

## 产 品 规 格 书

## PRODUCT SPECIFICATION

名 称 (NAME): 交流离心风机 AC centrifugal fan型 号 (MODEL): SC500B2-AL5-01软件型号 (SOFTWARE): /配置代码 (CONFIGURATION CODE): 001版 本 号 (VERSION NUMBER): A/1编 制 (PREPARED BY): 刘水 2020.5.15校 对 (CHECK): 杨艳芬 2020.5.16审 核 (REVIEW): 彭莉 2020.5.18批 准 (APPROVE): 邓星雄 2020.5.18

客户名称或代号 (CUSTOMER CODE&amp; NAME): \_\_\_\_\_

客户确认 (CUSTOMER CONFIRMATION): \_\_\_\_\_

日 期 (DATE): \_\_\_\_\_

## 换版记录/Records of revision

版本号 Revision no.	换版原因 Reason for revision	修订内容 Contents	姓名 Revised by	日期 Date
A/0	/	/	刘水	2020-05-07
A/1	连接器组件剥线部分没有做浸锡处理，与图纸不符。	将外形图中的连接器组件中剥线部分，不用浸锡改为6-挂锡Hanging tin	刘水	2020-05-15

## 1. 目的/ Purpose

本规格书规定了产品规格细节要求、技术标准或技术要求等。

This specification provides part specific requirements and the Engineering Standard and/or Engineering requirements.

## 2. 产品设计标准和安规要求/ Engineering standard and safety regulations

### 2.1 本产品符合的标准 / Engineering standard

2.1.1 GB/T12350 《小功率电动机的安全要求》

GB/T12350 *Safety requirements of small power motors*

2.1.2 JB/T10563 《一般用途离心通风机技术条件》

JB/T10563 *Technical specification for general purposes centrifugal fans*

2.1.3 EN60335-1 《家电和类似用途电器的安全要求》

EN60335-1 *Household and similar electrical appliances-safety*

### 2.2 本产品全部材料符合 RoHS 要求。

All materials accord with RoHS

## 3. 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:  $5\% \sim 95\% \text{RH}$ 。

Operating temperatures from  $-40^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ , Operating humidity from  $5\% \sim 95\% \text{RH}$ .

### 3.2 贮存温度和湿度/ Storing temperature and humidity

贮存温度范围:  $-40^{\circ}\text{C} \sim +65^{\circ}\text{C}$ , 贮存湿度范围:  $5\% \sim 95\% \text{RH}$ 。

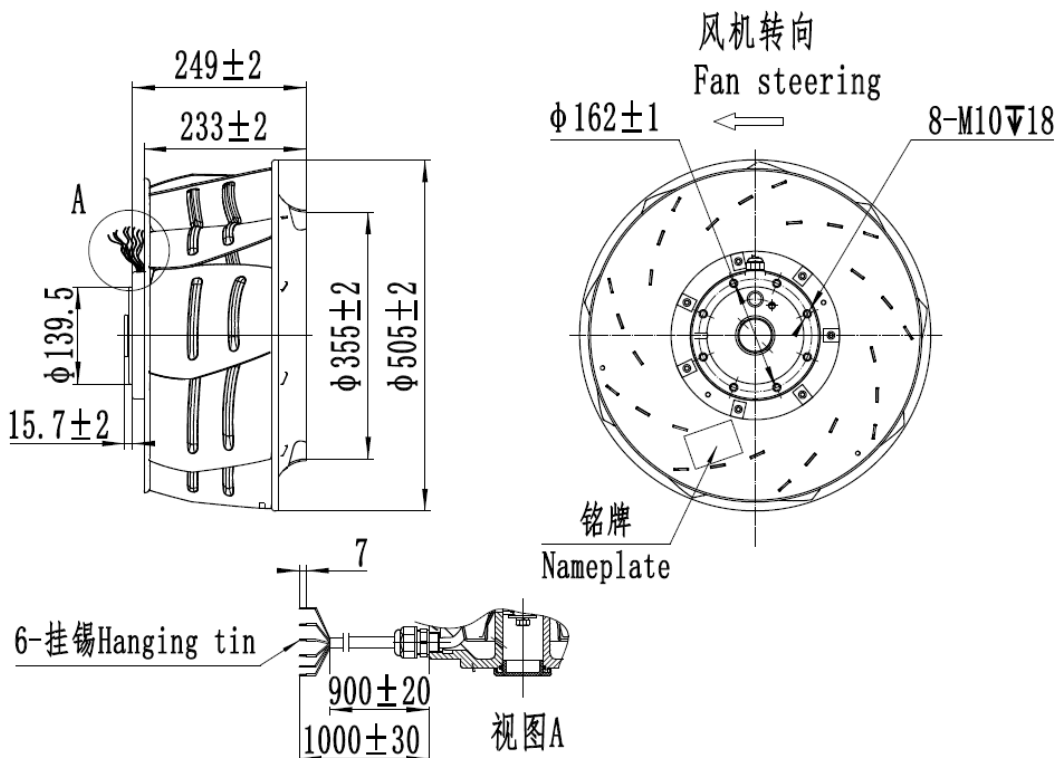
Storing temperature:  $-40^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ , storing humidity:  $5\% \sim 95\% \text{RH}$ .

