

Production Specification

产品仕様书

RF300C-11440.

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|-----------------------------------|--|
| 1. Measurement condition | 测定条件 |
| 1-1 Motor Position | Motor to be held, with shaft horizontally |
| 马达姿势 | 出力轴水平放置 |
| 1-2 Power Supply | Regulated power supply which assure unquestionable measurement. |
| 电源 | 可调节直流稳压电源, 确保测量时无疑问。 |
| 1-3 Environmental Temperature | The test is made in principle of a temperature between 10°C to 30°C |
| And Humidity | And at relative humidity between 30% and 95%, If the test result |
| 温度和湿度 | is questionable, it shall be judged from the test made at JIS Standard Testing Condition (20°C ± 2°C, 60%-70%RH) |
| | 原则上温度为10°C-30°C, 湿度为30%-95%。如果测试结果有疑问, 则按JIS标准 (20°C ± 2°C, 60%-70%RH)。 |
| 2. Standard Operating Conditions | 标准使用条件 |
| 2-1 Rated voltage | 3.0V DC CONSTANT between motor terminals |
| 额定电压 | 马达端子间3.0V DC |
| 2-2 Operating voltage range | 2.0V-5.9V DC CONSTANT between motor terminals |
| 使用电压范围 | 2.0V-5.9V (马达端子间) |
| 2-3 Rated load | 0.392mN*m by pulley load |
| 额定负载 | 0.392mN*m (8.0g*cm) 力矩盘负载 |
| 2-4 Direction of rotation | CW & CCW |
| 旋转方向 | 正转或反转 |
| 2-5 Rang of operating temperature | -10°C ~ +60°C |
| 使用温度范围 | |
| 2-6 Storage Temperature Range | -40°C ~ +80°C |
| 储存温度范围 | |

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|-----------------------------|---|
| 3. Electrical specification | 电气性能 |
| 3-1 NO Load Current | 30mA MAX |
| 空载电流 | |
| 3-2 NO Load speed | 3700±370rpm/min |
| 空载转速 | |
| 3-3 Rated Load Current | 85mA MAX |
| 负载电流 | |
| 3-4 Rated Load Speed | 2800±280rpm/min |
| 负载转速 | |
| 3-5 Starting Torque | 0.981mN.m(10.0g.cm)MIN Rated Voltage based on measurement at two different Load(0g-cm and 4g-cm)0.981mN.m(15.0g.cm)MIN 额定电压, 测试0g-cm和4g-cm两点不同的负载推算15.0g.cm MIN |
| 堵转力距 | |
| 3-6 Starting Current | 325mA MAX |
| 启动电流 | |
| 3-7 Starting voltage | 0.4V MAX |
| 启动电压 | |
| 3-8 Insulation resistance | DC 100V 1.0MΩ MIN |
| 绝缘电阻 | |
| 3-9 Current Waveform | At 3V DC and no load. Free from off point 3V, 空载无波形掉落 |
| 电流波形 | |
| 3-10 Electrical noise | Motor to be equipped with varistor 电机已装有电噪音抑制元件压敏电阻 |
| 电气噪音 | |

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4. External & Functional Characteristics 结果及机械性能

4-1 Shaft End Play 0.02-0.25mm

轴向间隙

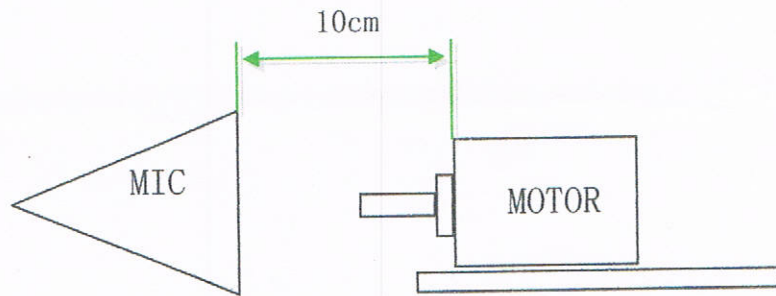
4-2 Weights Approx 21.5g

重量

4-3 Mechanical Noise 40dB-A MAX

At 2000rpm/min and no load measured at 10cm from the mounting surface, and back ground noise to be 26dB(max)

2000rpm/min 空载转速, 10cm距离, 背景噪音不大于26dB-A.

