

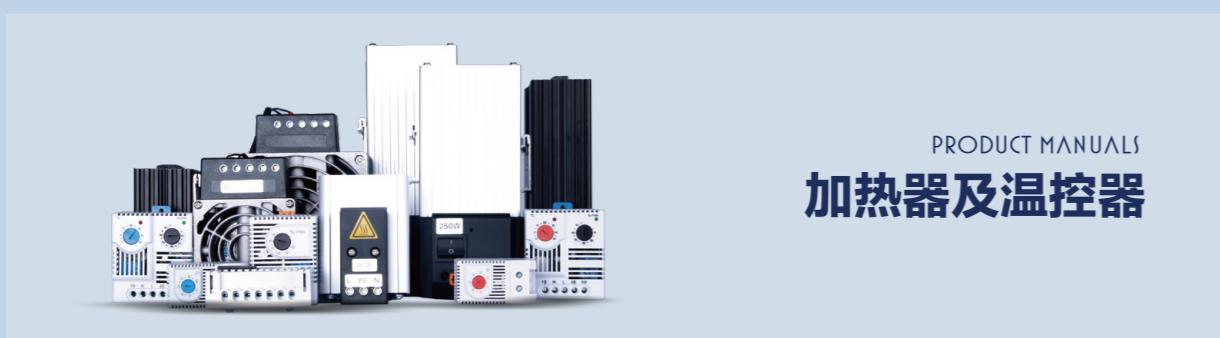


泽诺动力



PRODUCT MANUALS

## 风扇及过滤器



PRODUCT MANUALS

## 加热器及温控器



PRODUCT MANUALS

## LED机柜灯



PRODUCT MANUALS

# 散热风机选型手册

苏州市吴中区胥口镇合丰路558号

159 6222 3467 / 180 1307 1198 (销售经理)

<http://www.jszndlkj.com/>



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# COMPANY PROFILE

## 公司介绍

苏州泽诺动力科技有限公司，是集研发、生产、销售、服务为一体的科技型企业。

公司以"高起点、高标准、高质量"为质量宗旨，致力于打造拥有专业的研发、成熟的工艺、先进的生产严格的检测的现代化企业。

公司主要以机柜环境为主导，生产销售散热风扇、防护网及通风过滤器系列、加热器及温控器系列、控制柜除湿器系列、机柜灯系列以及电控配套件等系列产品。

SUZHOU ZENOO POWER TECHNOLOGY CO.,LTD IS A TECHNOLOGY BASED ENTERPRISE THAT INTEGRATES RESEARCH AND DEVELOPMENT, PRODUCTION, SALES, AND SERVICE.

THE COMPANY ADHERES TO THE QUALITY TENET OF HIGH STARTING POINT, HIGH STANDARDS, AND HIGH QUALITY, AND IS COMMITTED TO BUILDING A MODERN ENTERPRISE WITH PROFESSIONAL RESEARCH AND DEVELOPMENT, MATURE PROCESSES, AND ADVANCED PRODUCTION, AND STRICT TESTING.

THE COMPANY MAINLY FOCUSES ON CABINET ENVIRONMENT, PRODUCING AND SELLING COMPUTER FAN, PROTECTIVE SCREEN AND VENTILATION FILTER SERIES, HEATER AND TEMPERATURE CONTROLLER SERIES, CONTROL CABINET DUST FILTER SERIES, CABINET LAMP SERIES, ELECTRIC CONTROL ACCESSORIES AND OTHER SERIES OF PRODUCTS.

公司成立至今，一直奉行"坦诚、沟通、信任、合作、互惠、共赢"的经营宗旨，以良好的信誉和优质的产品赢得了广大客户的信赖和支持。面对问题我们将以积极的态度、严谨的分析、有效的改善，与新老客户起共同努力，为广大客户的兴旺发达作出新贡献，也使广大客户选用本公司产品始终充满信心！

SINCE ITS ESTABLISHMENT, THE COMPANY HAS ALWAYS ADHERED TO THE BUSINESS PHILOSOPHY OF HONESTY, COMMUNICATION, TRUST, COOPERATION, MUTUAL BENEFIT, AND WIN-WIN, AND HAS WON THE TRUST AND SUPPORT OF CUSTOMERS WITH GOOD REPUTATION AND HIGH-QUALITY PRODUCTS. IN THE FACE OF PROBLEMS, WE WILL WORK TOGETHER WITH NEW AND OLD CUSTOMERS WITH A POSITIVE ATTITUDE, BICOUSAN ANALYSIS, AND EFFECTIVE IMPLEMENTMENT, MAKING NEW CONTRIBUTIONS TO THE PROSPERITY AND DEVELOPMENT OF OUR CUSTOMERS, AND ALSO SHOWING THEM HOW CONFIDENT IN CHOOSING OUR COMPANY'S PRODUCTS.



### ■ 卓越的企业文化

企业文化是保持企业基业常青的根本。泽诺动力的企业文化源于现实的努力，以及对未来的追求。企业成功探索了创新技术与自我发展相结合的模式，把“创新”带进了企业的历史进程。随着市场环境的变化，追求品质创新已变成泽诺动力坚定的信念和前进的动力。

### ■ 精湛的生产工艺

泽诺动力坚持使用精湛的生产设备和工艺，极大的提高了生产效率，保证了产品的优良性能和品质的一致性保护了员工作业安全。泽诺动力密切关注行业最新发展动态，不断地进行技术升级，保持产品、工艺技术和加工、检测设备的先进性。

### ■ 质量为先的产品管理

泽诺动力一直以来对产品质量采取严谨态度和精益求精的精神，“质量为先”的理念和原则贯穿于产品开发、生产、销售及售后服务的整个业务链。泽诺动力目前通过了ISO9001:2015国际质量体系认证，并通过了国际权威机构质量安全认证及CQC的产品质量认证。

### ■ 厚厚的开发能力

泽诺动力在开发领域建立了功能完善、水平领先的技术开发部，已具备多系列产品开发能力，并且能够针对客户需求进行深入的研究和开发。泽诺动力也一直着重挑选和培养技术人才，是公司未来开发能力建设中重要的一环，也正因为这一系列举措，公司在产品开发实力方面正一步一步迈上更高的台阶。

### ■ 可持续发展的企业

从建厂开始，企业就将环保确定为基本方针，并遵循国家环保要求，结合自身产品和生产流程特点，摸索和总结出了适合自己的、行之有效的环境保护管理措施。也实现了众多产品符合ROSH环保要求和实现无卤阻燃！泽诺动力目标就是实现企业环境管理、产品环境性能及市场环境需求，三者能达到可持续发展，更好的服务于社会。

**愿成长中的泽诺动力成为您最佳合作伙伴！**  
**诚挚的欢迎国内外朋友莅临指导！**



# COMPANY PHILOSOPHY

## 经营理念

### 研发创新

研发理念：自主研发、勇于创新、可靠实用

### 精益求精

制造理念：精益生产、质量至上

### 持续发展

指导思想：优质的人才、专业的研发、先进的生产、严格的检测

### 服务至上

服务理念：坦诚、信任、合作、共赢

RESEARCH AND DEVELOPMENT PHILOSOPHY: INDEPENDENT RESEARCH AND DEVELOPMENT, COURAGE TO INNOVATE, RELIABLE AND PRACTICAL.

MANUFACTURING PHILOSOPHY: LEAN MANUFACTURING, QUALITY FIRST

SUSTAINED DEVELOPMENT PHILOSOPHY: HIGH QUALITY TALENTS, PROFESSIONAL RESEARCH AND DEVELOPMENT, ADVANCED PRODUCTION, AND STRICT TESTING

SERVICE PHILOSOPHY: HONESTY, TRUST, COOPERATION, AND WIN-WIN SITUATION

**企业愿景：**快乐工作，心中有梦，齐心协力，创造辉煌

**企业使命：**为员工提供机会、为客户创造价值、为社会承担责任

**企业目标：**创知名品牌，建优质企业

**企业精神：**诚信互勉共创鸿图

CORPORATE VISION: WORK HAPPILY, HAVE DREAMS IN YOUR HEART, WORK TOGETHER TO CREATE BRILLIANCE.  
CORPORATE MISSION: PROVIDING OPPORTUNITIES FOR EMPLOYEES, CREATING VALUE FOR CUSTOMERS, AND TAKING RESPONSIBILITY FOR SOCIETY.  
CORPORATE GOAL: TO CREATE A WELL-KNOWN BRAND AND BUILD A HIGH QUALITY ENTERPRISE.  
CORPORATE SPIRIT: INTEGRITY, MUTUAL ENCOURAGEMENT, AND CREATING A GREAT FUTURE TOGETHER.

