate, it shall take effect after it is signed by both parties. The version is maintained by the user and the supplier.

2. 任何对内容的改动必须经双方同意，并以书面文件的形式发布。

Any changes to the content must be agreed upon by both parties and published in written form.

3. 请务必按使用条件正确使用。

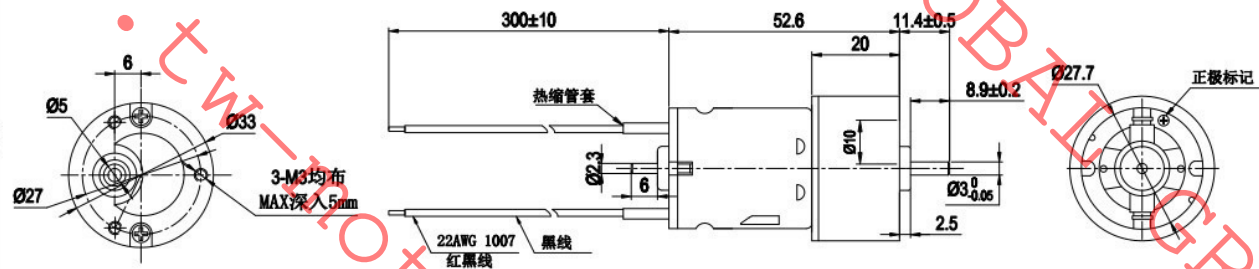
Please be sure to use the conditions correctly.

4. 本规格书共 6 页（含本页）

6 pages of this specification (including this page)

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TEAMWORK GLOBAL GROUP LTD

电机型号(Model):	33B365-20-09412	样品单号(Sample Code):	IG-180514048	日期(Date):	2018.6.14
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天沃环球
TEAMWORK MOTOR

外形图
Outline drawing

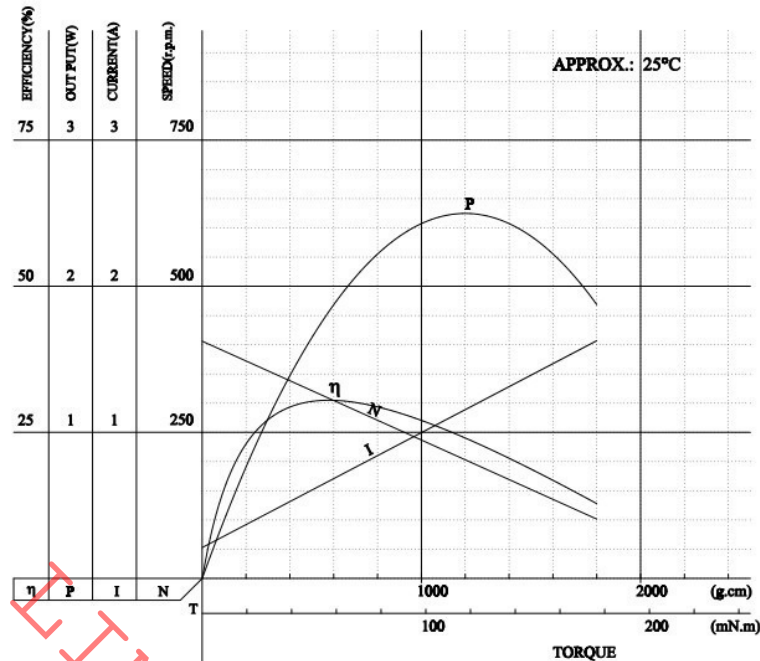
客户确认:

制订: Drawing	余庭茂
审核: Checked	
批准: Approved	

Unit	mm	Size	A4
Edition	A0	Scale	1:1
Phase marker	S		
		Page	5/6

REFERENCE ONLY

NO LOAD		AT MAX. EFFICIENCY					STALL	
SPEED (r.p.m.)	CURRENT (A)	SPEED (r.p.m.)	CURRENT (A)	TORQUE (g.cm)	OUT PUT (W)	EFFICIENCY (%)	CURRENT (A)	TORQUE (g.cm)
406	0.21	310	0.67	578	1.83	30.5	2.1	2400



一、适用范围 Application:

本文规定了由天沃环球集团有限公司交付的 TW-33B365-20-09412 直流减速电机的有关技术要求和实验方法。

This document stipulated about the technical requirement and experiment method of TEAMWORK GLOBAL GROUP LTD ***TW-33B365-20-09412*** Permanent magnet DC gear motor

二、标准使用条件 Standard operation conditions:

电源: Power	直流稳压电源 power supply	减速比: Rated	1: 20
额定电压: voltage	9 VDC	工作电压范围: Operation voltage range	5~9VDC
额定负载: load	0.6 Kgf.cm	旋转方向: Direction of rotation	CW
工作环境: Operation temperature	温度: -10~+60℃; 湿度: : 10%~90%	保存温度范围: Storage temperature	温度:-15℃~+65℃ 湿度: 10%~90%
马达方向: Motor direction	出轴全方向	轴向间隙: Axial gap	0.03-0.5
轴伸径向圆跳动: Rounded run-out of shaft and extension		电机重量: Motor weight	210g ref
绝缘阻抗 Insulation resistance (电机外壳与端子间) (From the motor surface to the terminal):	10MΩ Min@100VDC	高压试验 High voltage test (电机外壳与端子间) (from the motor surface to the terminal):	100VAC/0.5mA/1S

三、性能:

1、减速电机必需满足以下要求(额定电压 Rated voltage:12VDC):

负载点 Load point	扭矩 Torque (Kgf.cm)	转速 Speed (rpm)	电流 Current (mA) ref.
空载 Freeload	0	406±10%	211 (460 Max.)
负载 On-load	0.6	576±10%	576 (860 Max.)
堵转 Stall-torque	≥1.9Kgf.	0	2100 REF.

注意事项:

1) 起动电压(空载)

Start voltage(Noload): ≤1.6V

2) 堵转电流和扭矩测试时间

Stall torque measured time: ≤2 秒(2 秒内完成读数 Stall current (Rated voltage, record within 2S))

2、减速电机的性能曲线(如图 1 参考) Character church(only referenCe)

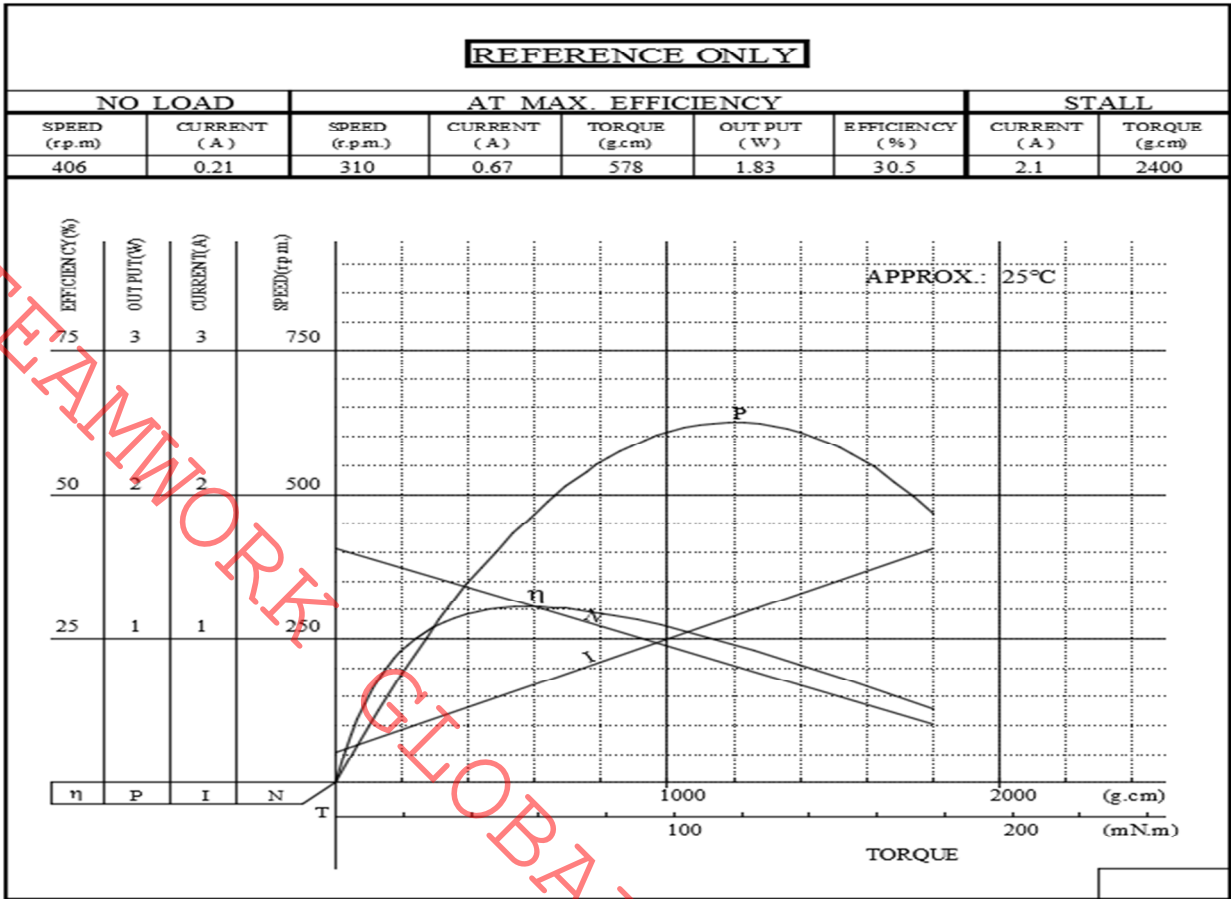
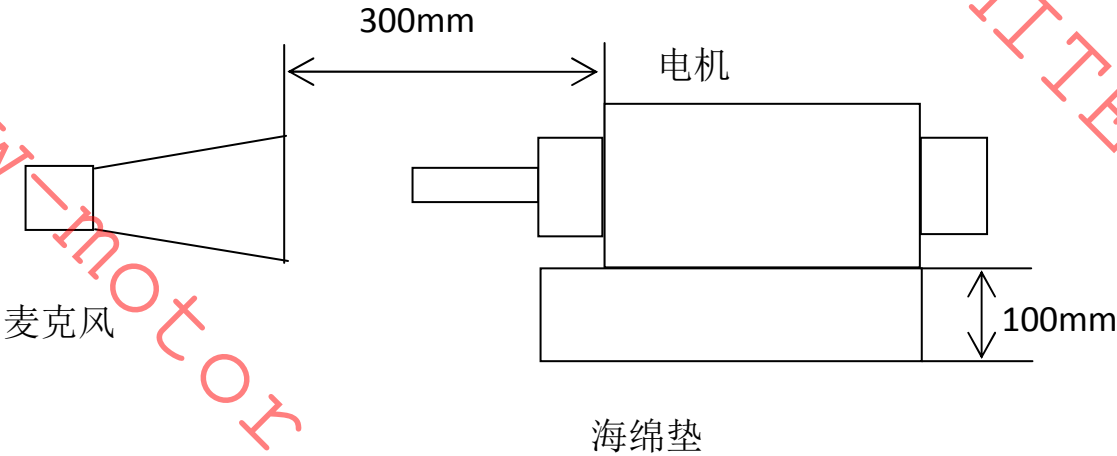


