

产品承认书

SPECIFICATION FOR APPROVAL

客 户 (Customer):

规 格 (Description): DC Brushless Fan

型 号 (Model No.): YDM2507C12F

样品编号 (Sample No.): 20201215027

送样日期 (Sample Date):

<p>客户承认栏</p> <p>CUSTOMER APPROVAL</p>			
	<p>核 准</p> <p>APPROVED</p>	<p>审 核</p> <p>CHECKED</p>	<p>制 表</p> <p>DRAWN</p>
<p>感谢选择 YCCFAN 产品, 若样品符合贵司的要求, 劳烦将此承认书签章回传到敝司。</p> <p>Thanks for choosing YCCFAN products. Please sign and return this approval sheet to us after confirming the data.</p>			<p>刘仕花</p>

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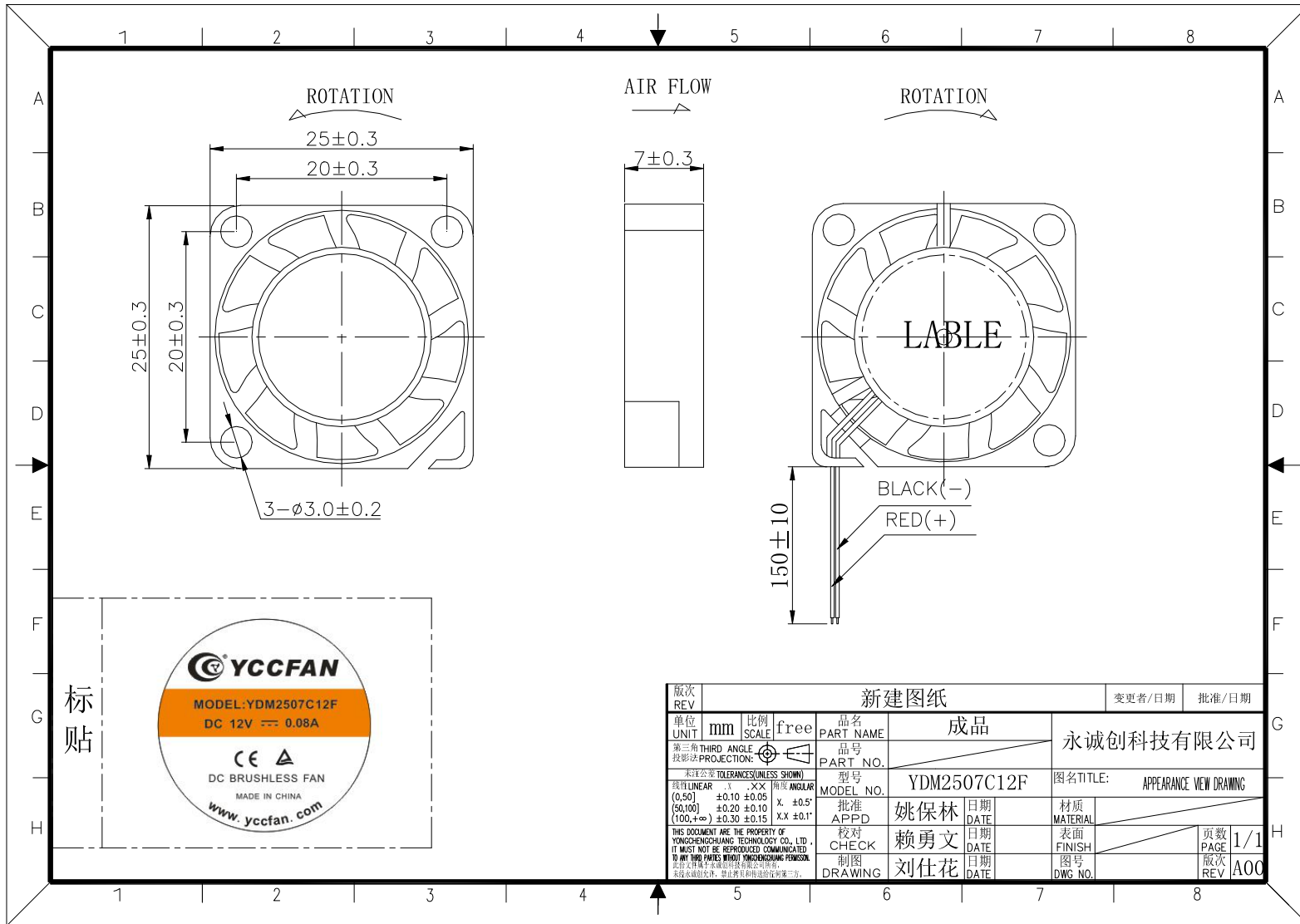
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历史卡 HISTORY		
版本 (REV.)	描述 (DESCRIPTION)	日期 (DATE)
A00	第一次发行	2020.12.25