# QUALIFICATION CERTIFICATION

## 资质认证

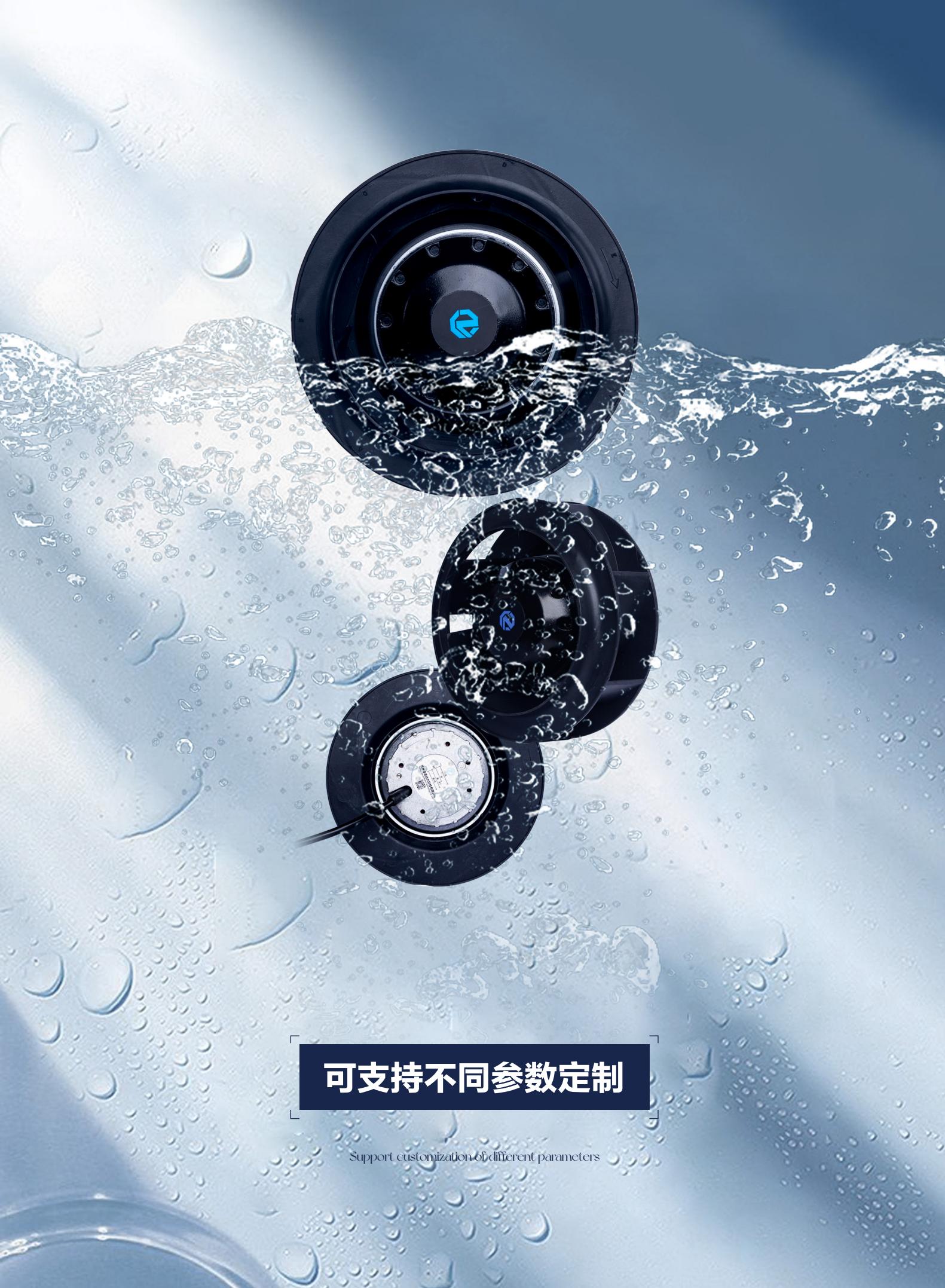
### 专注于机柜控制环境的安全与节能问题

专业 · 专注 · 品质 · 高效



# PRODUCT CATALOG

## 产品目录



可支持不同参数定制

Support customization of different parameters

### AC后倾离心风机

GENERAL SPECIFICATIONS

001 / 010

### AC前倾离心风机

GENERAL SPECIFICATIONS

011 / 016

### AC金属轴流风机

GENERAL SPECIFICATIONS

017 / 022

### AC轴流风机

GENERAL SPECIFICATIONS

023 / 037

### DC轴流风机

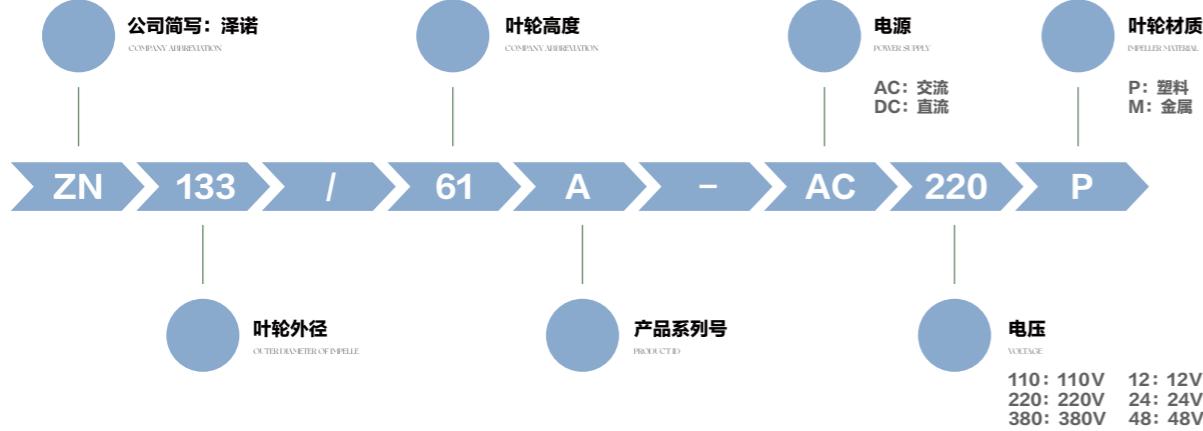
GENERAL SPECIFICATIONS

038 / 052

# PRODUCT INTRODUCTION

## 离心风机

## 后倾离心风机命名定义



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

**材质:** Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: **UL Type**  
( Lead Wire )

**工作模式: S1**  
( Mode of operation )

**工作环境: -40°C~+65°C, 0%~95% RH**  
( Operation Temperature )

**储存环境:** -40°C~+65°C, 0%~95% RH  
( Storage Temperature )

**功能选择: Impedance Protected / Thermal control**  
( Available Features )

**振动：** 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

**防护等级:** 电机的防护等级为IP44  
( Type of protection )

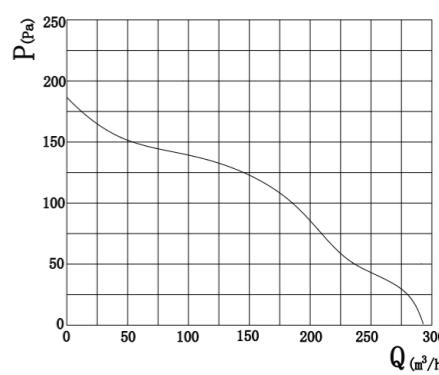
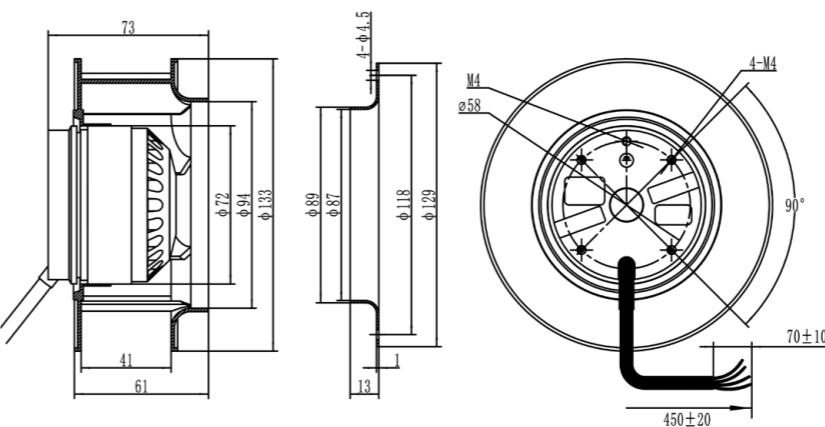


## 技术参数 / TECHNICAL DATA

| 型号<br>Model      | Freq<br>频率 | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------|------------|----------------------|--------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|-------------------|--------------|
|                  | Hz         | Ball                 | Sleeve | VAC                      | A                        | W                    | RPM                    | m³/H           | Pa                 | dBA               | g            |
| ZN133/61A-AC220P | 50         | •                    |        | 230                      | 0.21                     | 42                   | 2700                   | 290            | 185                | 56                | 820          |

(注: 以上数据仅供参考, 其他参数支持定制)

## 外观尺寸 / DIMENSIONS DRAWING



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 技术参数 / TECHNICAL DATA

| 型号<br>Model      | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise<br>Level<br>噪音 | Weight<br>重量 |
|------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                  |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | m³/H               | Pa                   | dBA          |
| ZN175/62A-AC220P | 50         | •                    |      | 230                      | 0.2                      | 43                   | 2550                   | 490            | 255                | 62                   | 880          |

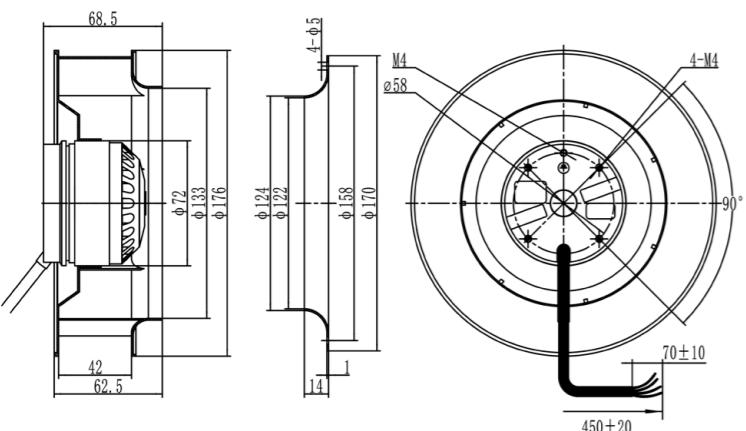
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## 技术参数 / TECHNICAL DATA

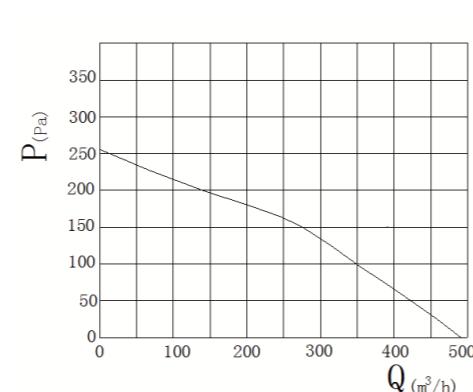
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|------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                  |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | m³/H               | Pa                   | dBA          |
| ZN190/63A-AC220P | 50         | •                    |      | 230                      | 0.35                     | 75                   | 2550                   | 540            | 340                | 65                   | 1350         |

(注: 以上数据仅供参考, 其他参数支持定制)

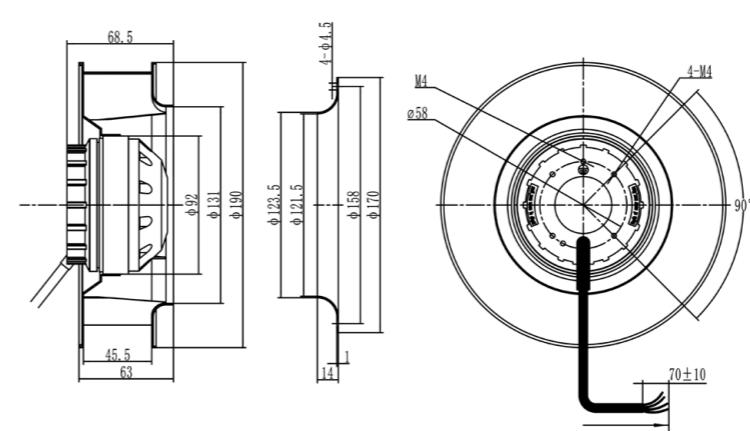
## 外观尺寸 / DIMENSIONS DRAWING



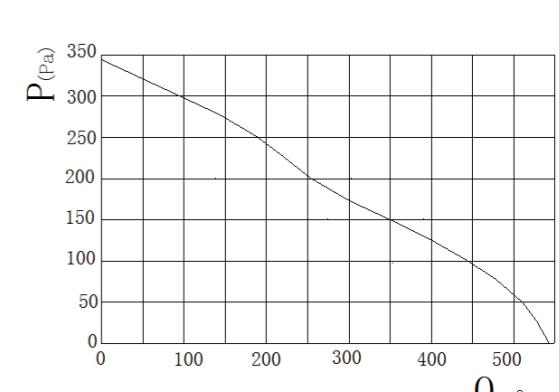
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

