

# SPECIFICATION FOR APPROVAL

CUSTOMER: \_\_\_\_\_

MODEL: EF12025ML2BP7T0

Series: EC AXIAL FAN

P/N: \_\_\_\_\_

Rev: 01

Date: Aug. 13.2020



|               |             |
|---------------|-------------|
| CUSTOMER      |             |
| APPROVED/DATE |             |
| Rev           | Description |
|               |             |
|               |             |

**Notice:**

This offer is made according to your current inquiry. Unless otherwise revised, this specification will be final for all future production of orders from your company.

Kindly study in detail and send back to us the specification sheets with your confirmation signature in order to make an arrangement for production.

|                |              |               |
|----------------|--------------|---------------|
| Approved by    | Checked by   | Authorized by |
| Xiaochang Zhou | Fuqiang Zeng | Xiaoling Tang |

# PRODUCT SAFETY

1. **ULTRAR** will not guarantee this product if it is used in conditions other than the parameters outlined in this specifications.
2. Please contact **ULTRAR** to confirm any customer requirements not specified in the specification.
3. Please handle fans carefully. Damage may result from pressure to the impeller, carrying by the lead wires, or dropping fans on a hard surface.
4. The introduction of power, dust water insects or other erosion elements into the hub will result in safety problems or product failure, except in products designed for special environments.
5. Items 1-4, mentioned above, are generally pertinent to our products, and should be a first point of reference.
6. It is very important to establish the correct polarity before connecting the fan to the power source.
7. Avoid operating **ULTRAR** products in environments where poisonous or corrosive elements are present ( organic, silicon, cyanogens , formal in phenol, H<sub>2</sub>S, SO<sub>2</sub>,NO<sub>2</sub>,Cl<sub>2</sub>,etc)
8. Please ensure that fans are stored according to the storage temperature specified. Do not store in a high humidity environment. If fans are stored for more than 6 months, SIYI recommends testing of fans before using.
9. Not all series fans are provided with the lock rotor protection feature. Damage or failure will result from operating fans without this feature, if the impeller for the fan is in any way hindered or impaired.
10. Install fans carefully. Incorrect mounting or installation may result in excessive resonance, vibration and subsequent noise.
11. Safety is a top priority. Please utilize guard accessories to prevent injury to personnel.

12. Unless otherwise noted, all tests are conducted at 25°C ambient temperature, and 65% relative humidity.
13. Any change to the parameters specified in this specification will be determined by mutual agreement between both parties. Parameters not specified will be identical to the final sample approved by your company.

## 1.0: 一般规格 (General Specification)

| 项目 Item |  | 规格/条件 Specification/Condition               |  |
|---------|--|---|--|
| 1       | 型号 Model No.                           | EF12025ML2BP7T0                             |  |
| 2       | 外型尺寸 Outline Dimension                 | 120*120*25mm                                |  |
| 3       | 电压范围 Voltage Range                     | AC100 ~ 240V                                |  |
| 4       | 额定电压 Rated Voltage                     | AC110/230V                                  |  |
| 5       | 频率 Frequency                           | 60/50 Hz                                    |  |
| 6       | 额定电流 Rated current                     | 0.07A/0.03A±10%                             | a. 额定电压 Rated Voltage<br>b. 25°C 65% RH<br>c. After testing for 5 minutes  |
| 7       | 消耗功率 Power consumption                 | 3W/5W                                       |  |
| 8       | 转速 Speed                               | 2000/1800±10%RPM                            |  |
| 9       | 风量 Airflow AT ZERO STATIC PRESSURE     | 68.6CFM±10%                                 | a. 额定电压 Rated Voltage<br>b. AMCA 标准 Standard<br>c. 额定电流 Rated current  |
|         | 静压 Air Static Pressure AT ZERO AIRFLOW | 2.1mmH2O                                    |  |
| 10      | 噪音标准 Noise Level                       | 28dB-A                                      | a. 额定电压 Rated Voltage<br>b. 18dB无响室 18dB Non-Echo Chamber<br>c. 标准 Standard: CNS 8753 / ISO 3744<br>d. Test Condition :ISO 7779<br>e. 距离 Distance: 1.0 M |
| 11      | 期望寿命 Life expectancy                   | 30000 hrs at temp25°C<br>Humidity5% ~ 95%   | MTTF Mean Time To Failure<br>Conf. Level 90%   |
| 12      | 扇叶数 No.of.Blade                        | 7 叶   |  |
| 13      | 极数 No.of.Pole                          | 罩极(Shaded Pole)                             |  |
| 14      | 运转方向 Rotating Direction                | 逆时针/运转方向是从扇叶面看 Anticlockwise Air Discharged |  |
| 15      | 锁住保护 Lock Protection                   | <input type="checkbox"/> 无 NO               |  |