规格说明书 SPECIFICATION		(AT Ta= 25 Degree.)	
项目/ITEMS	单位/UNIT	参数/PARAMETERS	备注/NOTES
尺寸/Dimension	mm	25*25*07	Length* Width *Thickness
外框/Fan Frame	----	BLACK PBT (UL94V-0)	Glass Fiber Reinforced
扇叶/Fan Impeller	----	BLACK PBT (UL94V-0)	9 Blades
轴承种类/Bearing System	<input type="checkbox"/> S:Sleeve Bearing <input type="checkbox"/> S:Hypro Bearing <input checked="" type="checkbox"/> C:CycleSeal Bearing <input type="checkbox"/> B:Dual Ball Bearing		
额定电压/Rated Voltage	VDC	12.0	N/A
工作电压范围 Operating Voltage Range	VDC	10.8-13.2	N/A
起动电压/Start-up Voltage	VDC	7.0	N/A
额定电流/Rated Current	Amp	0.06(MAX:0.09)	At 25°C/Relative Humidity 65% At rated Voltage,Measured after 3Mins.
标签电流/Label Current	Amp	0.08	N/A
额定功率/Rated Power	Watt	0.72(MAX:1.08)	At 25°C/Relative Humidity 65% At rated Voltage,Measured after 3Mins
额定转速/Rated Speed	RPM	10000±20%	At 25°C/Relative Humidity 65% At rated Voltage,Measured after 3Mins
风量/Air Flow	CFM	2.20 (MIN:1.74)	Maximum In Free Air,Refer to 4.2.
风压/Air Pressure	mmAq	3.26 (MIN:2.01)	Maximum When Air Flow = 0
噪音/Noise Level	dBA	24.1(MAX:28.1)	At Rated Speed,Refer to 4.3.
马达保护/Motor Protection	Polarity Protection	Yes	Refer to 8.1.
锁机保护/Locked Motor Protection	Auto Restart	No	Refer to 8.2.
缓启动/Soft Start	----	No	N/A
速度感应/FG Sensor	Tachometer Sensor	No	Refer to 2.1.
锁机报警/RD Alarm	Locked Motor Alarm	No	Refer to 2.1.
调速控制/PWM Control	----	No	Refer to 2.2.
防水等级/Waterproof Class	<input type="checkbox"/> IP44以下	Motor or PCBa Coating by Insulating Paint	
	<input type="checkbox"/> IP55	Motor NT Vacuum Coating or PCBa Coating by Waterproof Glue	
	<input type="checkbox"/> IP56以上	Motor Coating by Epoxy Waterproof Glue or Injection by Mould	
环保要求/Conform to RoHS	----	Yes	Refer to 6.
安规规格/Safety Approval	----	<input type="checkbox"/> UL <input type="checkbox"/> CUL <input checked="" type="checkbox"/> CE <input checked="" type="checkbox"/> TUV	
导线/Lead Wire	UL 1061/26AWGx150mm	<input checked="" type="checkbox"/> Red(+) <input checked="" type="checkbox"/> Black(-) <input type="checkbox"/> Yellow(FG) <input type="checkbox"/> White(RD) <input type="checkbox"/> Blue(PWM)	
端子/Connector	----	No	----
套管/Tube	----	No	----
预估寿命/Life Expectancy	小时/Hours	40000	Refer to 7.
净重/Net Weight	克/Gram	5.1	N/A
装箱/Packing	件/箱/Pieces/Carton	1400	N/A