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(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 技术参数 / TECHNICAL DATA

| 型号<br>Model      | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise<br>Level<br>噪音 | Weight<br>重量 |
|------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                  |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | m³/H               | Pa                   | dBA          |
| ZN190/60A-AC220M | 50         | •                    |      | 230                      | 0.35                     | 75                   | 2500                   | 600            | 400                | 65                   | 1670         |

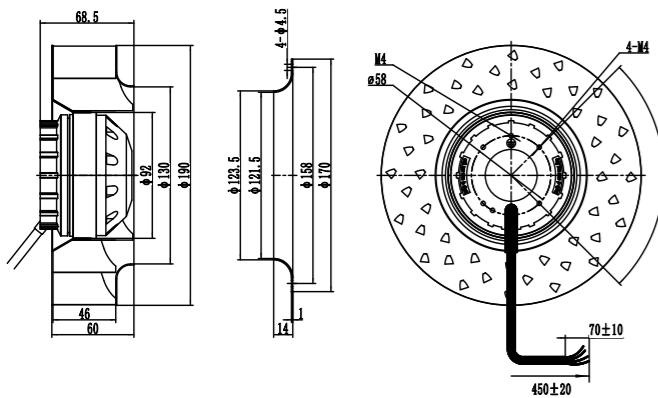
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## 技术参数 / TECHNICAL DATA

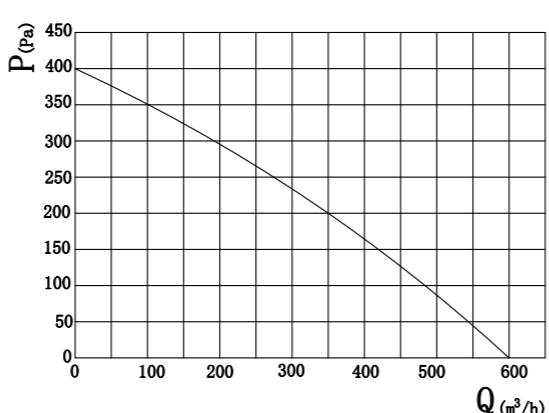
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|------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                  |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | m³/H               | Pa                   | dBA          |
| ZN220/64A-AC220P | 50         | •                    |      | 230                      | 0.55                     | 110                  | 2600                   | 910            | 490                | 69                   | 1800         |

(注: 以上数据仅供参考, 其他参数支持定制)

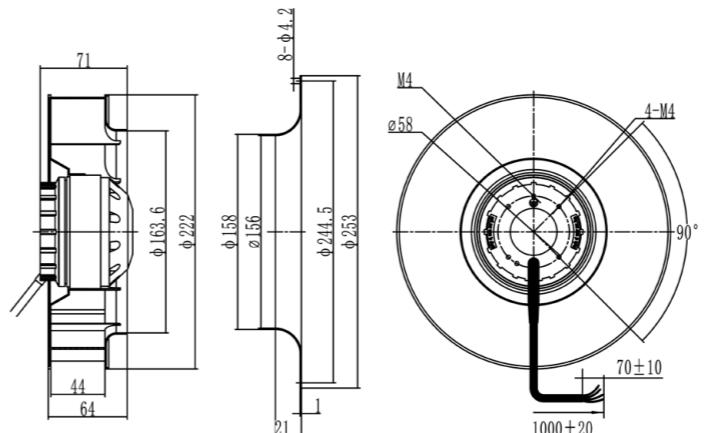
## 外观尺寸 / DIMENSIONS DRAWING



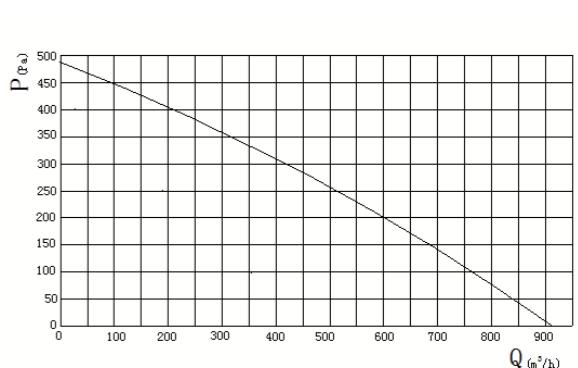
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)





## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)

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(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 技术参数 / TECHNICAL DATA

| 型号<br>Model      | Freq<br>频率 | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------|------------|----------------------|--------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|-------------------|--------------|
|                  | Hz         | Ball                 | Sleeve | VAC                      | A                        | W                    | RPM                    | m³/H           | Pa                 | dBA               | g            |
| ZN250/80B-AC220M | 50         | •                    |        | 230                      | 0.78                     | 175                  | 2690                   | 1680           | 675                | 73                | 3040         |

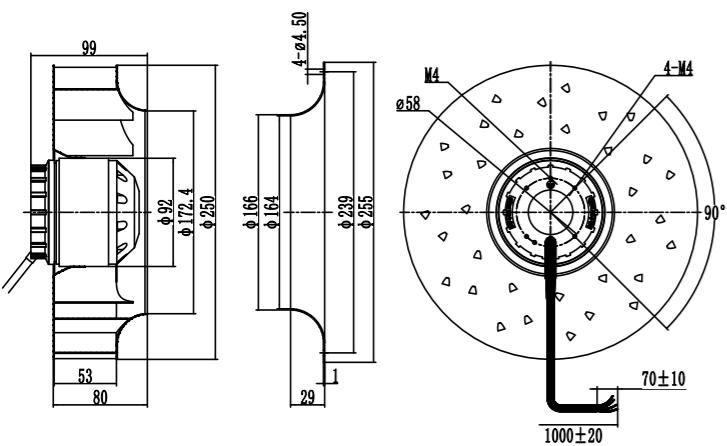
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## 技术参数 / TECHNICAL DATA

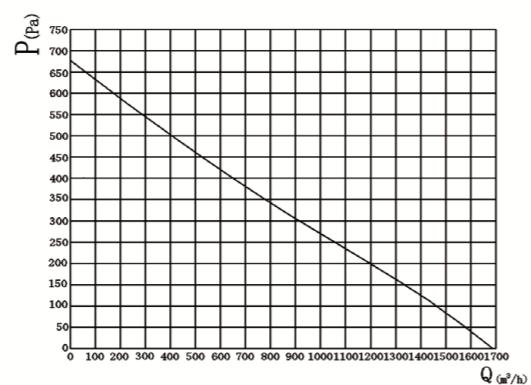
| 型号<br>Model      | Freq<br>频率 | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------|------------|----------------------|--------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|-------------------|--------------|
|                  | Hz         | Ball                 | Sleeve | VAC                      | A                        | W                    | RPM                    | m³/H           | Pa                 | dBA               | g            |
| ZN280/80A-AC220M | 50         | •                    |        | 230                      | 1.0                      | 240                  | 2480                   | 1640           | 640                | 80                | 3190         |

(注: 以上数据仅供参考, 其他参数支持定制)

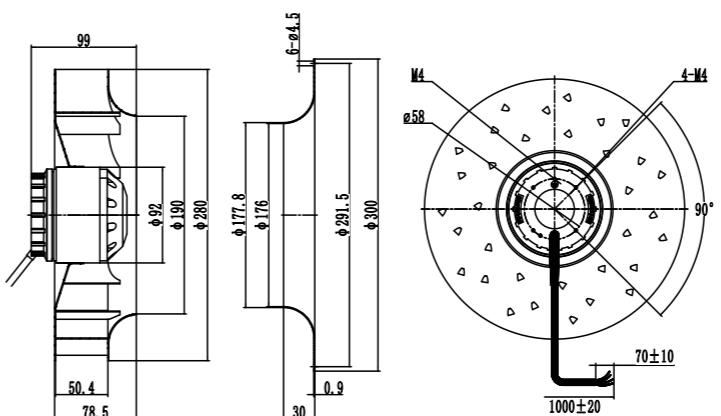
## 外观尺寸 / DIMENSIONS DRAWING



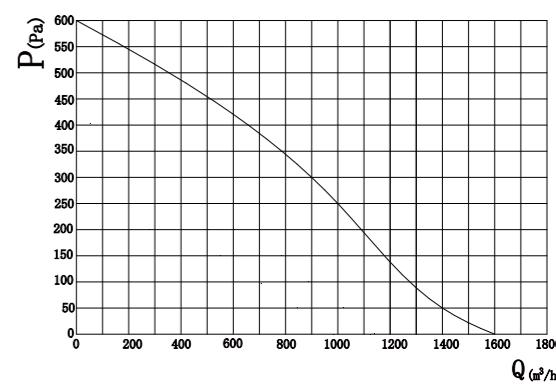
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



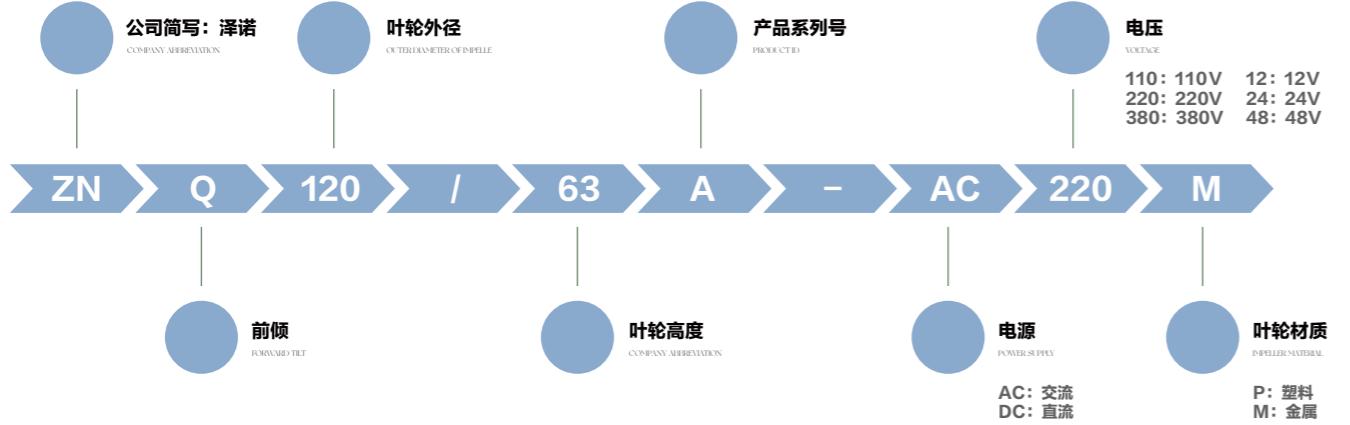
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



