

产 品 规 格 书

PRODUCT SPECIFICATION

名 称 (NAME): 交流离心风机 AC centrifugal fan

型 号 (MODEL): SC400A2-AG5-00

软 件 型 号 (SOFTWARE): /

配置代码 (CONFIGURATION CODE): 007

版 本 号 (VERSION NUMBER): A/1



编 制 (MAKE): 黄锦强 2018.10.29

校 对 (EDIT): 苏伟吉 2018.10.29

审 核 (CHECKED): 彭莉 2018.10.29

批 准 (APPROVED): 邓星雄 2018.10.29



客户确认 (CUSTOMER APPROVE): _____

日 期 (DATE): _____

泛 仕 达 机 电 股 份 有 限 公 司
FANS-TECH ELECTRIC CO., LTD.

换版记录 Describing of Alternations

版本号/Version	换版原因/ Alternations reason	换版内容/ Alternations reason content	姓名/ Name	日期 /Date
A/0	增加007配置规格书		欧亚锋	2018/9/29
A/1	增加安装方向	增加安装方向	黄锦强	2018/10/10

1.0 概述/ Introduction

本规格书主要描述了产品标准、使用环境、技术要求等.

This specification describes the standard 、operation environment、and technic requirements of the product.

2.0 产品标准和安规要求/Requirement of production standard and safety regulations

2.1 本产品符合的标准 / The product satisfy requirements

2.1.1 GB12350 《小功率电动机的安全要求》

GB12350 《Safety requirements of small power motors》

2.1.2 JB/T10563 《一般用途离心通风机通用技术条件要求》

JB/T10563 《General technical requirement for general centrifugal fan》

2.2 本产品全部材料符合 RoHS

All material accord with RoHS.

3.0 使用环境/ Operating environment requirements

3.1 工作温度和湿度/ Operating temperature and humidity

工作温度范围: $-40^{\circ}\text{C} \sim +65^{\circ}\text{C}$, 工作湿度范围: $0\% \sim 95\%\text{RH}$.

Operating temperatures from -40°C to $+65^{\circ}\text{C}$, Operating humidity from 0% to $95\%\text{RH}$.

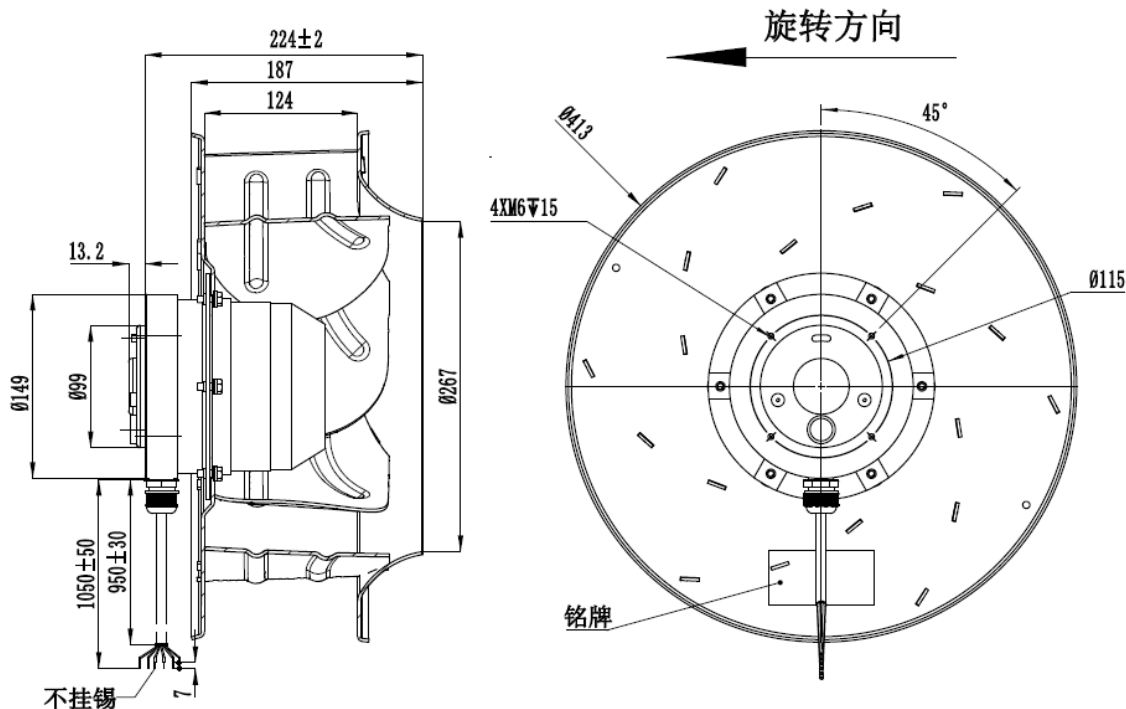
3.2 贮存温度和湿度/Storage temperature range and humidity

