

# COOLCOX CORPORATION

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## **PART NO.: CCM-300CM**

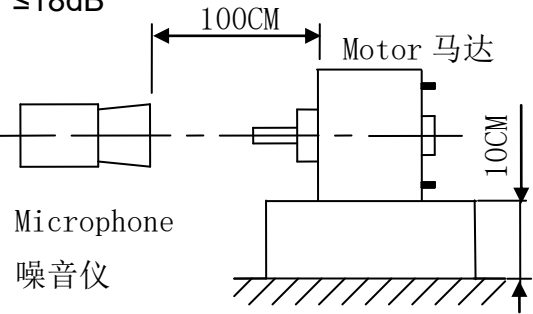
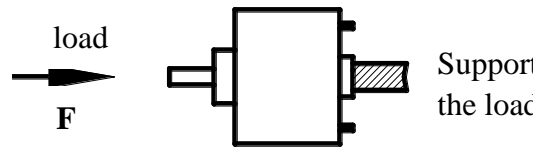
### **1、 Standard Operating Condition 标准工作条件**

	ITEMS / 项目	SPECIFICATION / 规格
1-1	Application 用途	香酚机 Aroma Diffuser
1-2	Load Items 负载类型	PP 塑胶 9 片反叶白色 (PP Plastic 9 blades)
1-3	Rated Voltage 额定电压	(3.0) V DC
1-4	Rated Load Speed 额定负载转速	(2000±10%) RPM
1-5	Rotating Direction 旋转方向	(CW) 顺时针
1-6	Lead Wire 引线	UL1007 30# L=48±5mm (-)GRAY (+)WHITE
1-7	Connector 连接器	2.0-2P
1-8	Operating Position 固定方位	Output shaft for all direction 轴伸可任意方向摆放
1-9	Grounding Polarity 接地极性	No Grounding 无接地点
1-10	Operating Voltage 电压使用范围	(1.5~4.0) VDC
1-11	Operating Load 负载范围	(0) ~ (5) g.cm
1-12	Operating Temperature 工作温度范围	(-5)~ (+50) °C
1-13	Storage Temperature 存放温度范围	(-15) ~ (+85) °C

## 2、CHARACTERISTICS 特性参数

The test is made in principle of a temperature between 10 °C and 30 °C, and at relative humidity between 30% and 95%, if the test result is questionable it shall be judged from the test made at 20C±2 °C、65%±5% RH.

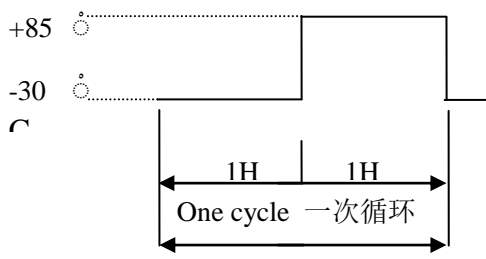
测试环境温度(10 °C~30 °C)、相对湿度 30%~95%；如对测试结果有疑问,可在 20C±2 °C、65%±5%条件下再做判定。

	ITEMS 项目	TEST CONDITIONS 测试条件	SPECIFICATION 规格
2-1	No load current 空载电流	Rated voltage and no load 额定电压、无负载	≤ (15) mA
2-2	No load speed 空载转速	Rated voltage and no load 额定电压、无负载	(2150±10%) rpm
2-3	Rated load current 额定电流	Rated voltage and rated load 额定电压、额定负载	≤ (25) mA
2-4	Rated load speed 额定转速	Rated voltage and rated load 额定电压、额定负载	(2000±10%) rpm
2-5	No load starting voltage 空载起动力矩	No load 无负载	≤ (1.2) V
2-6	Starting Torque 起动力矩	Rated voltage 额定电压	≥ (7.0) g.cm
2-7	Insulation Resistance 绝缘电阻	Measured between motor terminal and motor metal housing with 100VDC magger 使用 DC100V 兆欧表, 测量电机接线端子与机壳之间的电阻	≥ (10) MΩ
2-8	Max air flow 最大风量	Rated voltage and rated load 额定电压、额定负载	4.05 CFM
2-9	Air Pressure 静压	Rated voltage and rated load 额定电压、额定负载	1.15 mm-H <sub>2</sub> O
2-10	Noise 噪音	Rated voltage & no load operation. Background noise : ≤18dB 额定电压、空载, 如图测量, 环境噪音: ≤18dB 	≤23dB
2-11	Current waveform 电流波形	Rated voltage and no load 额定电压下, 无负载	无死点 Free from off point
2-12	Maximum axial load 最大轴向受力	Direction of static load and support of load as shown below 支撑点及受力如下图所示: 	F≤10kg

