



规格承认书

Specification Recognition

客户代号(Customer code)	A~KH~044
产品型号(Product model)	FD3007S5M
产品名称(Product name)	3007S~5V 含油风扇
产品规格(Product specifications)	30*30*7.4mm
送样数量(Number of samples sent)	
送样日期(Send-out date)	2022~08~30

感谢您给予本公司送样承认的机会,烦请将此表签回本公司便于归档.

Thanks for awarding this opportunity of sample approval ,please return this form to us for filing after authentication.

供应商 (Supplier)		
盖章 (Signatures)		
制作 Made	核准 Approve	日期 Date
张耀师		2022/08/30

客户确认 (Customer Approve)	
盖章 (Signatures)	
承认 Approved	日期 Date

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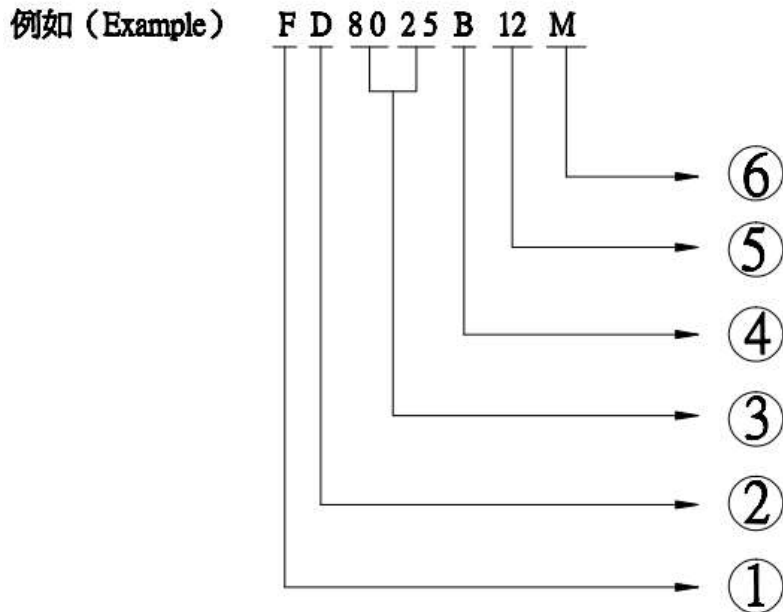
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型号名称(Model Name)



- ① F:风扇(Fan)首字母 "F"
- ② D:电源类型(Powersupplytype)
 - D~直流 Direct Current
 - A~交流 Alternating Current
- ③ 8025:风扇外形尺寸(Fan Overall Dimension):
 - 例如: 8025 即(80x80x25mm)
 - 80~外框长度/宽度(Frame Length/Width)
 - 25~外框厚度(Frame Thickness)
- ④ B:轴承类型(Bearing Type):
 - S~含油(Sleeve Bearing)
 - B~滚珠(Two Ball Bearing)
 - R~液压(Ydraulic Bearing)
- ⑤ 12:额定电压 (Rated Voltage):
 - (5~5V. 12~12V. 24~24V...)
- ⑥ M:速度(Speed):
 - D~超高转速(Super Speed)
 - H~高转速(High Speed)
 - M~中转速(Medium Speed)
 - L~低转速(Low Speed)