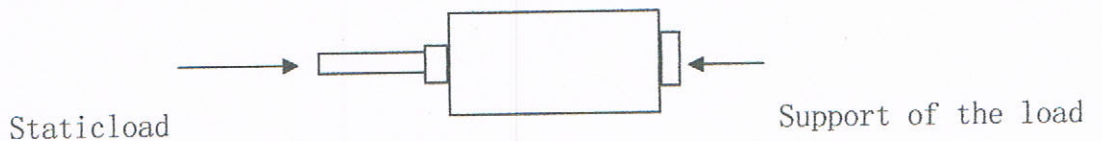


4-4 Maximum Axial Load

轴向最大负荷

Direction of static load and support of measured by JIS-A(RMS), at 10cm away from metal housing

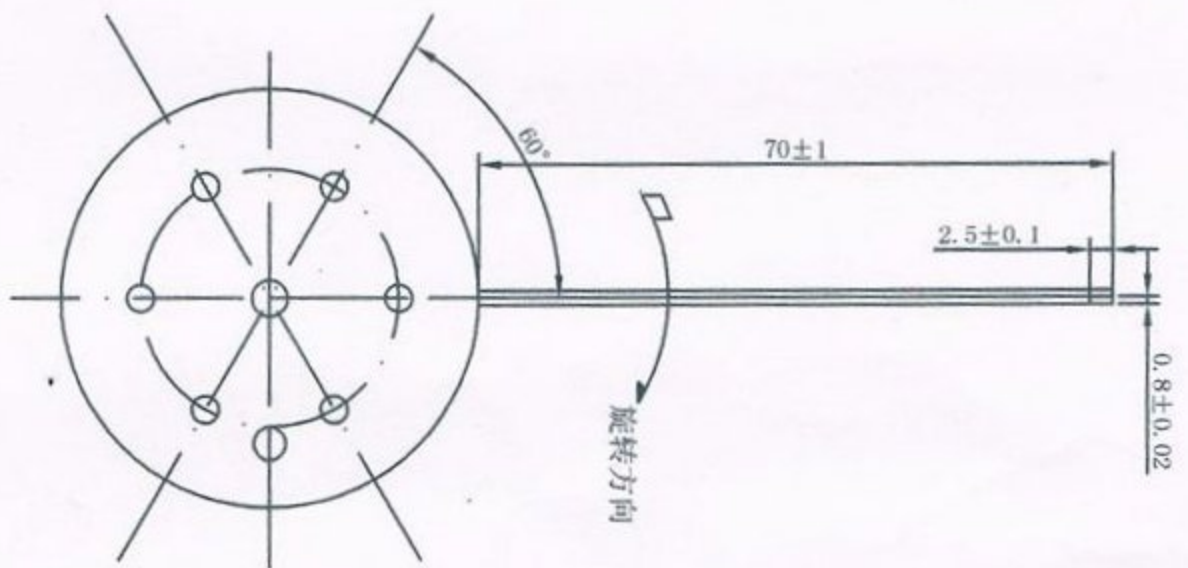
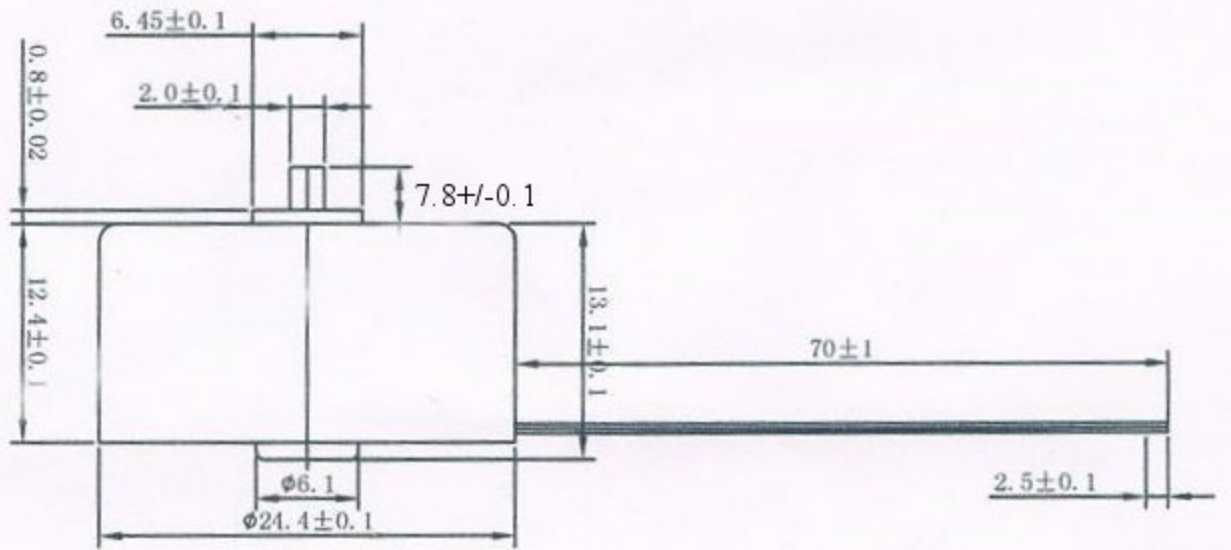
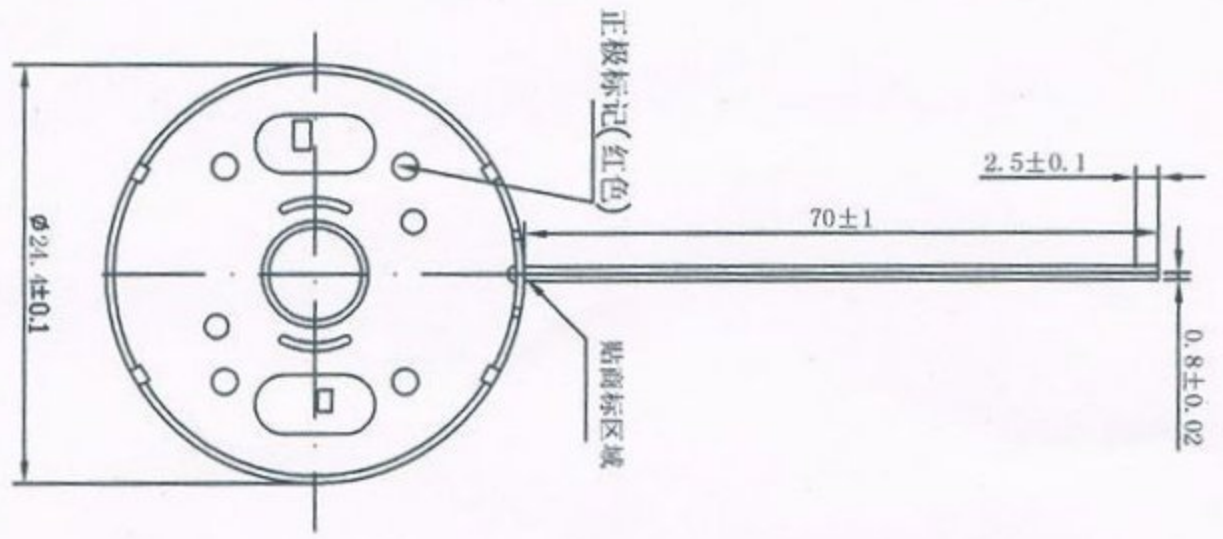
轴向静推力和支撑位置的方向如下图 196N MIN



4-5 Perpendicularity of 90° ±12'

output shaft

出力轴垂直度



| | | | | |
|----|-----|-------|------------|----|
| 标记 | 处数 | 更改文件号 | 签字 | 日期 |
| 设计 | 陈东海 | 标准化 | 张基超 | |
| 审核 | 黎莹 | 审定 | 张基超 | |
| 工艺 | 黄华勋 | 日期 | 2012-10-20 | |

外形图

1EA4M10A12300

RF-3000C-11440

| | | |
|--------|--------|-----|
| 图样标记 | 重量 | 比例 |
| S | 21.5g | 2:1 |
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