

REV: A
MS: 0904008K

技术标准

1. 适用范围 (Scope):

本文规定 MRF-0408BY-25 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 MRF-0408BY-25 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/CCW (CW/CCW.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)	3.0 V DC
3-2	使用电压范围 (Operating Voltage Range)	2.5V~3.5V DC
3-3	额定负载 (Rated Load)	R2.0X2.0振子
3-4	负载电流 (On-load Current)	85 mA MAX
3-5	负载转速 (On-load Speed)	13000 ± 2000 rpm
3-6	起动电压 (Stall Voltage)	2.0 V (MAX)
3-7	绝缘电阻 (Insulation Resistance)	1.0 MΩ MIN, at100V DC meg
3-8	堵转电流 (Stop Current)	0.095 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	轴伸径向圆跳动量 (Shaft Radial Run-out)	距轴端部1.0mm处测试应不大于0.1mm (It shall not be more than 0.1mm on the test point which is 1.0mm of output shaft side.)
4-3	单台重量 (Weight)	1.2 g(Reference)
4-4	机械噪音 (Mechanical Noise)	50 db (MAX) 100mm(背景噪音<26db)
4-5	轴向推力 (Axial Force)	2.0 kgf (MAX)
4-6	轴向垂直度 (Axial Upright Degree)	90°±1°

5. 寿命测试 (Life Test):

Item No	Items	Rating
5-1	1. 额定电压 (Rated Voltage) 2. 额定负载 (Rated Load)	1. 电机在额定电压和额定负载状态下连续运转72小时,实验后额定转速变化量应不大于初期值的±30% (The speed changed should conform ±30% initial value after it run continuously for 38 hours with rated voltage and load .) 2. 电流增加应不大于初期值的30% (The current added shouldn't be more than 30% initial value.) 3. 电机无明显的异常现象 (No obvious abnormality.)