# PRODUCT INTRODUCTION

## 离心风机

### 前倾离心风机命名定义



### 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)

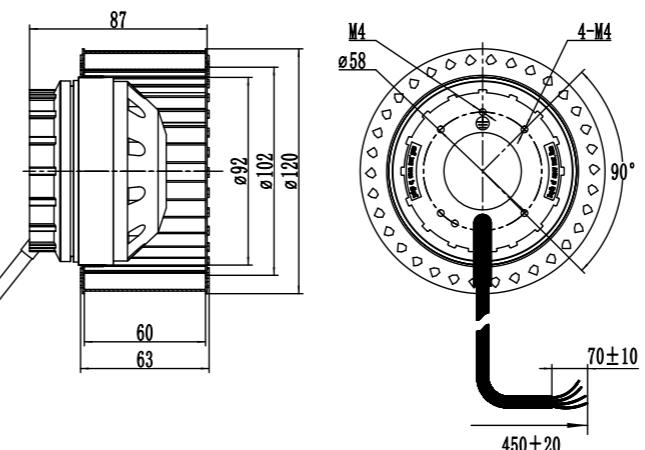


### 技术参数 / TECHNICAL DATA

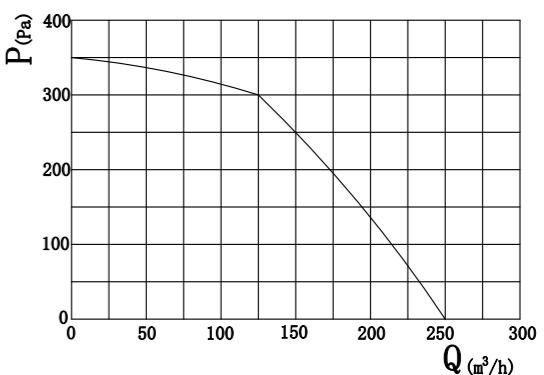
| 型号<br>Model       | Freq<br>频率<br>Hz | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VAC | Rated<br>Current<br>额定电流<br>A | Input<br>Power<br>功率<br>W | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>m³/H | Air Pressure<br>风压<br>Pa | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|-------------------|------------------|----------------------|--------|---------------------------------|-------------------------------|---------------------------|-------------------------------|------------------------|--------------------------|-----------------------------|-------------------|
|                   |                  | Ball                 | Sleeve |                                 |                               |                           |                               |                        |                          |                             |                   |
| ZNQ120/63A-AC220M | 50               | •                    |        | 220                             | 0.30                          | 65                        | 2742                          | 250                    | 350                      | 60                          | 1420              |

(注: 以上数据仅供参考, 其他参数支持定制)

### 外观尺寸 / DIMENSIONS DRAWING



### 曲线 / P&Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)功能选择: Impedance Protected / Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)功能选择: Impedance Protected / Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 技术参数 / TECHNICAL DATA

| 型号<br>Model       | Freq<br>频率 | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise<br>Level<br>噪音 | Weight<br>重量 |
|-------------------|------------|----------------------|--------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                   | Hz         | Ball                 | Sleeve | VAC                      | A                        | W                    | RPM                    | m³/H           | Pa                 | dBA                  | g            |
| ZNQ133/73A-AC220M | 50         | •                    |        | 220                      | 0.35                     | 75                   | 2402                   | 310            | 500                | 65                   | 1370         |

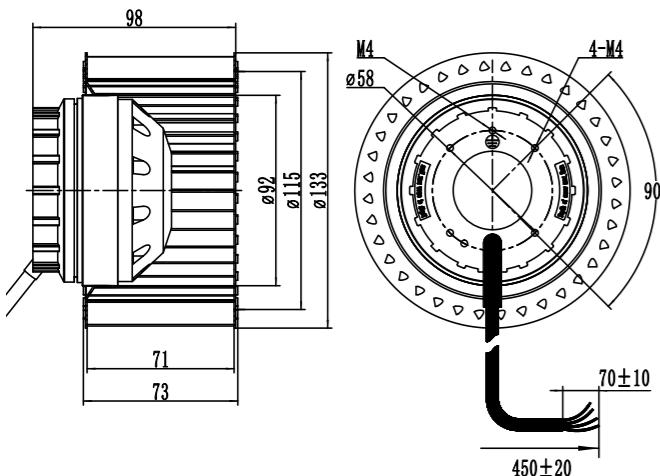
(注: 以上数据仅供参考, 其他参数支持定制)

## 技术参数 / TECHNICAL DATA

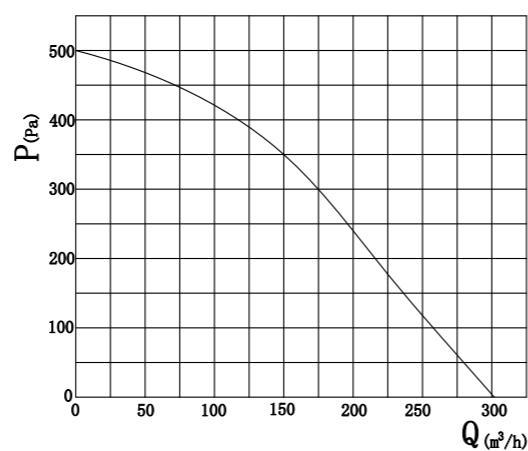
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|-------------------|------------|----------------------|--------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                   | Hz         | Ball                 | Sleeve | VAC                      | A                        | W                    | RPM                    | m³/H           | Pa                 | dBA                  | g            |
| ZNQ140/60A-AC220M | 50         | •                    |        | 220                      | 0.35                     | 75                   | 2487                   | 350            | 390                | 64                   | 1420         |

(注: 以上数据仅供参考, 其他参数支持定制)

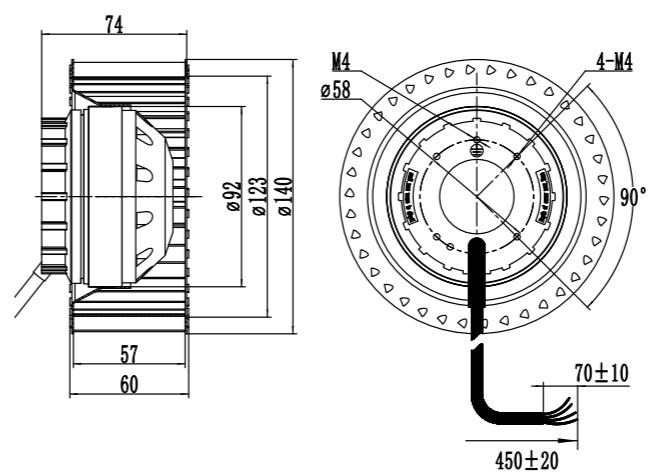
## 外观尺寸 / DIMENSIONS DRAWING



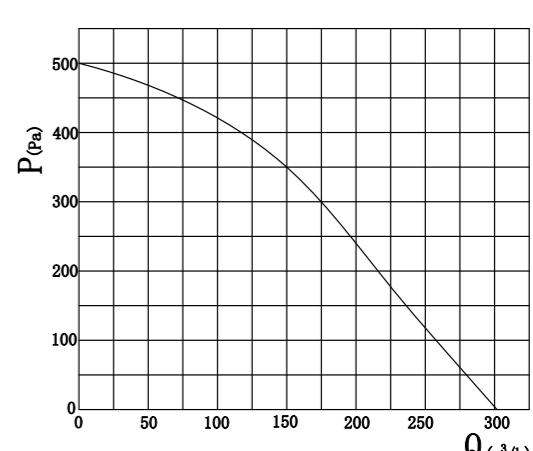
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Steel; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Operation Temperature)

储存环境: -40°C ~ +65°C, 0% ~ 95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 技术参数 / TECHNICAL DATA

| 型号<br>Model       | Freq<br>频率 | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------|------------|----------------------|--------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|-------------------|--------------|
|                   | Hz         | Ball                 | Sleeve | VAC                      | A                        | W                    | RPM                    | m³/H           | Pa                 | dBA               | g            |
| ZNQ150/70A-AC220M | 50         | •                    |        | 220                      | 0.60                     | 130                  | 2635                   | 490            | 650                | 65                | 2320         |

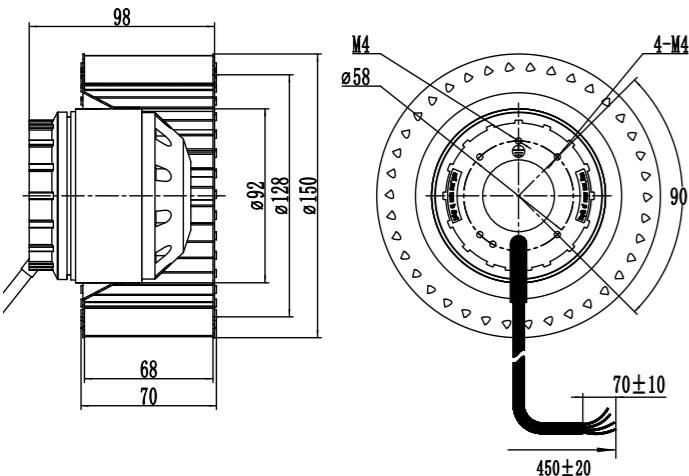
(注: 以上数据仅供参考, 其他参数支持定制)

## 技术参数 / TECHNICAL DATA

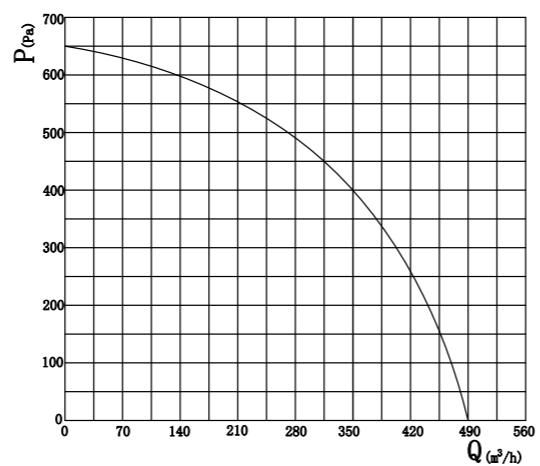
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|-------------------|------------|----------------------|--------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|-------------------|--------------|
|                   | Hz         | Ball                 | Sleeve | VAC                      | A                        | W                    | RPM                    | m³/H           | Pa                 | dBA               | g            |
| ZNQ160/63A-AC220M | 50         | •                    |        | 220                      | 0.65                     | 140                  | 2562                   | 540            | 550                | 64                | 2250         |

(注: 以上数据仅供参考, 其他参数支持定制)