### 3、RELIABILITY SPECIAL TEST 可靠性、特殊试验

3-1	LIFE TEST 寿命测试	<p>Motor test conditions are listed as below. Motor life is judged end when either of the criteria described met.</p> <p>如果满足下列项目中任何一项时，认为电机的寿命结束：</p> <p>1、Rated load speed varies more than <math>\pm 20\%</math> against the initial figure 电机的负载转速、相对初始值超过<math>\pm 20\%</math>；</p> <p>2、Rated load current varies more than <math>+30\%</math>. against the initial figure 电机 的负载电流、相对初始值超过<math>+30\%</math>；</p> <p>3、No load starting voltage could be less 1.5V 空载起动电压<math>\geq (1.5) V</math>；</p> <p>4、Motor gets apparently recognized to be unusable. 确认电机不可使用。</p> <p>5、Intermittent running under normal temperature, normal humidity , rated voltage and rated load the life time : <math>&gt; 1,000</math> Hours ↓ 断续工作寿命：在正常温度和湿度，额定电压、额定负载下，间隔工作寿命：<math>&gt; 2,000</math> Hours。</p>	
3-2	Vibration test 耐振动试验	<p>Motor subjected to the sine wave of 2mm amplitude and 100/10Hz vibration in the X, Y and Z directions for 30 minutes each. 在 XYZ 方向承受振 2mm，振幅频率 100/10Hz 的正弦波振动各 30 分钟。</p>	<p>●Rated load speed varies within <math>&lt; 30\%</math> from the initial 额定负载转速变化：<math>&lt; 30\%</math>。</p>

	ITEMS 项目	TEST CONDITIONS 测试条件	SPECIFICATION 规格
3-3	Shock test 跌落试验	<p>Smallest packing dropped on wooden block of 10mm thickness from 30cm height, once for each 6 faces of the packing 把马达放进小包装中，在高度 30cm 处自然跌落在 10mm 厚的木板上。</p>	<p>●Rated load current varies within <math>&lt; 30\%</math> from the initial 额定负载电流变化：<math>&lt; 30\%</math>。</p>

3-4	<p>Storage test 环境放置试验</p>	<p>A motor shall be made storage test as below measurement shall be made after the motor is returned in 20 °C for 24h. Each storage test is independent</p> <p>按下表各温度、湿度环境下放置试验，再在常温、常湿中放置 24hrs 后测定参数。</p> <table border="1" data-bbox="470 403 1037 683"> <thead> <tr> <th></th> <th>Temperature 温度</th> <th>Humidity 湿度</th> <th>Time 时间</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+85 °C</td> <td>30%</td> <td>96h</td> </tr> <tr> <td>2</td> <td>+40 °C</td> <td>85%</td> <td>96h</td> </tr> <tr> <td>3</td> <td>-15 °C</td> <td></td> <td>96h</td> </tr> </tbody> </table>		Temperature 温度	Humidity 湿度	Time 时间	1	+85 °C	30%	96h	2	+40 °C	85%	96h	3	-15 °C		96h	<p>●Rated load speed varies within &lt; 30% from the initial 额定负载转速相对初始值变化：&lt;30%。</p> <p>●Rated load current varies within &lt; 30% from the initial 额定负载电流相对初始值变化：&lt;30%。</p>
	Temperature 温度	Humidity 湿度	Time 时间																
1	+85 °C	30%	96h																
2	+40 °C	85%	96h																
3	-15 °C		96h																
3-5	<p>Heat cycle test 热冲击试验</p>	<p>A motor shall be made heat shock test as below for 20 cycles. Measurement shall be made after the motor is returned in 20 °C for 24h.</p> <p>按以下热冲击模式，做 20 次循环，再在常温、常湿下放置 24h 后测试。</p> 																	

#### 4、Drawing 图面尺寸