## 4. 单风机重量约: 21.06 Kg /台

Weight: about 21.06 kg/pcs

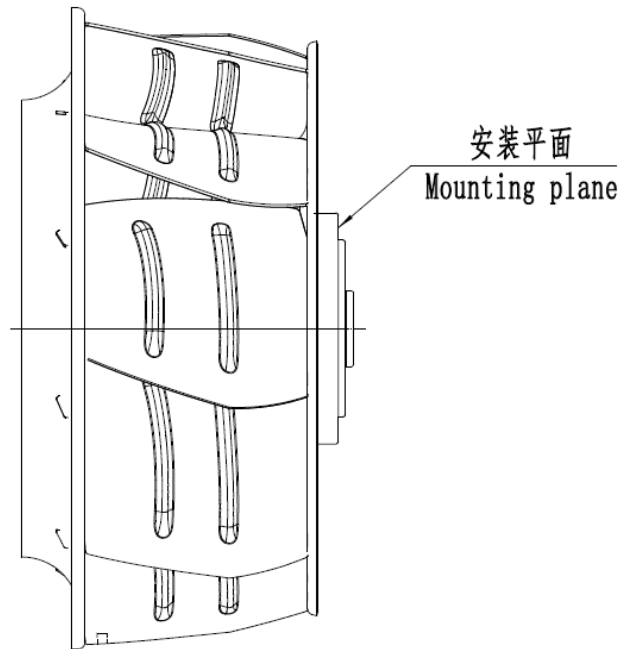
## 5. 机械要求/ Mechanical requirements

### 5.1 外形图/ Dimension drawing



## 5.2 安装方向/ Installation direction description:

5.2.1 电机轴水平或者电机轴竖直时转子向下安装/ Motor shaft horizontally or the rotor is mounted downward, When the motor shaft is vertical.



## 5.3 叶轮/Impeller

叶轮由铝合金材料制成。

Impeller made of sheet aluminum alloy.

## 5.4 电机/Motor

外转子交流电机，电机型号：AM137B2-AL5-04

External rotor is AC motor, the motor model is AM137B2-AL5-04.

## 5.5 平衡/ Balancing

风机在  $1420 \pm 10\%$  r/min 运转时，每个端面动平衡精度不低于平衡品质等级 G6.3。

When the fan is running at  $1420 \pm 10\%$  r/min, the dynamic balance accuracy of each end side is not lower than the balance quality grade G6.3.

## 5.6 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 according to JB/T8689 standard.

## 5.7 电机防护等级/motor Type of protection

防护等级为 IP44。

Ingress protection class is IP44.

## 5.8 寿命/Life expectancy

在额定电压、环境温度  $40^\circ\text{C}$ 、风机全速连续运转时，预期寿命为 20000 小时。（根据应用产品实际工况，预期寿命会有不同。）The life expectancy is 20000 hours at rated voltage, ambient temperature of  $40^\circ\text{C}$ , and continuous operation of the fan at full speed. (According to the actual working conditions of the product, the life expectancy will be different).

保质期以双方约定的协议为准。The warranty period is subject to the agreement agreed by both parties.