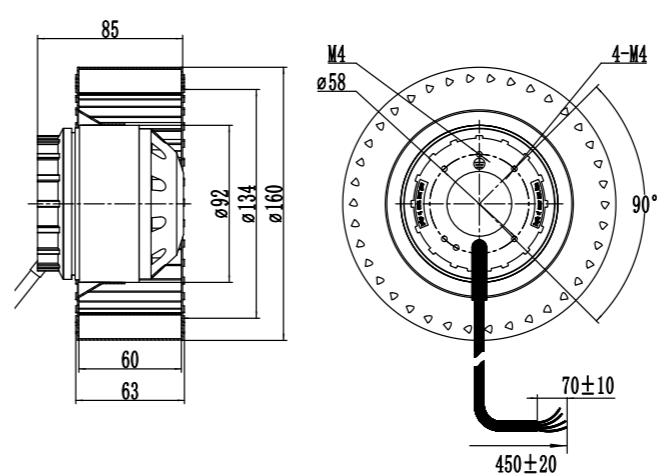
## 外观尺寸 / DIMENSIONS DRAWING



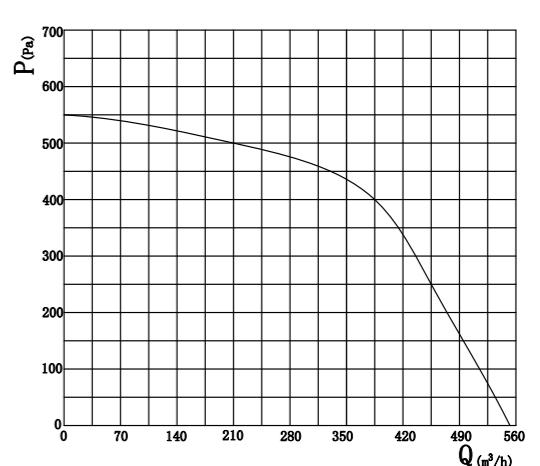
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



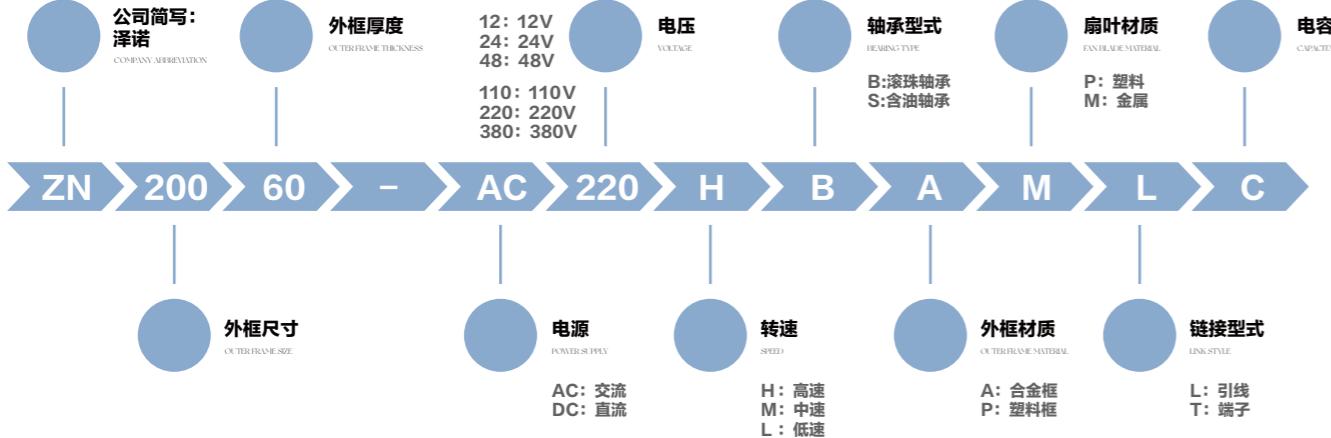
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



# PRODUCT INTRODUCTION

## 轴流风机

### 轴流风机命名定义



### 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller:Steel; Frame:Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -40°C~+70°C, 0%~95% RH  
(Operation Temperature)

储存环境: -40°C~+85°C, 0%~95% RH  
(Storage Temperature)

功能选择: Impedance Protected / Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



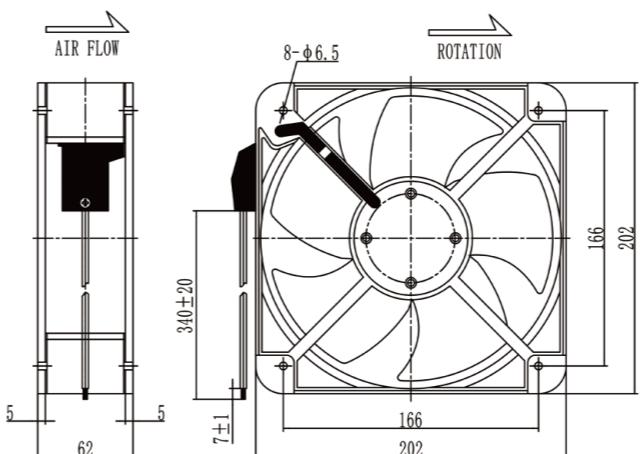
### 技术参数 / TECHNICAL DATA

| 型号<br>Model         | Freq<br>频率<br>Hz | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压<br>VAC | Rated Current<br>额定电流<br>A | Input Power<br>功率<br>W | Rated Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Flow<br>风量<br>m³/min | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Air Pressure<br>风压<br>Pa | Noise Level<br>噪音<br>dBa | Weight<br>重量<br>g |
|---------------------|------------------|----------------------|--------|------------------------------|----------------------------|------------------------|----------------------------|-----------------------|--------------------------|--|--------------------------|--------------------------|-------------------|
|                     |                  | Ball                 | Sleeve |                              |                            |                        |                            |                       |                          |  |                          |                          |                   |
| ZN20060-AC220HBAMLC | 50               | •                    |        | 230                          | 0.21                       | 42                     | 2700                       | 420                   | 11.9                     | 17.3                                     | 170                      | 60                       | 1300              |

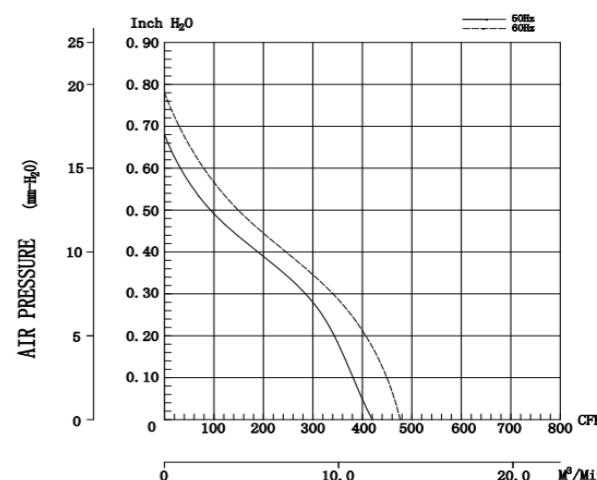
(注: 以上数据仅供参考, 其他参数支持定制)



### 外观尺寸 / DIMENSIONS DRAWING



### 曲线 / P&Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller:Steel; Frame:Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -40°C~+70°C, 0%~95% RH  
(Operation Temperature)储存环境: -40°C~+85°C, 0%~95% RH  
(Storage Temperature)功能选择: Impedance Protected / Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller:Steel; Frame:Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -40°C~+70°C, 0%~95% RH  
(Operation Temperature)储存环境: -40°C~+85°C, 0%~95% RH  
(Storage Temperature)功能选择: Impedance Protected / Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 技术参数 / TECHNICAL DATA

| 型号<br>Model         | Freq<br>频率 | Bearing System<br>轴承 |      | Rated Voltage<br>额定电压 | Rated Voltage<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Flow<br>风量 | Air Pressure<br>风压 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|---------------------|------------|----------------------|------|-----------------------|-----------------------|-------------------|---------------------|----------------|----------------|--------------------|--------------------|-------------------|--------------|
|                     |            | Hz                   | Ball | Sleeve                | VAC                   | A                 | W                   | RPM            | CFM            | m³/min             | mmH <sub>2</sub> O | Pa                | dBA          |
| ZN22060-AC220HBAMLC | 50         | •                    |      | 230                   | 0.21                  | 42                | 2700                | 420            | 11.9           | 17.3               | 170                | 60                | 1300         |

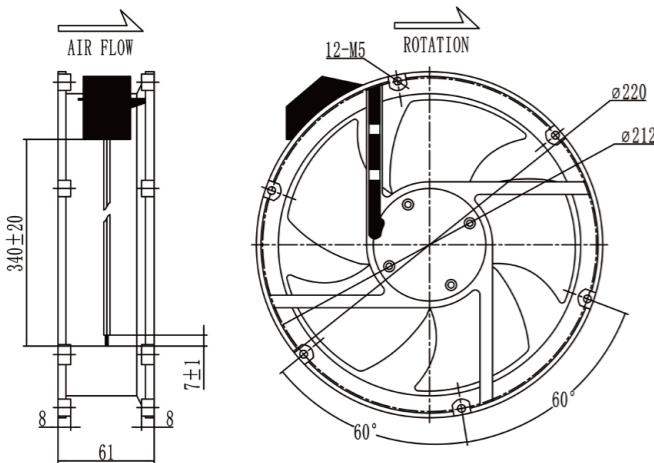
(注: 以上数据仅供参考, 其他参数支持定制)

## 技术参数 / TECHNICAL DATA

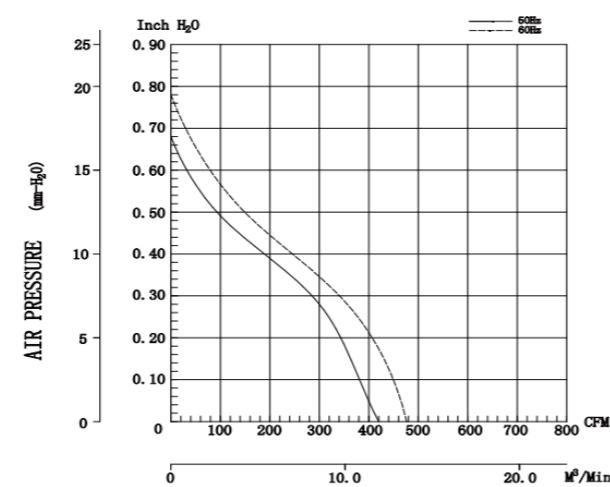
| 型号<br>Model         | Freq<br>频率 | Bearing System<br>轴承 |      | Rated Voltage<br>额定电压 | Rated Voltage<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Flow<br>风量 | Air Pressure<br>风压 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|---------------------|------------|----------------------|------|-----------------------|-----------------------|-------------------|---------------------|----------------|----------------|--------------------|--------------------|-------------------|--------------|
|                     |            | Hz                   | Ball | Sleeve                | VAC                   | A                 | W                   | RPM            | CFM            | m³/min             | mmH <sub>2</sub> O | Pa                | dBA          |
| ZN22580-AC220HBAMLC | 50         | •                    |      | 230                   | 0.35                  | 75                | 2600                | 530            | 15             | 17                 | 167                | 58                | 2160         |

(注: 以上数据仅供参考, 其他参数支持定制)