版次 REV	新建图纸			变更者/日期	批准/日期
单位 UNIT	mm	比例 SCALE	free	品名 PART NAME	成品
第三角 投影法 THIRD ANGLE PROJECTION		品号 PART NO.	永诚创科技有限公司		
未注公差 TOLERANCES (UNLESS SHOWN)	线性 LINEAR (0.50) ±0.10 ±0.05 (50-100) ±0.20 ±0.10 (100,+∞) ±0.30 ±0.15	角度 ANGULAR XX ±0.5° XX ±0.1°	型号 MODEL NO.	图名 TITLE:	APPEARANCE VIEW DRAWING
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	校对 CHECK	赖勇文	日期 DATE	表面 FINISH	
	制图 DRAWING	刘仕花	日期 DATE	图号 DWG. NO.	

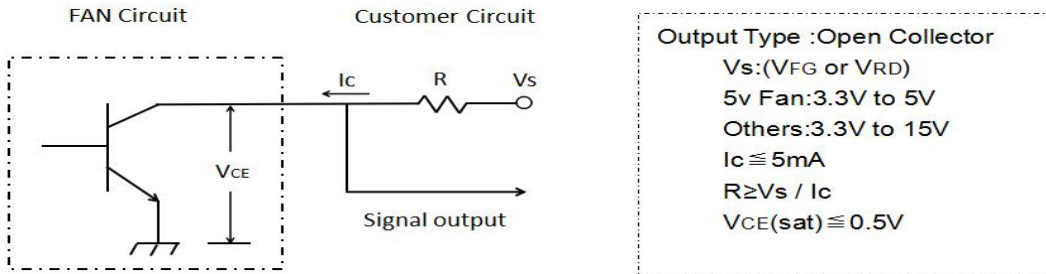
1. 一般规格 General Specification

一般规格参见第 3 页 Refer to page 3

2. 功能介绍 Function Instruction

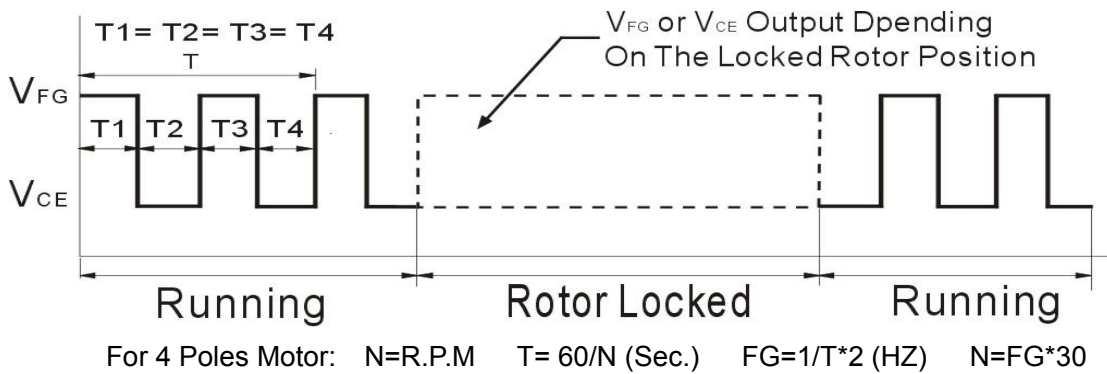
2.1. 信号输出 Signal Output

2.1.1. 接线说明 (FG/RD) Connection Instruction(FG/RD)