图 1

四、噪音及振动要求

序号	项目	测试环境	标准
1	环境噪声 environment noise	1. < 35dB	≦60dB
		2. 空载, 距离输出轴端面 No load, distance 300mm	

1、机械噪声 Mechanical noise



2、电机振动（空载）Motor shake (No load): 待定 TBD

五、寿命要求及测试条件 Life test and test condition:

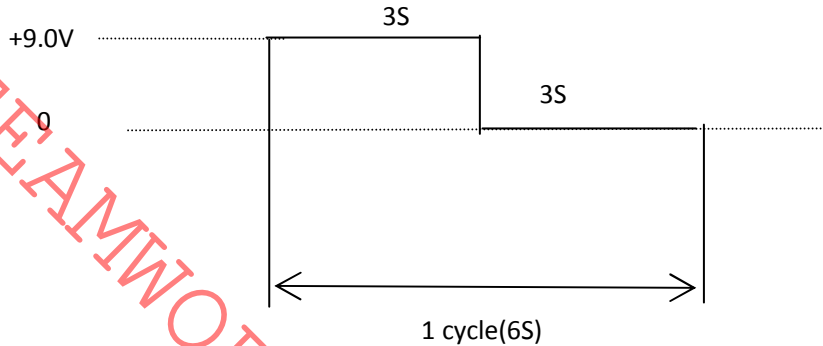


图 2

1、测试条件 Test condition:

1) 温度 Temperature: 25~30℃;

2) 湿度 Humidity: 25~85%.

2、工作循环 Recycle:

1) 试验模式: 额定负载, 断续运行, 运行 3 秒停 3 秒 Test mode: rated load: ON 3S OFF 3S

2) 寿命 20000 个循环以上 Life expectancy is more than 20000 cycle.

六、※注意事项 (caution):

1、避免在腐蚀（特别是硫磺气体）环境中使用和保存。

Avoid use and preservation in corrosive (especially sulphur gas) environment.

2、通电时电机不允许有卡顿及堵转使用，这样会使电机或齿轮箱损坏。

When the power is on, the motor does not allow to be blocked at stall. This will damage the motor or gear box.

3、电机端子需注意：烙铁温度应保持在 380℃，烙铁接触端子时间不得超过 2S。

motor terminal : The temperature of the soldering iron should be kept at 380℃; Do not pass more than two seconds when the soldering iron contacts the terminal.

4、不允许更改马达任何尺寸。

Don't change the motor's any dimension.

5、当使用或测试不当或故意损坏时，厂家不承担责任。

Manufacturers are not liable for improper use or testing.

6、收货后一年内（12 月），如果因为电机性能不良问题允许换货。

Within one year (12 months) after receiving the goods, it is allowed to replace the goods because of poor performance of the motor.