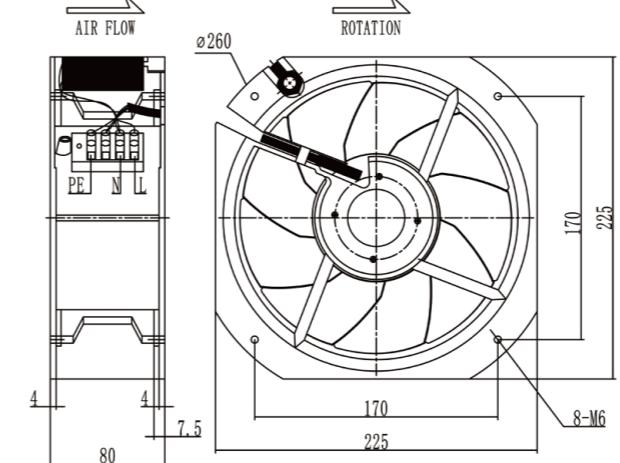
## 外观尺寸 / DIMENSIONS DRAWING



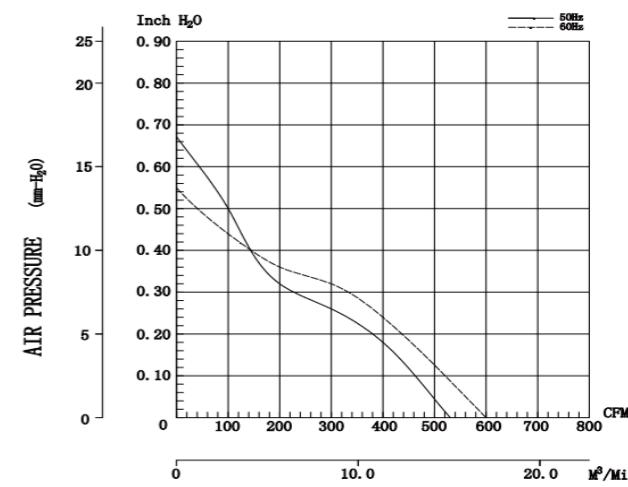
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller:Steel; Frame:Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -40°C~+70°C, 0%~95% RH  
(Operation Temperature)储存环境: -40°C~+85°C, 0%~95% RH  
(Storage Temperature)功能选择: Impedance Protected / Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller:Steel; Frame:Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -40°C~+70°C, 0%~95% RH  
(Operation Temperature)储存环境: -40°C~+85°C, 0%~95% RH  
(Storage Temperature)功能选择: Impedance Protected / Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 技术参数 / TECHNICAL DATA

| 型号<br>Model         | Freq<br>频率 | Bearing System<br>轴承 |      | Rated Voltage<br>额定电压 | Rated Voltage<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Flow<br>风量 | Air Pressure<br>风压 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|---------------------|------------|----------------------|------|-----------------------|-----------------------|-------------------|---------------------|----------------|----------------|--------------------|--------------------|-------------------|--------------|
|                     |            | Hz                   | Ball | Sleeve                | VAC                   | A                 | W                   | RPM            | CFM            | m³/min             | mmH₂O              | Pa                | dBA          |
| ZN25489-AC220HBAMLC | 50         | •                    |      | 230                   | 0.36                  | 80                | 2600                | 760            | 21.5           | 19.8               | 195                | 75                | 2200         |

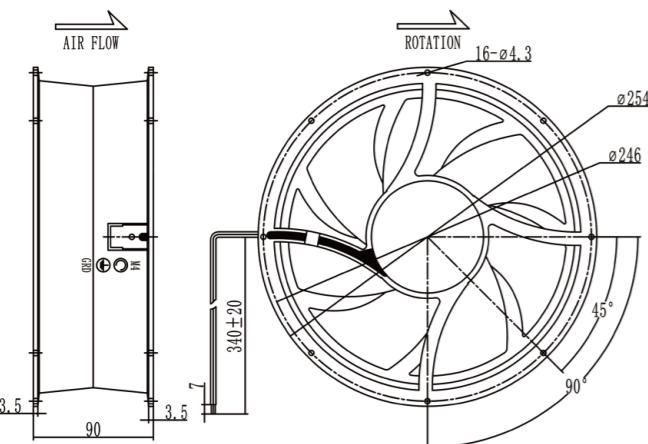
(注: 以上数据仅供参考, 其他参数支持定制)

## 技术参数 / TECHNICAL DATA

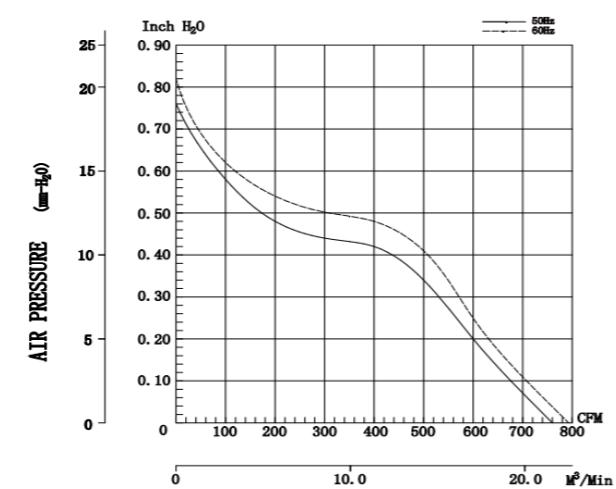
| 型号<br>Model         | Freq<br>频率 | Bearing System<br>轴承 |      | Rated Voltage<br>额定电压 | Rated Voltage<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Flow<br>风量 | Air Pressure<br>风压 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|---------------------|------------|----------------------|------|-----------------------|-----------------------|-------------------|---------------------|----------------|----------------|--------------------|--------------------|-------------------|--------------|
|                     |            | Hz                   | Ball | Sleeve                | VAC                   | A                 | W                   | RPM            | CFM            | m³/min             | mmH₂O              | Pa                | dBA          |
| ZN28080-AC220HBAMLC | 50         | •                    |      | 230                   | 0.55                  | 120               | 2700                | 1090           | 30.9           | 19.8               | 195                | 68                | 2850         |

(注: 以上数据仅供参考, 其他参数支持定制)

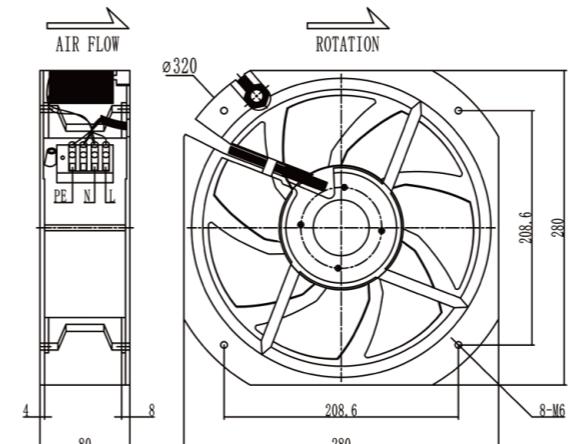
## 外观尺寸 / DIMENSIONS DRAWING



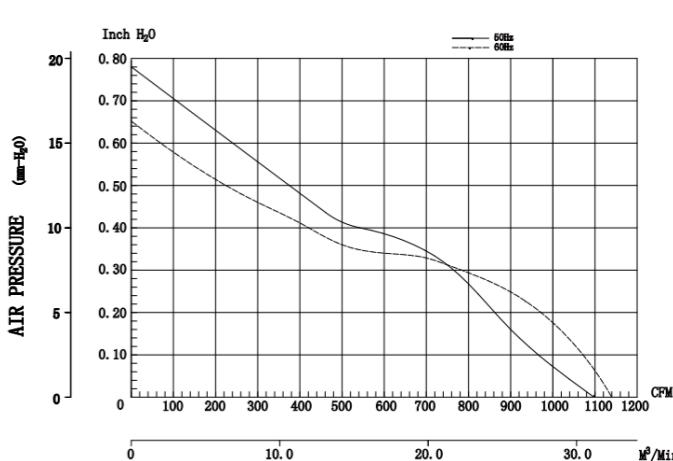
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



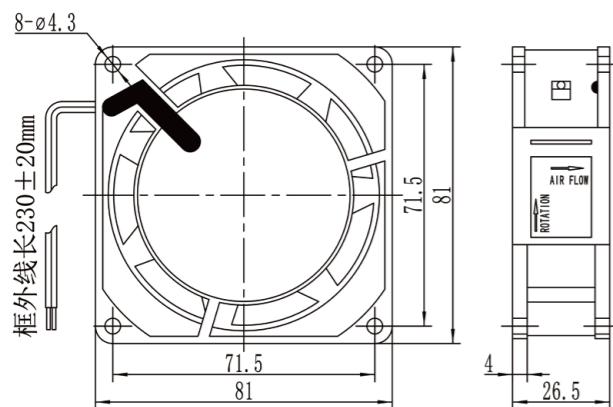
## 技术参数 / TECHNICAL DATA

| 型号<br>Model       | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise<br>Level<br>噪音 | Weight<br>重量 |
|-------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                   |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | CFM                | mmH <sub>2</sub> O   | dBA          |
| ZN8025-AC110HBAPL | 50/60      | •                    | •    | 110~125                  | 0.15                     | 17/15                | 2600/3000              | 21/24          | 4.0/5.5            | 33/55                | 240          |
| ZN8025-AC110MBAPL | 50/60      | •                    | •    | 110~125                  | 0.10                     | 13/10                | 2300/2600              | 18/21          | 2.9/3.4            | 29/33                | 240          |
| ZN8025-AC220HBAPL | 50/60      | •                    | •    | 200~240                  | 0.08                     | 17/15                | 2600/3000              | 21/24          | 4.0/5.5            | 33/35                | 240          |
| ZN8025-AC220MBAPL | 50/60      | •                    | •    | 200~240                  | 0.05                     | 13/10                | 2300/2600              | 18/21          | 2.9/3.4            | 29/33                | 240          |

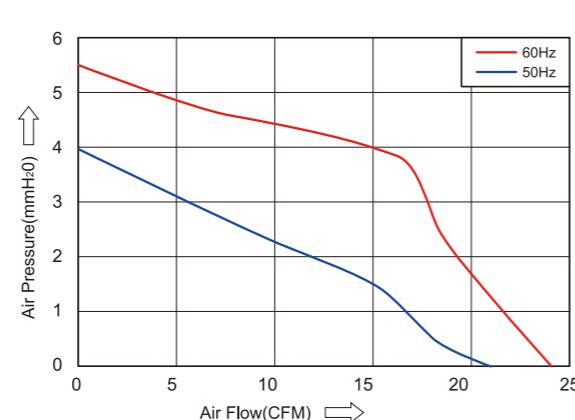
## 技术参数 / TECHNICAL DATA

| 型号<br>Model       | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise<br>Level<br>噪音 | Weight<br>重量 |
|-------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|----------------------|--------------|
|                   |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | CFM                | mmH <sub>2</sub> O   | dBA          |
| ZN8038-AC110HBAPL | 50/60      | •                    | •    | 110~125                  | 0.15                     | 17/15                | 2400/2800              | 23/28          | 2.8/4.4            | 34/36                | 290          |
| ZN8038-AC110MBAPL | 50/60      | •                    | •    | 110~125                  | 0.10                     | 13/10                | 1900/2400              | 20/23          | 2.0/2.2            | 27/34                | 290          |
| ZN8038-AC220HBAPL | 50/60      | •                    | •    | 200~240                  | 0.08                     | 17/15                | 2400/2800              | 23/28          | 2.8/4.4            | 34/36                | 290          |
| ZN8038-AC220MBAPL | 50/60      | •                    | •    | 200~240                  | 0.05                     | 13/10                | 1900/2400              | 20/23          | 2.0/2.2            | 27/34                | 290          |