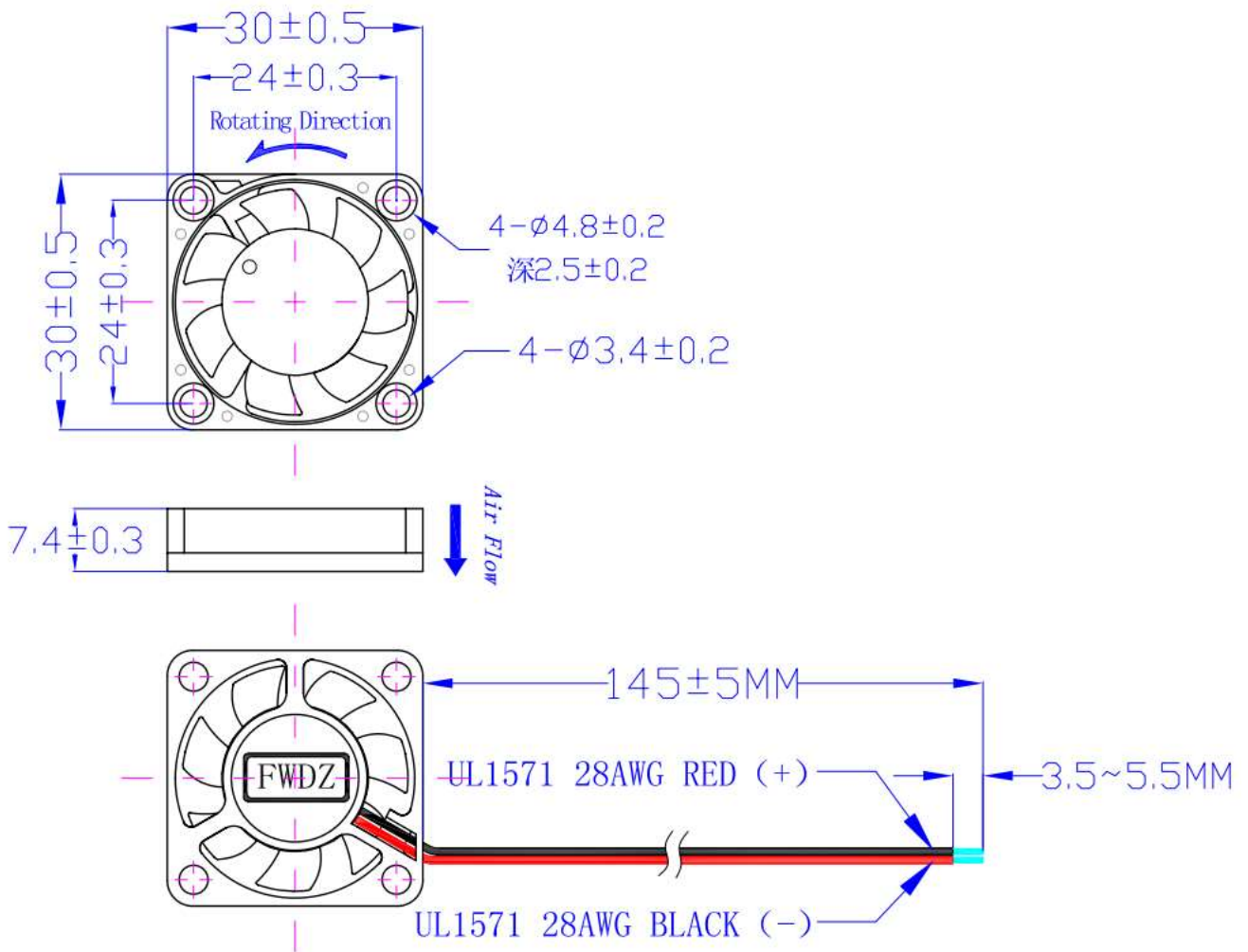
1. 电气特性(Electrical):

项目 (Item)	技术参数 (Specification Condition)	
01.轴承类型 (Bearing Type)	含油(Sleeve Bearing)	
02.额定电压 (Rated Voltage)	DC5V	DC Power Supply
03.操作电压 (Operating Voltage)	DC3.5V~5.5V	测试条件/Test Condition a.Connect DC Power Supply b.额定电压/Rated Voltage c.额定电流/Rated Current d.25°C~Switch Power ON/OFF e.65%RH f.Measured after 5 Mins g.L10 at Conf.Level 90% h.风洞测试仪/P&Q i.无响室/Non-Echo Chamber j.距离/Distance:1.0M
04.启动电压 (Starting Voltage)	DC3.5V ON/OFF	
05.运转电流 (Rated Current)	0.12A±15%	
06.额定功率 (Rated Power)	0.6W±15%	
07.额定转速 (Rated Speed)	9100RPM±15%	
08.风扇重量 (Fan Weight)	6.0G±5%	
09.寿命预估 (Life Expectancy)	20000H/30°C	
10.额定风量 (Rated Airflow)	3.86CFM±10%	
11.额定静压 (Rated Static Pressure)	4.94mm-H ₂ O±10%	
12.噪音分贝 (Accoustic Sound level)	28.6dB-A±10%	
13.运转温度.湿度范围 (Operating Temp. Range)	-10°C~70°C/15%~ 90% RH (Frost Eliminated)	
14.保存温度.湿度范围 (Storage Temp. Range)	-40°C~75°C/15%~ 90% RH (Frost Eliminated)	
15.马达极数 (No.of Pole)	4 极/Four Poles	
16.回转方向 (Rotating Direction)	顺时针(Clockwise)~从标签面看 (From Label side)	
17.过温保护 (Over Temperature Protection)	Yes	
18.自动启动 (Auto Start)	Yes	
19.锁定保护 (Auto Re-start function)	Yes	
20.软启动 (Soft Start)	No	
21.极性保护 (Polarity Protection)	Yes	
22.RD 报警功能 (Rotation Detector Alarm)	No	
23.FG 转速信号 (FG Speed Signal)	No	
24.PWM 脉宽调速 (Pulse Width Modulation)	No	
25.防潮或防水 (Waterproof and Damp Proof)	No	
26.外框 (Frame)	PBT of UL94V-0 (Black)	
27.扇叶 (Fan blade)	PBT of UL94V-0 (Black)	
28.环保要求 (Conform to RoHS)	Yes	

