

深圳市三力基业电机有限公司

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承 认 书

SPECIFICATION

产品名称 Product Name	三相直流马达 Three phase DC BRUSHLESS MOTOR
产品规格 Product Specifications	SF8462BH / 24V 1.2A / 750RPM ± 10% 正转 (带负载 Φ245mmX70mm 风轮转速, PWM 旋钮调速)
线材规格 Wire Specifications	20AWG UL1007 禁止反插
安规认可 Safety Cert	CE (Shenzhen Tian Hai Test Technology Co,.Ltd)ROHS
推荐安装方法 Recommended Installation Method	

客户名称 Customer Name: _____

客户编号 Models Number: _____

承认书编号 Number: _____ P846216111852

送样日期 Date: _____ 2016-11-23

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◆ If you approved, please kindly sign back one copy to us to archive. Think you!

本公司确认 Product confirm and sign

经办 Made by	审核 Checked by	核准 Approved by	本公司印章 Our seal	

客户确认 Customer confirm and sign

经办 Made by	审核 Checked by	核准 Approved by	客户印章 Customer seal	

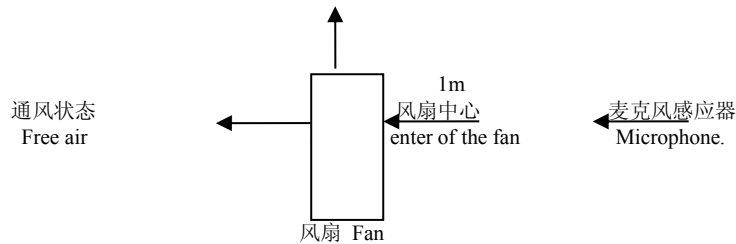
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规格说明书
Specifications

1. 机构 Mechanical:	
1-1. 外观尺寸 External dimension	参考附图 Refer to drawing (图3)
1-2. 外观 Appearance	目视无披峰、损伤、变形、生锈、油污等不良现象 There shall be no excessive scratches, dents or deformation, when inspected by naked eyes.
1-3. 相数.极数.Phases poles	三相十二极.Three phases twelve poles
2. 电气特性 Electrical characteristics	
2-1. 额定电压 Rated voltage	24V
2-2. 额定电流 Rated current	1.2A (MAX1.3A) (负载)
2-3. 额定输入功率 Rated input power	2.88W (MAX31.2W) (负载)
3. 效率 Efficiency	
3-1. 额定转数 Speed	750RPM±10%
	产品在 25℃ & 65%RH 环境下放置 2 小时后再对风机进行竖放, 标记及加载额定电压运转 5 分钟后测试转速并记录。 【Products at 25 degrees C 65%RH environment in place 2 hours after the wind turbine on the side, labeled and loaded rated voltage running 5 minutes after the test speed and record.】
3-2. 最大风量 Maximum air flow	≤252.41CFM 428.743626m ³ /h
3-3. 最大静压 Maximum static air pressure	≤11.8801mm-H2O
3-4. 死点检测 Dead point test	N/A
4. 特性规格 Characteristics	
4-1. 运转方向 Directing of rotation	参考附图 Refer to drawing。(图3)
4-2. 工作电压 Operating voltage	12V~26.4V
4-3. 起动电压 Starting voltage	≤12V (ON/OFF) (起动电压是指突然通电后能够使风扇起动之最低电压)
4-4. 峰值电流 Peak current	N/A
4-5. 锁定电流 Locked current	//
4-6. 极性保护功能 Polarity protection	不带极性保护功能 (Without Polarity protection)
4-7. 锁定保护功能 Lock rotor protection	带锁定保护功能(With Lock rotor protection function)
4-8. 占空比 Duty cycle	带 PWM 功能(Without PWM protection) 占空比为 0% 转速: 0RPM 占空比为: 100% 转速: 750RPM
4-9. 转速侦测功能 Fan speed detection protection	不带 FG 功能 (without FG signal)
4-10. 停转报警功能 Fan stop alarm signal	不带 RD 功能 (Without RD signal)
4-11. 操作温度 Operating temperature	-10℃~+60℃
4-12. 储存温度 Storage temperature	-10℃~+70℃
4-13. 环境湿度 Environment humidity	10%(RH) 25℃ for 24h & 95%(RH) 25℃ for 24h. (防潮)
4-14. 防潮等级 Moisture level	IP 4 4
4-15. 电机内部温升 Inherent temperature	内部温升≤80℃
4-16. 绝缘耐压强度 Dielectric strength	必须能抵抗在 本体与两线间加 500V 交流电压 1 分钟 1mA。 Withstand 500 VAC 1 minute 1mA between housing and both lead wires.
4-17-1. 预期寿命: 指在额定电压及无尘环境 25℃和湿度 65%±10%RH 下, 老化试验连续运转至 50000H 不停转。 (1). 寿命老化测试中因长时间存在于有灰尘环境中以导致灰尘与风机内部的合铜/培林相接触摩擦导致风机产生异音。(时间(H):X≥720) (2). 寿命老化测试中因长时间存在于有灰尘环境中以导致灰尘堆积在风机扇叶上从而导致风扇抖动现象产生。(时间(H):X≥720) (3). 寿命老化测试中因长时间运转风机内部油脂润滑会有所变化导致转速上产生偏离。偏离范围在原来转速的±15%。 (4). 寿命老化测试中因长时间运转风机内部油脂润滑会有所泄漏导致风机产生轻微异音现象。(时间(H):X≥720)	
4-18. 端子抗拉强度 Tensile strength of connector	端子以 2 公斤的拉力拉扯 15 秒不会脱落 Connector will not be any broken at 2kg for 15seconds per piece.
4-19. 噪音分贝 Acoustic sound level	环境 32≤46dB-A (Max)