贮存温度范围: $-40^{\circ}\text{C} \sim +65^{\circ}\text{C}$, 贮存湿度范围: $0\% \sim 95\%\text{RH}$ 清洁通风良好的库房内, 空气中不得含有腐蚀性气体.

Storage temperatures from -40°C to $+65^{\circ}\text{C}$; In a clean and well-ventilated warehouse Storage humidity from 0% to $95\%\text{RH}$, and no corrosive gas exist.

4.0 机械要求/ Mechanical requirements

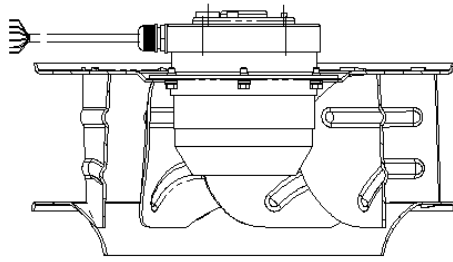
4.1 外形图/Dimension drawing



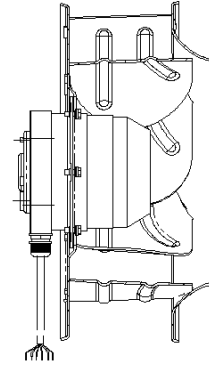
4.2 安装/intall

风机可轴水平或垂直朝下(出线孔朝上)安装。

The fan can be mounted horizontally or vertically downwards (outlet hole facing up).



轴垂直朝下



轴水平安装

4.3 叶轮/Impeller

叶轮由铝合金材料制成。

Impeller made of sheet aluminum alloy.

4.4 电机/Motor

外转子交流电机，电机型号：AM106A2-AG5-00。

External rotor AC motor, the motor model is AM106A2-AG5-00.

4.5 平衡/ Balancing

风机在 $1370 \pm 7\%$ r/min 运转时，每个端面动平衡精度不高于 G2.5，符合标准 JB/T9101。

At $1370 \pm 7\%$ r/min running speed, the residual unbalance of the fan is not less than G2.5 (balancing precision grade) in each plane, according with JB/T9101.

4.6 振动/Vibration of the fan

风机振动速度有效值按照 JB/T8689 标准规定。

Vibration speed virtual value of fans accord with JB/T8689.

4.7 跳动/ Runout of impeller

风轮轴向、径向跳动 $\leq 1.3\text{mm}$ 。

Runout of impeller in axial and radial direction $\leq 1.3\text{mm}$ 。

4.8 防护等级/Type of protection

电机的防护等级为 IP44。

Type of protection is IP44

4.9 寿命/Life time

风机寿命估算值 40000 小时，（在额定电压、环境温度为 40°C 、风机全速运转时）

Fan life expectance 40000 hours, determined when at nominal supply voltage, running at full speed, environment temperature of 40°C 。

5.0 风机性能/Fan performance

5.1 标称参数/Rating data

额定电压 Voltage [V]	频率 Frequency [Hz]	电容 capacitor [uF/V] ($\pm 5\%$)	输入电流 Current draw [A] ($\pm 10\%$)	输入功率 Power input [W] ($\pm 10\%$)	转速 Speed [r/min] ($\pm 10\%$)	风量 Air flow [m ³ /h] ($\pm 10\%$)	噪音 Noise level [Lp dB(A)] (-7~+3)	绝缘等级 Insulation class
230	50	12/450	1.6	370	1370	3650	76	F

备注/Remarks

1 电流、功率、转速 在放空状态下测试。

Current、Power、Speed test under emptying condition.