## 6. 风机性能/Fan performance

6.1 标称参数/Rating data(在室温为  $25^\circ\text{C}$ ，相对湿度为 85%RH 时测试\ Tested at room temperature of  $25^\circ\text{C}$  and relative temperature of 85% RH)

电压 Voltage [VAC]	接线 方式	频率 Frequency (Hz)	电流 Current draw [A] ±10%	输入功率 Power Input [W] ±10%	转速 Speed [r/min] ±10%	风量 Air flow [ m <sup>3</sup> /h] ±10%	噪音 Noise [Lp dB(A)] (+3/-7)	绝缘等级 Insulation class
3~400	△	50	2.1	1000	1420	8500	83	F

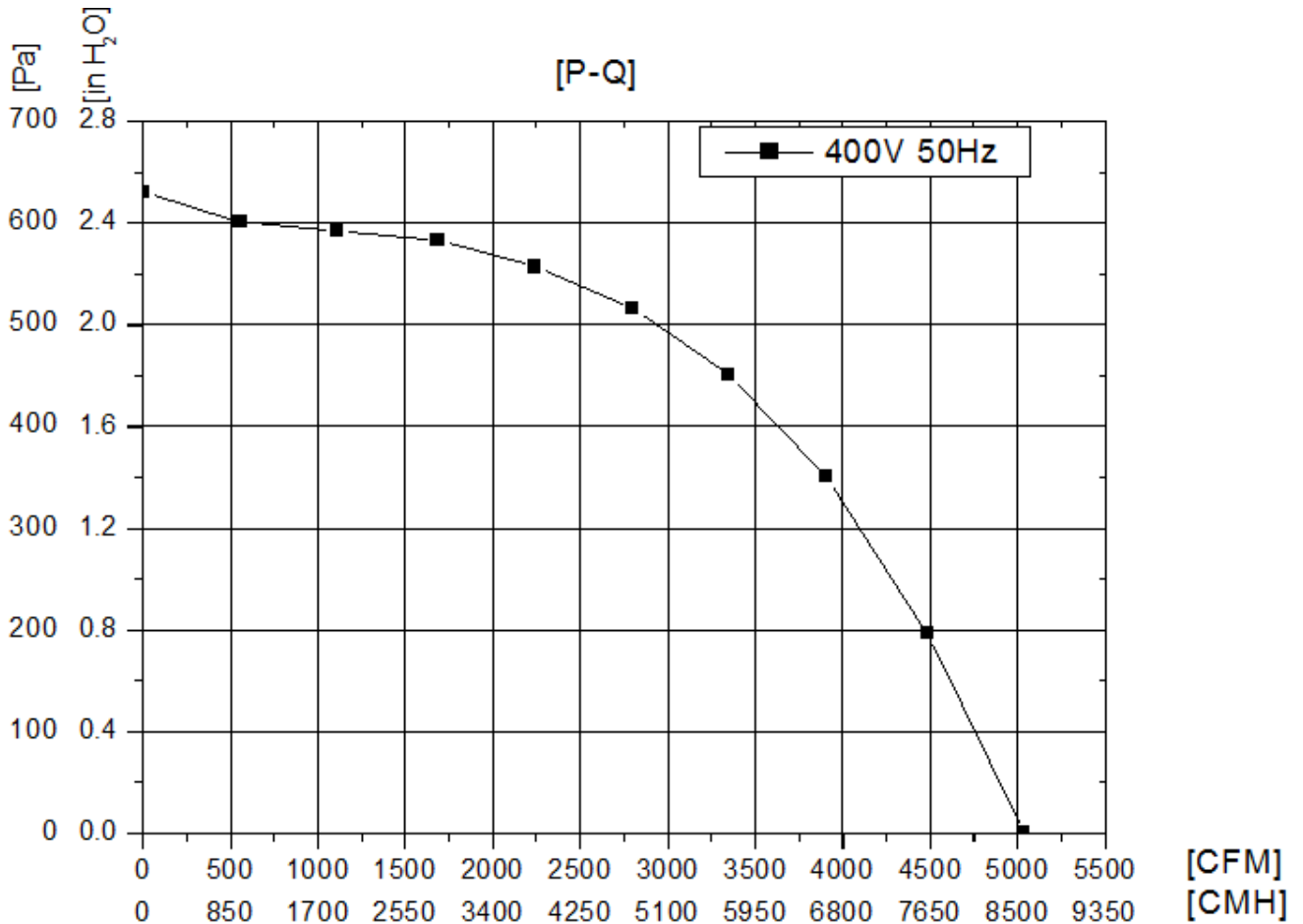
备注：标称参数是单风机敞开运行。风量按我司风洞测量值；噪音是在噪音房里，轴垂直放置风机,离风机进风口 1 米处测试。