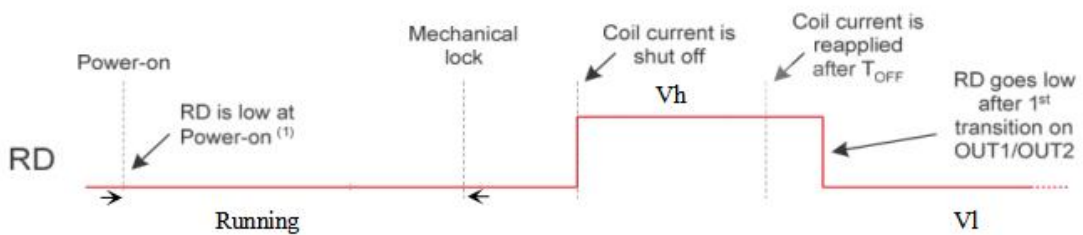


2.1.2. 输出波形 Output Waveform

2.1.2.1 方形信号 Tachometer Sensor(FG)

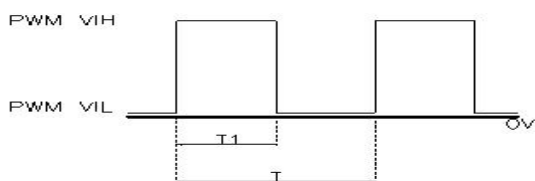


2.1.2.2. 锁机报警 Locked Motor Alarm (RD)



2.2. 速度控制 Speed Control(PWM)

PWM INPUT SIGNAL SEPCIFICATION



PWM DUTY CYCLE(%)= $\frac{T1}{T} \times 100\%$

PWM FREQUENCY RANGE 20K~30KHZ

PWM VIH =2.8V TO 5.5V

PWM VIL =0V TO 0.6V

3. 电气特性 Electrical characteristics

3.1. 绝缘阻抗 Insulation resistance

框与导线正极端子之间加直流 500VDC，最小 10MΩ；
Min 10M ohm between frame and positive terminal at 500VDC.

3.2. 绝缘耐压 Dielectric strength

框与导线正极端子之间加交流 500VAC/60Hz，1 分钟测定漏电流最大 5 mA；
Max.5 mA between frame and positive terminal at 500VAC/60Hz for 1 minute.

3.3. 绝缘类型 Insulated Type

UL: Class A (105°C)

