

Specification for Gear Motor

Model: 312-004

客户确认回签 CONFIRMED & SIGNED BY CUSTOMER	供应商确认 CONFIRMED & SIGNED BY NFP
COMPANY, CHOP & SIGNATURE:	COMPANY, CHOP & SIGNATURE:
日期 DATE:	日期 DATE:

1. 规格书请在一周内确认并回签，逾期未作回传会视作默认处理，请充分了解。

Pls countersign the specification within one week once approval. If no countersigning, we will consider it as accepted at your side. Please fully understand this situation.

2. 在电机符合本规格书的前提下，我司出于技术进步或者生产效率的考虑，可能会自行更改制造过程。电机的性能参数以客户最终确认的样板为准。

With in the limit of satisfying this specification, the manufacturing processes may be changed without notice, for the purpose of improving performance and/or production efficiency of the motor. Reference for the characteristics of the motor are the final delivered samples as customer confirmed.

Prepared by	Checked by	Approved by
Hilton Qin	Sidney Li	Frank So

Customer Name: _____

Customer Model: _____

Customer Comment: _____

Customer Approval / Date: _____

REV: A

MS: 1009004

技术标准

1. 适用范围 (Scope):

本文规定 NFP-312-004 直流永磁电动机有关技术要求和试验方法。

(This spec specifies the related technical data and test methods of NFP-312-004 DC motor.)

2. 使用条件 (Operating Conditions):

Item No	Items	Rating
2-1	使用温度范围 (Operating Temperature Range)	-10° C~+60° C
2-2	使用湿度范围 (Operating Humidity Range)	10%~90% RH
2-3	测试环境 (Test Environment)	温度+15° C~+30° C, 相对湿度 30%~70% RH 的环境进行测试 (Temperature:+15° C~30° C, Relative Humidity: 30%~70%.)
2-4	旋转方向 (Direction of Rotation)	从输出轴侧看CW (CW.is viewed from output shaft side.)

3. 电气特性 (Electrical Characteristics) :

Item No	Items	Rating
3-1	额定电压 (Rated Voltage)	1.5 V DC
3-2	使用电压范围 (Operating Voltage Range)	1.0V~2.4V DC
3-3	额定负载 (Rated Load)	R6X4.8振子
3-4	空载电流 (No-load Current)	120 mA MAX
3-5	空载转速 (No-load Speed)	9000 ± 1080 rpm
3-6	负载电流 (On-load Current)	295 mA MAX
3-7	负载转速 (On-load Speed)	7000 ± 700 rpm
3-8	起动电压 (Stall Voltage)	0.8 V (MAX)
3-9	绝缘电阻 (Insulation Resistance)	1.0 MΩ MIN, at100V DC meg
3-10	堵转电流 (Stop Current)	0.88 A (MAX)

4. 机械特性 (Mechanical Characteristics) :

Item No	Items	Rating
4-1	轴向间隙 (End Gap)	0.05~0.35 mm
4-2	单台重量 (Weight)	10 g(Reference)
4-3	机械噪音 (Mechanical Noise)	55 db (MAX) 100mm(背景噪音<32db)
4-4	轴向推力 (Axial Force)	8.0 kgf (MAX)

5. 可靠性 (Reliability) :

Item No	Items	Rating
5-1	1. 寿命测试 (Life Test)	1. 电机在额定电压和额定负载状态下连续运转100小时, 测试后额定转速变化量应不大于初期值的±50% (The speed changed should conform±50% initial value after it run continuously for 100 hours with rated voltage and load.) 2. 测试后电流变化量应不大于初期值的±50% (The current added shouldn't be more than±50% initial value.) 3. 电机无明显的异常现象 (No obvious abnormality.)