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4-16-1. 噪音测试说明 Acoustic sound level test descriptions 悬吊 Suspension



以额定电压在噪音实验室中测试，将麦克风置于风扇进风口 1 米处测得。（背景噪音 18 分贝以内）
At rated voltage in sound laboratory noise:18dB, microphone at a distance of one meter from the fan intake.

5. 特性定义 Characteristics

5-1. 额定电流 & 额定转速 & 额定操作功率，须在额定电压下；风机连续转 5 分钟达到规格下限，10 分钟达到正常值

Rated current, rated speed, and rated input power shall reach bottom line of specification after 5 minutes continuous rotation at rated voltage and reach standard specification after 10 minutes continuous voltage.

5-2. 起动电压是指突然通电后能够使风扇起动之最低电压

Starting voltage is the least voltage that enables to start the fan by sudden power on

5-3. 轴垂直度 Perpendicularity of shaft	安装平面为基准测试 90±0.5° Measuring based on the mounting plate.
5-4. 轴长同心度 Shaft deflection	从安装平面3mm 测试 <20µm or less At the point 3.0mm from the mounting plate.
6. 安全规格 Safety	CE: <input checked="" type="checkbox"/> TUV: <input checked="" type="checkbox"/> ROHS: <input checked="" type="checkbox"/>

7. 原材料 Material

项次 Item	主要元件 Major components	材质或型式 Material & Specification	等级 Grade	备注 Remark
7-1	绝缘架 Bobbin	PP	HB	不防火
7-2	风轮 Wind wheel	ABS	HB	不防火
7-3	马达壳 Motor blade	SPCD		
7-4	轴心 Shaft	不锈钢 Stainless steel (SUS420J2)		
7-5	轴承 Bearing	双滚珠轴承 Two ball bearing		
7-6	铁氧体 Ferrite	铁锶粉末化合物 Strontium ferrite (BQB14W)		
7-7	矽钢片 Silicon steel strip	(H23) (H-18)		
7-8	漆包线 Enameled copper wires	去膜直径 0.29MM Material & specification 0.29mm	MW-2 UEW	耐热 Heat resistance 120 °C
7-9	印刷电路板 Printed Circuit Board	单层印刷电路板 Wiring printed single layer board	94V-0	FR-4 T:1.0mm