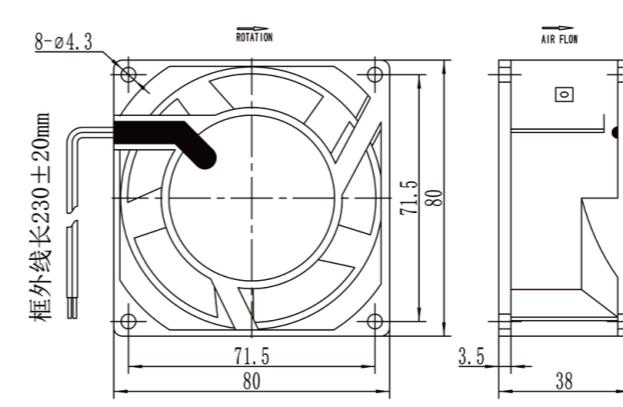
## 外观尺寸 / DIMENSIONS DRAWING



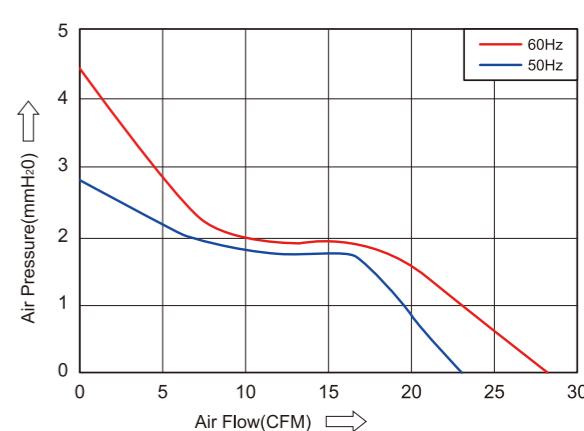
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



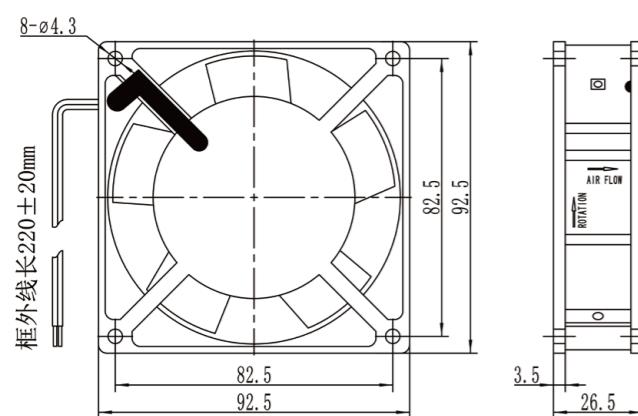
## 技术参数 / TECHNICAL DATA

| 型号<br>Model       | 频率<br>Freq<br>Hz | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VAC | Rated<br>Current<br>额定电流<br>A | Input<br>Power<br>功率<br>W | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|-------------------|------------------|----------------------|--------|---------------------------------|-------------------------------|---------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                   |                  | Ball                 | Sleeve |                                 |                               |                           |                               |                       |  |                             |                   |
| ZN9225-AC110HBAPL | 50/60            | •                    | •      | 110~125                         | 0.15                          | 17/15                     | 2500/3000                     | 24/29                 | 4.5/6.5                                  | 33/35                       | 280               |
| ZN9225-AC110MBAPL | 50/60            | •                    | •      | 110~125                         | 0.10                          | 13/10                     | 2200/2600                     | 21/25                 | 3.0/3.3                                  | 29/33                       | 280               |
| ZN9225-AC220HBAPL | 50/60            | •                    | •      | 200~240                         | 0.08                          | 17/15                     | 2500/3000                     | 24/29                 | 4.5/6.5                                  | 33/35                       | 280               |
| ZN9225-AC220MBAPL | 50/60            | •                    | •      | 200~240                         | 0.05                          | 13/10                     | 2200/2600                     | 21/25                 | 3.0/3.3                                  | 29/33                       | 280               |

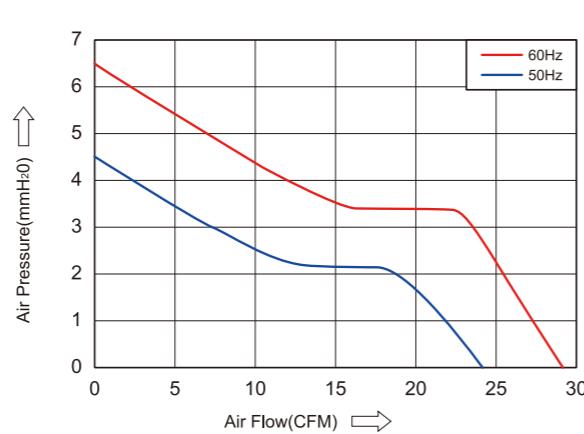
## 技术参数 / TECHNICAL DATA

| 型号<br>Model       | 频率<br>Freq<br>Hz | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VAC | Rated<br>Current<br>额定电流<br>A | Input<br>Power<br>功率<br>W | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|-------------------|------------------|----------------------|--------|---------------------------------|-------------------------------|---------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                   |                  | Ball                 | Sleeve |                                 |                               |                           |                               |                       |  |                             |                   |
| ZN9238-AC110HBAPL | 50/60            | •                    | •      | 110~125                         | 0.15                          | 17/15                     | 2400/2800                     | 39/46                 | 3.6/5.2                                  | 34/36                       | 340               |
| ZN9238-AC110MBAPL | 50/60            | •                    | •      | 110~125                         | 0.10                          | 13/10                     | 1900/2400                     | 35/39                 | 2.9/3.2                                  | 27/34                       | 340               |
| ZN9238-AC220HBAPL | 50/60            | •                    | •      | 200~240                         | 0.08                          | 17/15                     | 2400/2800                     | 39/46                 | 3.6/5.2                                  | 34/36                       | 340               |
| ZN9238-AC220MBAPL | 50/60            | •                    | •      | 200~240                         | 0.05                          | 13/10                     | 1900/2400                     | 35/39                 | 2.9/3.2                                  | 27/34                       | 340               |

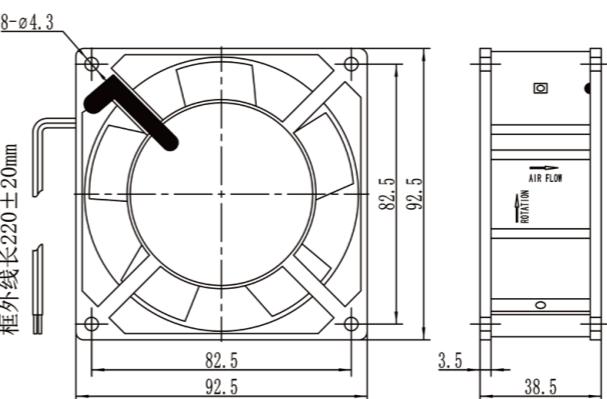
## 外观尺寸 / DIMENSIONS DRAWING



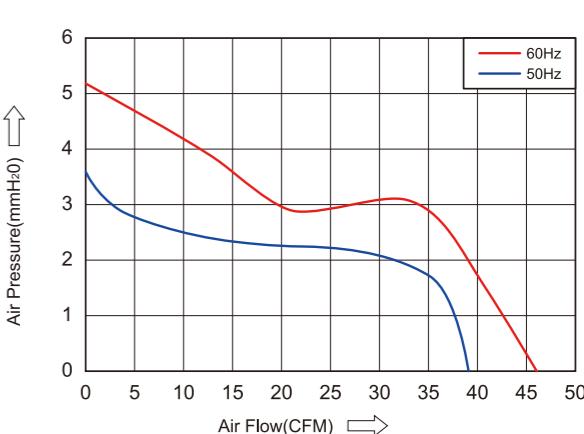
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)功能选择: Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)功能选择: Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

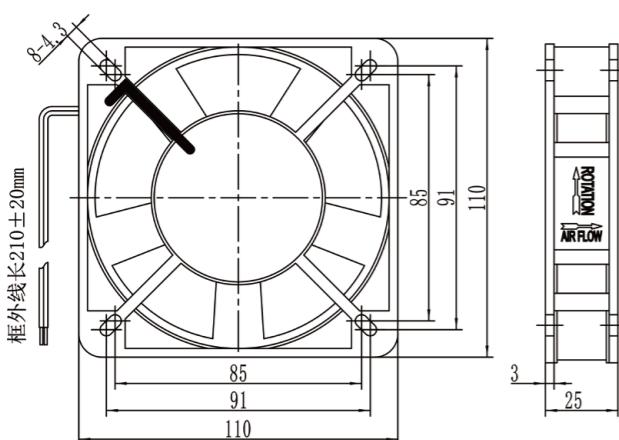
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音  | Weight<br>重量 |
|--------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|--------------------|--------------|
|                    |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | CFM                | mmH <sub>2</sub> O | dBA          |
| ZN11025-AC110HBAPL | 50/60      | •                    | •    | 110~125                  | 0.15                     | 17/15                | 2300/2700              | 39/45          | 3.9/4.1            | 35/37              | 300          |
| ZN11025-AC110MBAPL | 50/60      | •                    | •    | 110~125                  | 0.10                     | 12/10                | 1800/2400              | 30/37          | 2.2/2.5            | 30/35              | 300          |
| ZN11025-AC220HBAPL | 50/60      | •                    | •    | 200~240                  | 0.10                     | 17/15                | 2300/2700              | 39/45          | 3.9/4.1            | 35/37              | 300          |
| ZN11025-AC220MBAPL | 50/60      | •                    | •    | 200~240                  | 0.07                     | 12/10                | 1800/2400              | 30/37          | 2.2/2.5            | 30/35              | 300          |

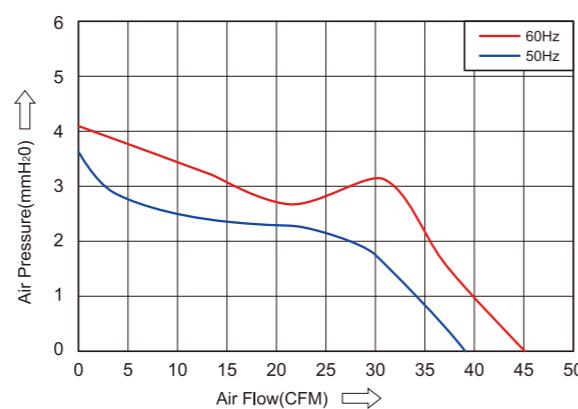
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音  | Weight<br>重量 |
|--------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|--------------------|--------------|
|                    |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | CFM                | mmH <sub>2</sub> O | g            |
| ZN12025-AC110HBAPL | 50/60      | •                    | •    | 110~125                  | 0.15                     | 17/15                | 2300/2700              | 58/66          | 3.8/5.0            | 35/37              | 320          |
| ZN12025-AC110MBAPL | 50/60      | •                    | •    | 110~125                  | 0.10                     | 12/10                | 1800/2400              | 47/60          | 1.8/2.0            | 30/35              | 320          |
| ZN12025-AC220HBAPL | 50/60      | •                    | •    | 200~240                  | 0.08                     | 17/15                | 2300/2700              | 58/66          | 3.8/5.0            | 35/37              | 320          |
| ZN12025-AC220MBAPL | 50/60      | •                    | •    | 200~240                  | 0.05                     | 12/10                | 1800/2400              | 47/60          | 1.8/2.0            | 30/35              | 320          |