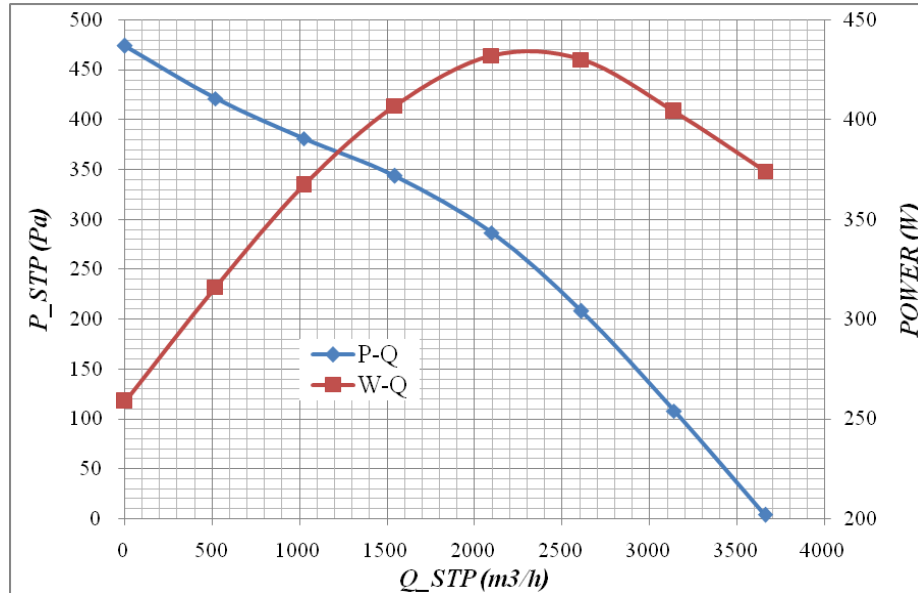
2 风量测试配置导风圈 T01.2.400.00100 测试（导风圈装入风轮 4mm）

Air flow test with guide ring T01.2.400.00100 (The guide ring is mounted on the wind wheel 4mm)

3 噪音 配置导风圈 T01.2.400.00100 测试（导风圈装入风轮 4mm），测试点距离风机进风口正上方约 1 米。

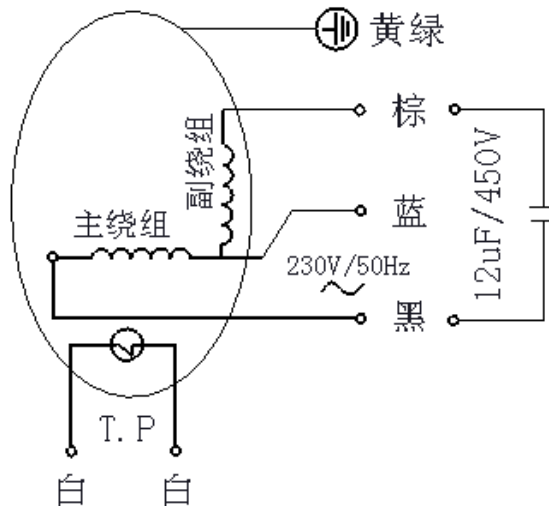
Noise test with guide ring T01.2.400.00100 (The guide ring is mounted on the wind wheel 4mm) at the same the test point is 1 meters above the blower inlet.

5.2 特性曲线/Performance curve（额定工作电压 230V 时/Rating voltage 50Hz）



6.0 电气性能/Electrical performance

6.1 接线示意图/View lead connection



6.2 电压范围/Voltage range

风机设计的额定运行电压为230V，可运行的电压范围是207~253V，

The fan is designed to operate at a nominal voltage of 230V but can be operated in the voltage range of 207 to 253V.

6.3 保护/Protection

电机有热保护功能，断开温度:150—160℃，复位温度:100—120℃，温控器装在电机里面，热保护功能需要将温控线接在继电器上，通过继电器起作用。

This motor with heat protection, cut off temperature: 150—160℃, replacement temperature 100—120℃,

Thermal protector will be installed inside the motor, the temperature control line need to be on the relay then the protection function will work through the relay.

7.0 质量要求/Quality requests

质量要求符合企业标准 / Quality requests accord with FANS-TECH standard

8.0 包装和标识/ Packaging and marks

8.1 包装/Packaging

包装必须有确定的尺寸和合适的结构确保风机在运输过程中不会损坏。

The packaging has to be well dimension and structure, so that the fans for on normal transport could not be damaged.

8.2 标识/Marks

制造商名称、产品型号、重量、尺寸等。

Markings: Name of manufacturer, type of fan, date of manufacture, weight, Size etc.