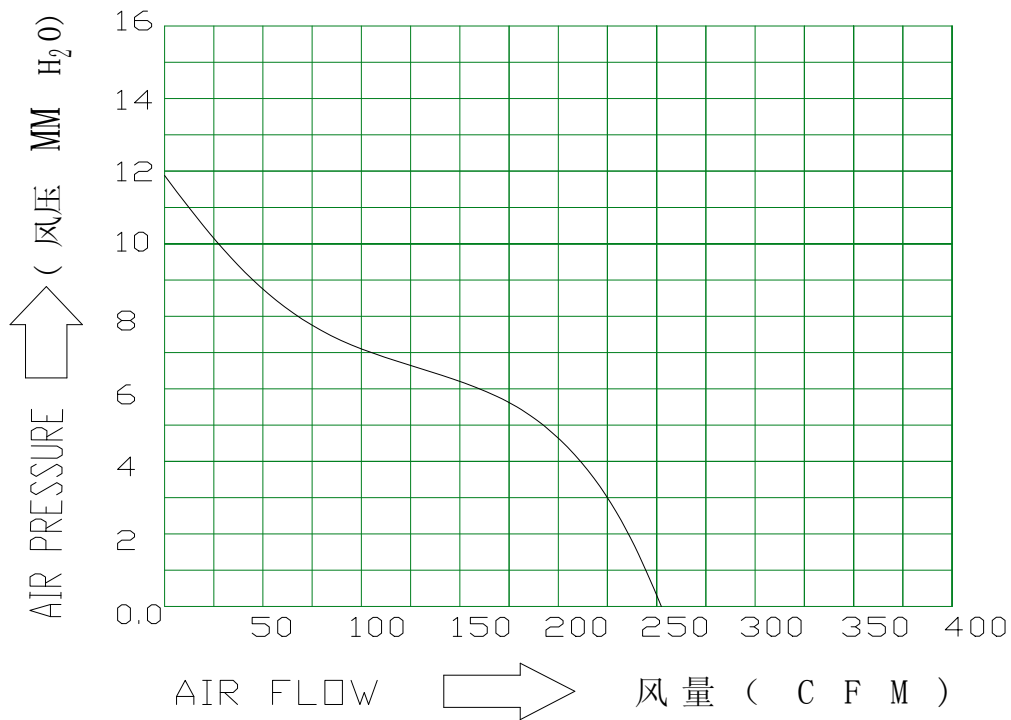
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7-10	电源线 Lead wires	聚乙烯氯化物包铜线 (耐温 80℃) Polyvinyl chloride enameled Copper wirer (AWG#20) (Heat resistance 80 ℃)		红线: 正极 黑线: 负极 Red wire :+polarity Black wire:-polarity
7-11	贴纸 Label	多元脂 Polyester		
7-12	端子接头 Connector housing	2.5P 端子 (2.5P housing)		

8. 出货检验程序 Product inspection procedure

出货标准按照《成品检验规范》文件编号:《OQC-04070601》。进行相应流程测试。

9. 产品风量风压曲线图



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10. 注意事项 (Notes)

- 10-1. 使用时请勿超出本规格所规定之极限，否则我们不保证此产品。
We, Sanly Co; LTD will not guarantee the products if the application of our products are exceeded the Limitation which is specified on the specification.
- 10-2. 倘若要变更此份文件的任何规格，请务必事先提出要求
In case of changes of the specification specified on this document.
- 10-3. 请勿触压着叶片以及电源线缠绕着风扇或用力拉扯电源线，如此轴心与电源线将会被损坏
please do not touch the impeller with the pressure and never bring the fan with lead wire. The bearing and lead wire may be damaged.
- 10-4. 本产品不保证因粉尘、水滴、小虫进入，而影响寿命与不良产生
No guarantee on the products against the safety problem or failure caused by powder dust, drop of water or insect.
- 10-5. 如有任何资料及文件与此份不同，将以此份资料为主要参考
If there is any data or related documentation different from this data sheet. This data sheet is the principle Reference
- 10-6. 请勿在可燃性气体与任何有害环境中使用
Please do not use the fan in the environment of corrosive gas or liquid or any detrimental gas
- 10-7. 请于六个月内使用，否则风扇存放在很高温或很低温及湿度很高的室温中，风扇于六个月后将可能 会有漏电流产生。
Please do not store the fan in the environment of high/low temperature, high humidity or detrimental gas
Please store within six months, every six months, shall be a leakage of electric current to the fan even Though the fan is stored in room temperature.
- 10-8. 当风扇于运转中，请勿企图将风扇锁死超过 5 分钟时间。如此，会因连续停止不转，产生高热而烧毁风扇
While the fan is in operation, please do not lock the fan intentionally for 5 minute of time, since the Continuous stoppage will result in overheat and thus burnt out the fan.
- 10-9. 组装风扇时，请特别注意，因共振或振动产生的噪音
During the installation of the fan, please pay substantial attention to possible notice caused by resonance Vibration and shock.
- 10-10. 当搬运或作业中，风扇如从 60cm 的高度落下，将会对叶片的平衡产生若干影响，特别是滚珠轴承避免掉落。
It is very important to notify that avoid to drop from 60cm height when in any movement or operation, it Will impact the balance of balance of blade. Especially ball bearing structure is avoided to drop down.
- 10-11. 锁外壳之螺丝扭力不得超 4kg/f.
The torque of the screw that locked the frame should not exceed 4kg/f.
- 10-12. 以上参数均在环境温度 25°C 和湿度 65%±10%RH 额定电压下测得。
All reading must in 25°C with 65%±10%RH at rated voltage test.
- 10-13. 产品安装方法请参照我司提供的安装方法，请勿超出本产品所规定之操作，否则我司不负责此产品会对贵司造成的不良影响，谢谢合作。
The method of the product, please refer to our company to provide installation method, do not exceed the prescribed products of this operation, otherwise we are not responsible for the product can cause negative effects, to your company thank you for your cooperation.

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10. 参考图示