## 2.0: 电气规格 (Electrical Specification)

| 项目 (Item) |                              | 规格 (Specification/ Condition)  |
|-----------|------------------------------|--|
| 01        | 绝缘阻抗 (Insulation Resistance) | 常态下绕组对机座及绕组间的绝缘阻抗> 50MS,在热态下》<br>5MQ.(Under Normal Condition,Insulation Resistance<br>Between Coil And Base Or Between Coil And<br>Coil> 50M ;Under Thermal Condition,Insulation<br>Resistance Between Them>5M&) |

|    |                             |   |
|----|-----------------------------|---|
| 02 | 绝缘耐压 (Dielectric Strength ) | 施加于绕组和机壳及绕组相互间:》1500VAC 0.05mA 50Hz 时<br>绝缘耐压(Dielectric<br>间:>1min 不烧毁.(Exert On Coil And Coil Or Coil And<br>Casing:<br>>1500VAC0.05Ma 50Hz Time1min Can't Burn Down) |
|----|-----------------------------|---|

### 3.0: 主要材料/零件规格 (Main Materials/parts Specification)

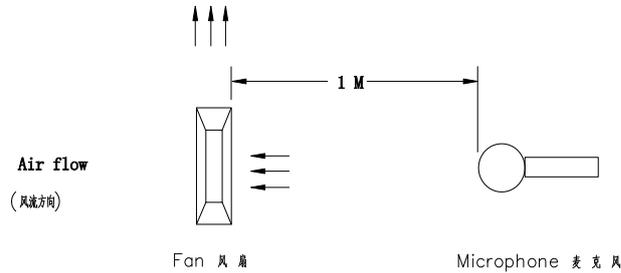
| 材料/零件<br>Materials/parts |                                      | 规格<br>Specification              |
|--------------------------|--------------------------------------|----------------------------------|
| 1                        | 金属材料/ 外框<br>Metal Material/ Frame    | PBT+30%GF BláCk                  |
| 2                        | 塑胶材料/扇叶<br>Plastic Material/Impeller | PBT+30%GF BláCk                  |
| 3                        | 轴承<br>Bearing Type                   | 滚珠轴承<br>Ball Bearing             |
| 4                        | 定子与转子<br>Stator & Rotor              | 矽钢<br>Silicon steel              |
| 5                        | 漆包线<br>Magnet Wires                  | 漆包圆铜线<br>Copper 1UEW [CLASS B]   |
| 6                        | 绝缘套<br>Bobbin                        | 尼龙 66<br>PA-66 UL 94 V-0         |
| 7                        | 引线<br>Lead Wire                      | UL 1007 22 AWG ,2 Wires 385±10mm |
| 8                        | 端子 Connector                         | 63080 connector                  |
| 9                        | 产品净重 Weight                          | 120 grams 克                      |

### 4.0: 环境 (Environmental)

| 项目 (Item)                       | 规格 (Specification)   |
|---------------------------------|--|
| 工作环境 Operating Temperature      | -10°C~ 70°C (35%-85% RH)   |
| 储存环境 Storage Temperature        | -10°C~ 70°C (35%-85% RH)   |
| 绝缘阶段 Insulation Shock           | ULB 级(UL:ClassB)   |
| 包装耐振动实验 Packing Vibration Test  | 包装后,XYZ 三方向施 1.1G 加速度,振动 30 分钟后,无异状<br>(Packing Condition:X,Y,Z 3directions,1.1G load,vibration test for 30 min) |
| 包装耐冲实验 Packing Shock Proof Test | 捆包状态下,高 30cm 自然落下,无异状<br>natural drop from 60cm high packing   |

## 5.0: 在无响室额定电压下之噪音测试

(Noise is measured at rated voltage in anechoic)



(在背景噪音不超过 18dB (A) 的无响室内, 将待测风扇通入额定的工作电压, 悬掉入空中, 将麦克风放于风扇同一平面且离待测风扇进风口 1 米处进行测试其 B&K 值)

Noise is measured rated voltage in free air in anechoic chamber with B&K sound level meter with microphone at a distance of One meter from the fan intake. The background noise is 18Db(A) max.

## 6.0: 商标 (Label Marking)



## 7.0: 外观尺寸图 (Outline Dimension)