商标(Label Marking):

	额定电压/Rated Voltage	5VDC
	标注电流/Label Current	0.2A
	标签尺寸/Label Size	Ø15.0mm
	商标颜色/Label Color	绿色/Green
	安规/Safety Approval	CE/FCC
	贴纸/Label	多元酯/Polyester

2.产品图形 (外观图) Product Drawing (Outline) :





3.详细说明 (Specifications) :

1.0 范围. (scope) .

此文件说明直流无刷风扇在机械和电气的特性. (this documentation defines mechanical & electrical characteristics of dc brushless fans) .

1.1.0 原料. (material) .

1.1.1 外框. (Frame) :pbt-hb-glass 聚脂 p. b.t (pbt-hb-glass filled polyester p. b.t.

1.1.2 扇叶. (fan blade) :pbt-hb-glass 聚脂 p. b.t (pbt-hb-glass filled polyester p. b.t.

2.0 尺寸与结构. (dimensions & construction) .

所有尺寸,旋转方向和气流按照所附图纸上说明. (all dimensions, direction of rotation and air flow were specified as per drawing attached) .

3.0 特性和说明.(characteristic & definition).

3.1 所有比率特性均按随附数据单上说明.(all rated characteristics were specified as per data sheet enclosed).

3.2 电流:电流在持续旋转 3 分钟后测量. (rated current: rated current shall be measured after 3 minutes of continuous rotation at rated voltage) .

3.3 转速:速率在持续旋转 3 分钟后测量. (rated speed: rated speed shall be measured after 3 minutes of continuous rotation at rated voltage) .

3.4 起动电压:打开开关“on”后,能够起动风扇运作的电压. (start voltage: the voltage which is able to start the fan to operate by suddenly switching “on”) .

3.5 输入功率:输入功率在持续旋转 3 分钟后测量. (input power: input power shall be measured after 3 minutes of continuous rotation at rated voltage) .

3.6 锁定电流:可以锁机的风扇,锁定电流在清新空气中锁机 3 分钟测定. (the fan can be locked, locked rotor current: locked current shall be measured within one minute of rotor locked after 3 minutes of continuous at rated voltage in clean air) .

3.7 空气流量数据及压力数据测定根据“amca 标准”或者 din24163 规则,该数据测定在双压力仓进行,并需测定压力仓各边所承受的压力数据. (air flow & static pressure: the air flow data and static pressures should be determined in accordance with amca standard or din24163 specification in a double chamber testing with intake side measurement) .

3.8 噪音标准:噪音标准测试参照 din45635 标准,测量在隔音室内进行,将麦克风置于风扇一米处. (noise level: the measurement of noise level is carried out with reference to din45635 in an anechoic chamber with the microphone positioned 1 meter from the air intake. testing fan shall be hung in clean air) .

3.9 机械力检测. (mechanical inspection) .

3.10 旋转方向. (rotation direction) .

从扇叶面看风扇,扇叶逆时针方向旋转,按外框一边的箭号指示相同方向. (the blade is count clockwise viewing from the blade. the same direction also indicated by an arrow mark on one side of the housing) .

3.11 保护试验. (protection) .

几个风扇扇叶连在一起固定限制其旋转,如果风扇及电子组件不会损坏,限制旋转的组件被解松则风扇可自动重新启动旋转. (all fans have integrated protection against locked rotor condition so that there will be no damage to winding or any electronic component. restarting is automatic as soon as any constraint component to rotation has been released) .

风扇放置在垂直位置,打开开关“on”或“off”风扇旋转或停止,运转正常则说明风扇是合格品. (as fan placed at dead angle position, and the switch of fan was changed from off to on · restarting was automatic normal as soon as and proved that this fan is good fan) .

3.12 转体锁定保护. (locked rotor protection) .

3.13 小电流或者带 auto start 功能的风扇,在通电旋转状态将风扇扇叶锁定,持续 15 分钟之后,松开被锁定扇叶并断开电源,再重新启动电源,风扇自动重转,证明风扇无异常. (no damage shall be found after 15 minutes continuously at condition of rotation locked, restarting is automatic as soon as constraint to running has been released) .

3.14 大电流或不带 auto start 功能的风扇,不可长时间锁定,否则风扇会过热损坏. (the fan can't be locked or the fan will overheat and be damaged) .