Note: the nominal parameter is under the following situation in Fans-tech lab: Fan runs in open operation. The airflow is measured in the wind tunnel, the noise is tested in a horizontal position in the noise test room, with 1m distance to the air inlet of the fan.

### 6.2 最大电流点参数（供参考） Parameters at maximum current point (For reference)

电压 voltage [VAC]	接线 方式	频率 Frequency (Hz)	最大电流 Current draw [A]	输入功率 Power input [W]	转速 Speed [r/min]	静压 Pst [Pa]	风量 Air flow [ m <sup>3</sup> /h]
3~400	△	50	2.69	1463	1398	450	5692

### 6.3 特性曲线/Performance curve





## 8.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 package must have a defined size and a suitable structure to ensure that the fan will not be damaged during transport.

### 8.2 标识/Marks:

制造商名称、产品型号、重量、尺寸等

Marks: Name of manufacturer, type of fan, date of manufacture, weight, size and etc.

## 9.附件/Other requirements on accessory

### 9.1 连接件要求/Annectent parts

连接器/Connector(有/Yes、没有/No), 型号为/Model:

端子/Terminal(有/Yes、没有/No), 型号为/Model:

### 9.2 电容/Capacitor

带/Yes, 不带/No 型号为/Model:

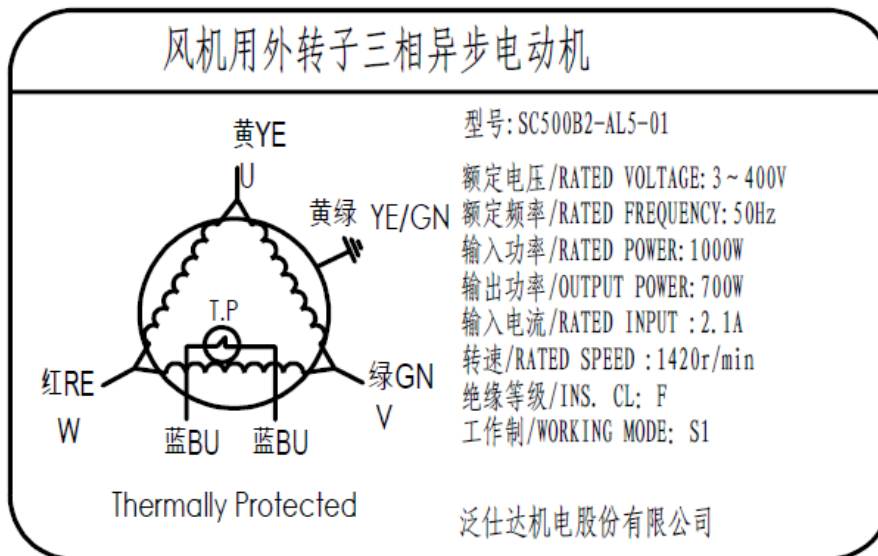
运行等级/Operating level:

### 9.3 导风圈/Inlet cones

带/Yes, 不带/No 型号为/Model:

## 10.产品标识

### 10.1 铭牌标识/Nameplate drawing:



## 11.警示语 /Warning:

- 11.1** 电机、风机必须在规定的使用温度和湿度的范围内使用，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.
- 11.2** 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.
- 11.3** 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 .
- 11.4** 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.
- 11.5** 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.
- 11.6** 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.
- 11.7** 请不要自主拆装风机，否则将影响动扇叶平衡、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 watertightness and dynamic balance or cause other serious problems.
- 11.8** 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 overcurrent protector is necessary in case the damage from the overcurrent.
- 11.9** 请按风机的建议安装方向安装产品，任何不按产品要求的安装方向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.
- 11.10** 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.
- 11.11** 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 otherwise it will affect the watertightness.
- 11.12** 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 accident caused by violating above rules to install and operate the fan.**