9.0 附件/Other requirements on accessory

9.1 导风圈/ Inlet cones

■带/Yes, □不带/No;

型号为/model: T01.2.400.00100

9.2 连接件要求/Annectent parts

连接器/linker(□有/Yes, ■没有/No),

型号为/model:

端子/terminal(□有/Yes, ■没有/No),

型号为/model:

9.3 电容/Capacitor

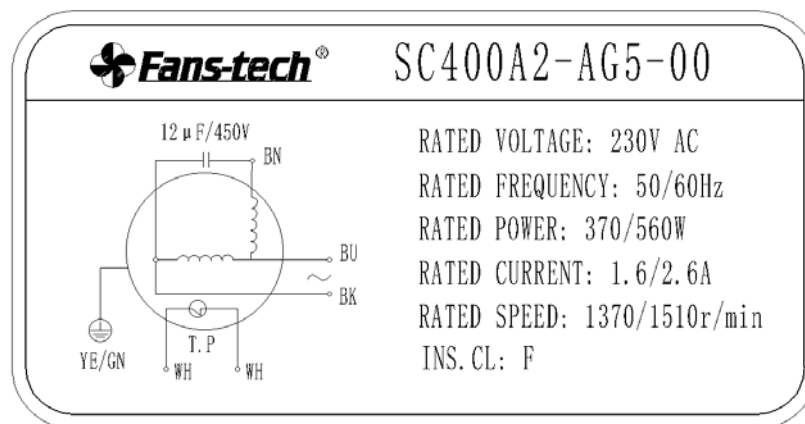
■带/Yes, □不带/No;

型号/model: 圆柱形电容 12 μ F/450V A 级

9.4 FANS-TECH 标志/ Logo FANS-TECH

■要/Yes, □取消/No;

9.5 铭牌标识/Nameplate drawing



警示语 /Warning:

- 1 电机、风机必须在规定的温度和湿度范围内使用，否则可能造成不可预测的损坏。
The fan and motor must be used within the prescribed scope of temperature and humidity otherwise it will cause an unexpected damage.
- 2 请务必使用铭牌指示的正确电压接入产品，否则会造成风机损坏。
Provide the right voltage according to the nameplate otherwise it will damage the product.
- 3 电机接线必须按接线图的指示，有接地线要求的产品请务必接上地线，不建议客户使用延长线，所有不按指示接线都可能造成电机烧坏。
Wiring depends on the wiring diagram and please connect the earth ground if required. we don't suggest to use the extension cord .Any wrong connection may cause the damage of the fan .
- 4 在移动产品的时候，不得以风机扇叶为受力点搬运产品，否则会造成扇叶变形而使风机运转时震动过大。
Be careful when moving the fan and do not take the blades as a handle because it will cause the distortion and chatter.
- 5 对于有接温控器要求的风机，请务必接上带温控器的引线，否则有可能造成电机内部温度过高而损坏。
Connect the thermostat if required otherwise it would damage the motor because of the over temperature.
- 6 使用的安装螺丝不得超过要求长度，否则会造成风机损坏。
The length of the mounting screws shall not exceed the requirement, otherwise the fan will be damaged.
- 7 请不要自主拆装风机，否则将影响扇叶平衡、防水等效果，严重的将引起安全问题。
Do not disassemble the fan arbitrarily. It may hurt the capacity of water tightness and dynamic balance or cause other serious problems.
- 8 风机的电气连接必须有合适的过流保护器以防止电流过大对产品造成损坏。
The over current protector is necessary in case the damage from the over current.
- 9 请按风机的建议安装方向安装产品，任何不按产品的要求来安装将会影响风机的使用寿命。
Install the fan as required ,any other installing direction would affect the service life of the product.
- 10 带导风圈的风机需按照推荐尺寸设计和安装，否则将影响产品性能。
The fan with inlet ring should be installed follow the requirements or it will affect the performance.
- 11 对于未带电缆线之风机，客户所接电缆线的外径需在要求的范围内，否则将影响防水效果。
Users should use the standard cable when install the fan other wise it will affect the water tightness.
- 12 风机请安装在儿童不能接触到扇叶和带电部件的地方，也不允许儿童单独使用本产品。
The fan should keep away from the children especially the blade and electric parts .And the children are not allowed to operate the fan alone.

未按以上条例安装及使用风机，所造成的机器损坏或者事故，我公司均不承担任何责任。敬请知悉！

Please be informed that we are not responsible for any damage or accidents caused by violating above rules to install and operate the fan.