3.15 自由跌落. (free dropshock) .

单体由 600mm 高空跌到 30mm 厚的木板上,风扇 6 个表面中的任何一面和一角均经得起跌落试验,并确认无损伤.(the product drops from the height of 600mm to the wood board of 30mm. any one of the 6 faces and any one of the corners could withstand the pressure, and also no damage will be found.)

3.16 绝缘电阻. (insulation resistance) .

在 500v 直流电条件下,外框与导线正极电阻不少于 10mΩ. (not less than 10m ohm between housing and positive end of lead wire(red) at 500v dc) .

3.17 绝缘强度. (dielectric strength) .

在 5ma 漏电流,500vac 条件下持续 60 秒,风扇外框与导线无异常,证明绝缘良好.(no damage should at 500 vac for 60 sec, measured with 5ma trip current between housing and positive end of lead wire) .

3.18 平均寿命. (life expectancy) .

在指定恒温下持续工作后,经检验,90%能正常运转即可估算其平均使用寿命. (the continuous duty life at given temperature after which,90% of testing units shall still be running) .

4.工作环境 (Environmental) :

4.1 运行温度. (operating temperature) .

-10°C~70°C为正常温度 (-10°C to +70°C at normal humidity) .

4.2 贮存温度. (storage temperature) .

在-40°C ~75°C温度下贮存 500 小时后,经过在室内温度下 24 小时恢复期后,所有功能正常运作. (all function shall be normal after 500 hours storage at -40°C to +75°C at normal humidity with a 24 hour recovery period at room temperature) .

4.3 湿度. (humidity) .

95%rh. 40 + /-2°C per mil-std-202f 标准 103b 湿度检测 96 小时,绝缘电阻和绝缘强度测量数据符合 8.0 说明. (after 96 hours 95%rh 40 + /-2°C per mil-std-202f, method 103b humidity test, the measured data on insulation resistance and dielectric strength shall meet the specification.8.0 remarks) .

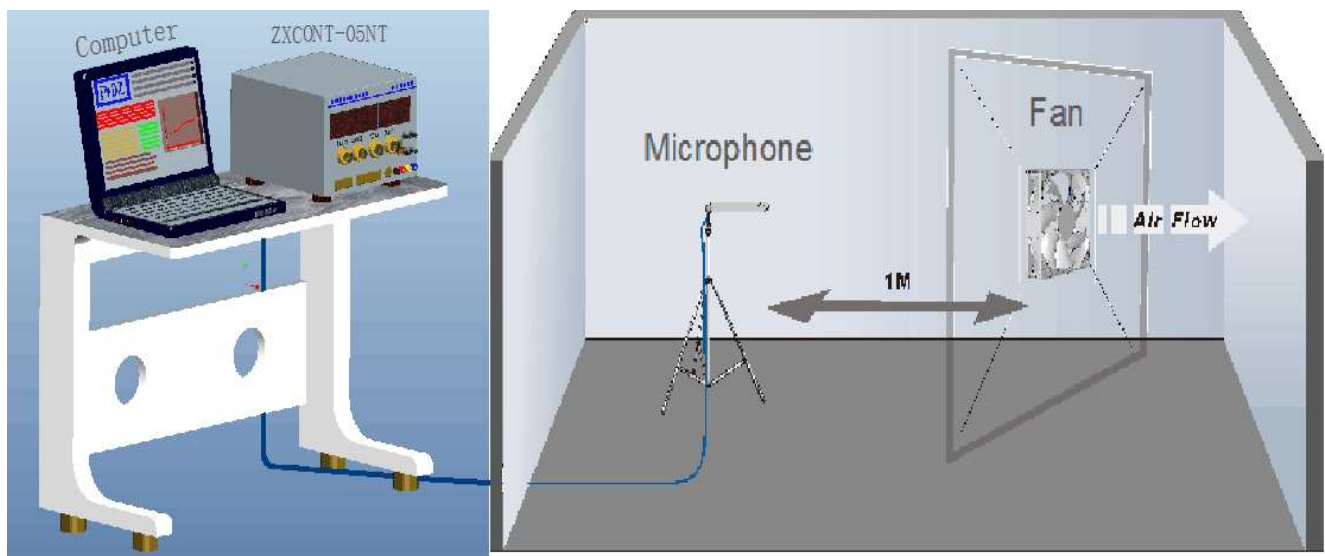
5.说明 (Remarks) :

5.1 材料和结构的改变将另附说明. (material and construction are subject to change without advance. the changes should be within specification) .

5.2 风扇的检验标准为 gb/t2828.1-2003 II 标准. (all fans shall meet the quality inspection under sampling plan gb/t2828.1-2003 II as follow) .

