

项目 Items	规格 Specification	条件及其它 Conditions and others
1 标准使用状态 Standard Operating Conditions		
1.1 额定电压 Rated voltage	DC 5.0V	电源电压
1.2 励磁方式及驱动方式	2相励磁，电压限制微步驱动，每步18°	
1.3 额定负载 Rated load	挂重≥300g（采用专用治具，挂重治具转轴Φ3mm）	5V/2400PPS，方波驱动(此规格采用专用治具检测，治具图片如附件)
1.4 旋转方向 Direction of rotation	CW/CCW	
1.5 减速比 Deceleration ratio	120.4/ 1	
1.6 使用温度范围 Operating Temperature Range	-20℃~+55℃	
1.7 保存温度范围 Storage Temperature Range	-20℃~+60℃	
1.8 使用姿势 Operating position	出力轴全方向 All directions of output shaft	
2 测试条件 Testing condition		
2.1 电机安装方式 motor installation	出力轴水平放置 To be place in a horizontal position based on motor shaft	
2.2 电源 Power Supply	可调节直流稳压电源，确保测量时无疑问 Regulated power supply, please make sure no problem of power supply.	专用驱动程序使用，脉冲电压5V方波
2.3 温度、湿度 Environmental Temperature and Humidity	原则上温度为10℃-30℃，湿度为30-95%。 Temperature: +10℃ - +30℃, Relative humidity: 30% - 95%	如果测试结果有疑问，则按JIS标准(20℃±1℃, 63%-67%RH) If the test result is questionable, it shall be judged from the test made at JIS Standard Testing Condition (20℃±1℃, 63%-67%RH)
3 电气特性 Electrical Characteristics		
3.1 转子电阻 Rotor resistance	14Ω±10%	25℃
3.2 起动电压 Starting voltage	4.0V	无负荷, 2400pps状态 No load 2400pps
3.3 起动力矩 Starting torque	0.9gf.cm Min	通过测试电机计算 Calculated by testing the motor
3.4 反驱力矩	≤750gf.cm REF	原则上20次取平均值，暂定规格
3.5 绝缘耐压 Insulation resistance	3mA Max	AC 100V(50/60Hz) , 1s
3.6 耐热等级 Grade of heat resistance	F种 155℃	马达线圈 Magnet wine

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4 构造机械特征 Mechanical Construction characteristics		
4.1 外观 External appearance	外形尺寸见各级减速器外形图，外观无明显划伤及变形(Overall dimensions, see figure, the exterior appearance at all levels reducer no obvious scratches and deformation)	目测 visual
4.2 轴向间隙 Shaft end play	0.03~0.25mm	
4.3 齿轮箱传动间隙	小于等于10°	使用专用检具检测
4.4 重量 weight	约 2.5 g about 2.5 g	
4.5 噪声 noise	不大于55dB（环境噪音30dB以下） No more than 55dB（environmental noise below 30dB）	用声级计，距离马达10cm，从减速器端面测试。
5 寿命 life Test		
5.1 试验电压 Test voltage	DC 5.0V/2400PPS	电源电压
5.2 试验环境 Test environment	(+)18℃~(+)22℃	
5.3 测试负载 Test loads	65gf.cm	实际装机测试
5.3 时间 time	100,000周期 100,000 Cycles	5V 2400PPS CW 0.5，停1秒，CCW0.5s，停1秒（连续运行150次后，暂停1min）累计运行100000次循环

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6、产品使用注意事项：

Operating and Maintenance Instructions

- 输出轴面：特别不可让类似除气粘合剂等物沾污减速器输出轴；不要使减速器轴枝和轴承等承受太大的轴向力或侧力，因为它可能会导致减速器零部件变形或失效；等等。以上操作可能导致减速器性能下降甚至失效。
1. Output shaft side: The output shaft should keep from binders or other organic solvent; Please avoid large force on the axial or radial direction, because it may cause deformation or failure of the components in the Planetary Gear Reducers, etc. The above operation may cause the reduction or failure of the Reducers performance.
- 减速器的使用：①马达在连接电源时，马达端子不可承受太大的推力或过热，它可能会损坏减速器内部元件；
②不宜让减速器长时间过载下运行，更不可让减速器在过压或临近堵转下使用，它会导致减速器性能下降甚至迅速失效；③马达许多金属零件是裸露而易受侵蚀的，因此马达不宜在易受侵蚀环境下使用；等等。
2. The operation of the Reducer: ①The motor terminator can't bear too large axial force or high temperature, it may destroy the component of the reducer. ②The reducer should not run for a long time when it is over loaded, and especially should prevent from running at overvoltage condition or when the out shaft is locked. ③Lots of metal components in the gearmotor are erodible, so the motor are not suitable to be used in erodible circumstance.
- 马达的储存：①马达不宜裸存；②不宜在易受侵蚀环境下存放；③储存温度为 -40℃~+70℃；等等。
3. The storage of the gearmotor: ①The motor should not be stored without protection; ②The motor should not be stored in erodible circumstance; ③The storing temprature is -40℃~+70℃; etc.

请相信：兆威有一个坚实的团队从事于齿轮箱减速器的设计生产和应用，我们的齿轮箱减速器帮你解决马达在新产品应用上所遇到的问题。我们一直引以为豪的是我们与客户良好的合作关系，能帮助你解决你在生产中可能遇到的难题是我们最大的荣幸。

Please believe: Zhaowei has a very excellent work team to design, manufacture and develop gear box reducers, we can deal with the problems during the application of the new products quickly. Keeping good relationship with our clients is our principle, and it is our honor to help you solving the

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