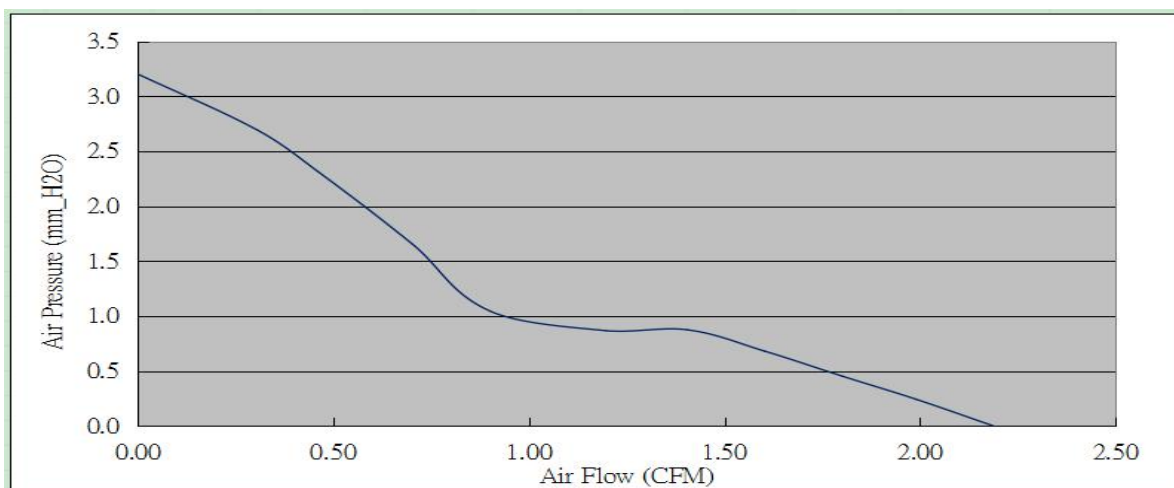
4. 机械特性 Mechanical Characteristics

4.1. 旋转方向 Rotation

参见第 4 页图纸所示 Refer to Page 4 Rotation

4.2. 风量风压曲线 Performance Curve

测试条件 Test Conditions: (1).Rated Voltage;(2).Room Temperature,65%Humidity;



4.3 噪音 Noise Measure

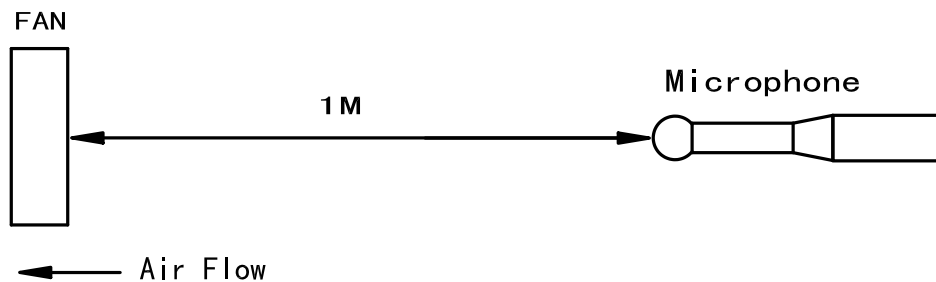
4.3.1. 参照标准 ISO3745/GB4214-84，背景噪音 20±2dBa，室内环境下测量；

According to Standard ISO3745/GB4214-84, Back ground noise 20±2dBa with room condition;

4.3.2. 测试方法 Measure Condition:

风扇悬吊在无响室内，在额定电压下，麦克风距风扇进风口 1 米距离测试；

Fan is hanged in anechoic chamber, measured at rated voltage, measure microphone at a distance of one meter from the fan air intake;



5. 环境适应 Environmental

5.1.运转温度 Operating Temperature	-----	-10 ~ +70 °C
5.2.储存温度 Storage Temperature	-----	-40 ~ +75 °C
5.3.运转湿度 Operating Humidity	-----	35% ~ 85%RH
5.4.储存湿度 Storage Humidity	-----	35% ~ 85%RH

6. 环保要求 RoHS Compliance

产品有害物质的含量符合欧盟指令 2014/35/EU 的要求;
Product is in compliance with RoHS 2014/35/EU requirement;

7. 预期寿命 Life Expectancy

7.1.Conditions:At Confidence Level 90%;Rated Voltage;65% Humidity Environment

7.2. S: Sleeve Bearing System:30000 Hours At 25°C Environment

S: Hypro Bearing System:30000 Hours At 40°C Environment

C: CycleSeal Bearing System:40000 Hours At 40°C Environment

B: Dual Ball Bearing System:50000 Hours At 40°C Environment

8. 马达保护 Motor Protection

8.1.极性保护 Polarity Protection

如果产品的正负极电源线接反，产品能够承受 10 分钟不被损坏；

Be capable of withstanding 10 minutes will not cause damage if reverse connection for positive and negative lead wires;

8.2.马达锁住保护 Locked Rotor Protection

在正常操作电压和温度范围下，当转子被锁住后，电路电流会被关闭或维持很小范围保护马达在 72 小时内不会损坏；

The current will be shut down or remain a little range to protect motor from damaged in 72 hours when locking rotor at operation voltage and temperature range;

9 安全批准 Safety Approvals

参见第三页 Refer to page 3