致命的	Critical	0
严重	Major	0.65
轻微	Minor	1

6.噪音测试条件(Noise Measure Condition):



7. 风扇使用注意事项: (Howto Handle Fan Properly)

<p>1. 拿取风扇, 轻取外框两侧, 不可拉扯导线. Hold the fan by frame side, do not hold lead wires to support the fan.</p>	
<p>2. 拿取风扇, 不可碰触或挤压扇叶与外框. No touching or pressing on the impeller hub. avoid crushing the frame side.</p>	
<p>3. 风扇严禁掉落地面, 或敲击外框任何面. Do not drop on the ground. do not pound on the frames side.</p>	
<p>4. 风扇电源需依照规格电压安装使用. Connect leads priperly and apply voltage according to specification.</p>	

7.1 please do not touch the impeller and never carry the fan the lead wires. the bearings and the lead wires may be damaged.

(请不要碰触扇叶和拉扯线材, 以免损坏轴承及导线) .

7.2 for the purpose of mis, please specify the model no. on every order.

(便于订单管理, 请在每一订单上详细注明其型号) .

7.3 please do not use the fan in the environment of corrosive gas or liquid.

(请不要将风扇置于腐蚀的气体和液体内) .

7.4 please do not store the fan in the environment of high humidity. please avoid storage of the fan over 6 months. for long term storage, please connect power to the fan shortly every 6 months even through the fan is stored in room temperature.

(请不要将风扇储存在高湿度的环境中, 请尽量避免将风扇储存期超过 6 个月. 如果要长期储存, 请将其在室温的环境下, 且每隔 6 个月须通上电源让风扇短时间运转) .

7.5 while the fan is in operation, please do not lock the fan intentionally for a long period of time to prevent over heating which may cause permanent damage.

(当风扇在正常运转时, 请不要长时间故意地锁定风扇, 那样会使风扇过热从而可能导致风扇的永久性损坏) .

7.6 我们提供的产品应在规格书指定的条件内使用, 如果您的应用超出规格极限, 我们对此不保证产品质量.

Our products should be used within the specification appointed condition, so we will not guarantee this product quality if your application exceeds the limitations outlined in this specification.

7.7 除非事先通知我们所需参数, 否则出货产品与此份规格书一致, 未在此份规格书中指定的参数与贵公司最终承认的样品相同. Product will be shipped in accordance with this specification unless we has been previously notified of parameters requiring exception, if parameters which are not specified in this specification.



7.8 不适当的安装可能产生刺耳的共振,振动和噪音,安装时,请不要在安装点用力过度或用力不均以免造成振动或噪音.在安装点装置减振器,可有效降低噪音及振动.Improper mounting may cause harsh resonance, vibration and noise. Please mount this fan motor properly without applying excessive or uneven force at the mounting points to avoid vibration and noise. Dampers at the mounting points can reduce noise and vibrations greatly.

7.9 建议安装风扇保护罩,以免对人员造成意外伤害.Please use fan guards to avoid personal accidental injuries.

7.10 除非IP等级中有特殊说明,否则该款风扇只能在正常环境下操作.Unless this fan motor is specified for use in abnormal environments designated by IP rating level, this fan is designed to operate under normal environmental conditions.

7.11 请避免将FWDZ系列产品接触有毒物质 如: (有机物、氟、福尔马林、苯酚等) . 以及在腐蚀性气体环境中使用 如: (硫化氢、二氧化硫、二氧化氮等) .Please avoid operating FWDZ's products in poisonous material(organic, cyanogens, formalin, phenol, etc.)or corrosive gas environment(H₂S, SO₂, NO₂,etc.)

7.12 当风扇在灰尘环境中使用时,请在风扇进风口处安装过滤装置以延长风扇使用寿命.Please use filters to clean the air-intake in very dusty air environments for extended fan life.

7.13 在保证产品性能及寿命不变,或者得以提升的条件下,除非事先约定,我们保留使用同等规格多种来源零件的权利,原材料和结构的变更不做预先通知.Unless prior agreement, We reserve the right to use components with equivalent specifications from multiple sources, so material and construction are subject to change without advance notice.

7.14 请确保风扇在规定的温湿度储存环境中,如果风扇存储6个月以上,我们建议客户测试风扇功能后再使用.Always ensure that fans are stored according to the storage temperatures specified. Do not store in a high humidity environment. If the fans are stored for more than 6 months, we recommend functional testing before using.

7.15 确定在连接和断开连接器之前关掉电源,避免产生电子零件短路.Make sure to turn off the power before connection or disconnecting the connectors. This may cause short of electronic parts.