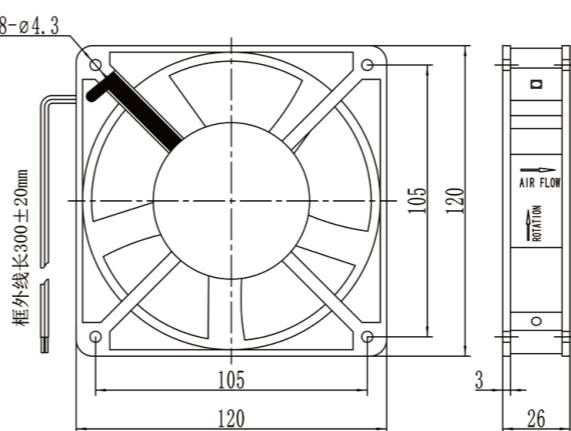
## 外观尺寸 / DIMENSIONS DRAWING



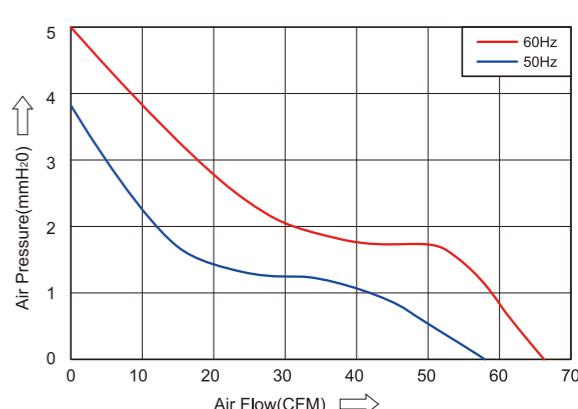
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)功能选择: Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)线材: UL Type  
(Lead Wire)工作模式: S1  
(Mode of operation)工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)功能选择: Thermal control  
(Available Features)振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)防护等级: 电机的防护等级为IP44  
(Type of protection)

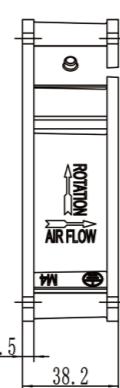
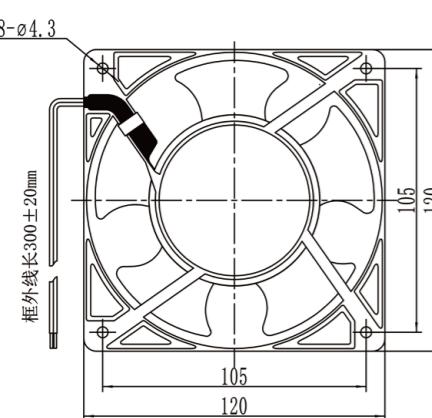
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率 | Bearing System<br>轴承 |      | Rated Voltage<br>额定电压 | Rated Current<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音  | Weight<br>重量 |
|--------------------|------------|----------------------|------|-----------------------|-----------------------|-------------------|---------------------|----------------|--------------------|--------------------|--------------|
|                    |            | Hz                   | Ball | Sleeve                | VAC                   | A                 | W                   | RPM            | CFM                | mmH <sub>2</sub> O | dBA          |
| ZN12038-AC110HBAPL | 50/60      | •                    | •    | 110~125               | 0.22                  | 23/21             | 2600/3000           | 80/91          | 6.8/8.5            | 42/46              | 530          |
| ZN12038-AC110MBAPL | 50/60      | •                    | •    | 110~125               | 0.15                  | 15/14             | 2400/2700           | 72/83          | 5.1/6.8            | 39/42              | 530          |
| ZN12038-AC110LBAPL | 50/60      | •                    | •    | 110~125               | 0.10                  | 10/9              | 2100/2400           | 66/72          | 3.2/5.1            | 35/39              | 530          |
| ZN12038-AC220HBAPL | 50/60      | •                    | •    | 200~240               | 0.16                  | 23/21             | 2600/3000           | 80/91          | 6.8/8.5            | 42/46              | 530          |
| ZN12038-AC220MBAPL | 50/60      | •                    | •    | 200~240               | 0.14                  | 15/14             | 2400/2700           | 72/83          | 5.1/6.8            | 39/42              | 530          |
| ZN12038-AC220LBAPL | 50/60      | •                    | •    | 200~240               | 0.10                  | 10/9              | 2100/2400           | 66/72          | 3.2/5.1            | 35/39              | 530          |
| ZN12038-AC380HBAPL | 50/60      | •                    | •    | 380                   | 0.06                  | 23/21             | 2600/3000           | 80/91          | 6.8/8.5            | 42/46              | 530          |

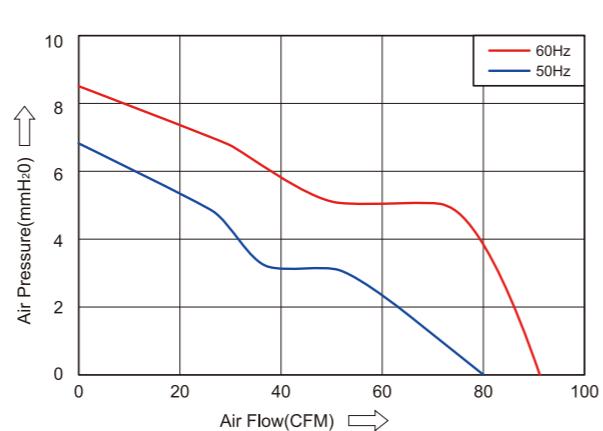
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率 | Bearing System<br>轴承 |      | Rated Voltage<br>额定电压 | Rated Current<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音  | Weight<br>重量 |
|--------------------|------------|----------------------|------|-----------------------|-----------------------|-------------------|---------------------|----------------|--------------------|--------------------|--------------|
|                    |            | Hz                   | Ball | Sleeve                | VAC                   | A                 | W                   | RPM            | CFM                | mmH <sub>2</sub> O | g            |
| ZN13538-AC110HBAPL | 50/60      | •                    | •    | 110~125               | 0.22                  | 23/21             | 2600/3000           | 115/141        | 6.5/6.8            | 43/45              | 570          |
| ZN13538-AC110MBAPL | 50/60      | •                    | •    | 110~125               | 0.18                  | 15/14             | 2400/2700           | 107/120        | 4.3/5.1            | 41/43              | 570          |
| ZN13538-AC110LBAPL | 50/60      | •                    | •    | 110~125               | 0.12                  | 10/9              | 2100/2400           | 93/107         | 1.8/3.0            | 39/41              | 570          |
| ZN13538-AC220HBAPL | 50/60      | •                    | •    | 200~240               | 0.14                  | 23/21             | 2600/3000           | 115/141        | 6.5/6.8            | 43/45              | 570          |
| ZN13538-AC220MBAPL | 50/60      | •                    | •    | 200~240               | 0.10                  | 15/14             | 2400/2700           | 107/120        | 4.3/5.1            | 41/43              | 570          |
| ZN13538-AC220LBAPL | 50/60      | •                    | •    | 200~240               | 0.07                  | 10/9              | 2100/2400           | 93/107         | 1.8/3.0            | 39/41              | 570          |
| ZN13538-AC380HBAPL | 50/60      | •                    | •    | 380                   | 0.06                  | 23/21             | 2600/3000           | 115/141        | 6.5/6.8            | 43/45              | 570          |

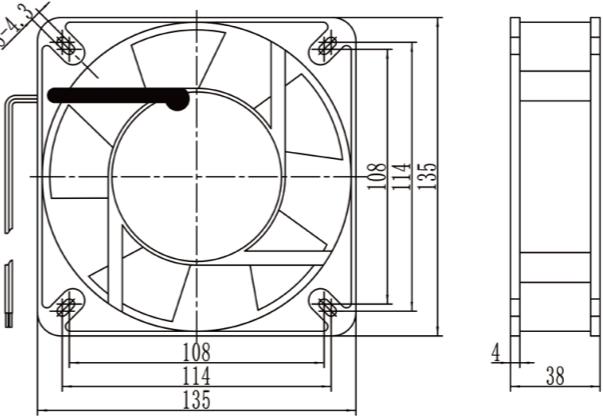
## 外观尺寸 / DIMENSIONS DRAWING



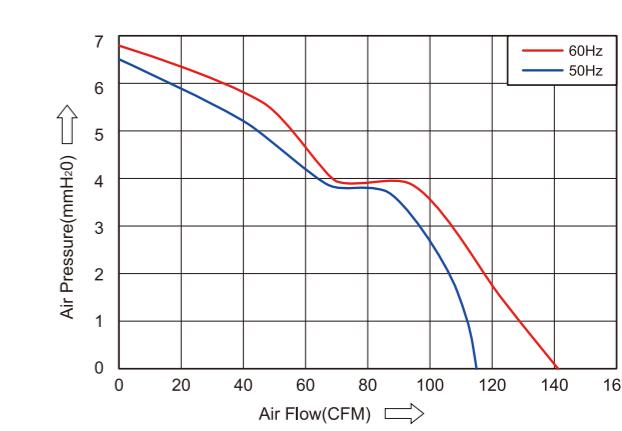
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



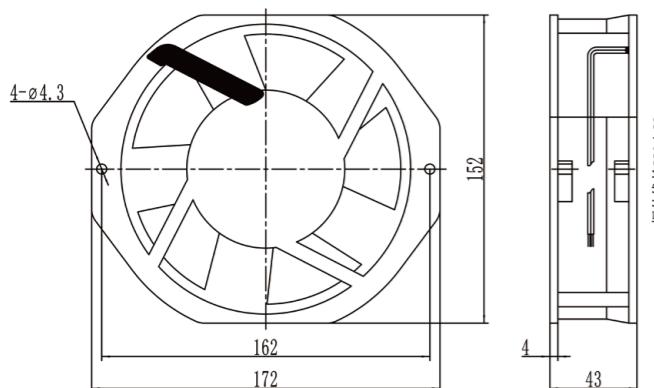
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率<br>Hz | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VAC | Rated<br>Current<br>额定电流<br>A | Input<br>Power<br>功率<br>W | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|--------------------|------------------|----------------------|--------|---------------------------------|-------------------------------|---------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                    |                  | Ball                 | Sleeve |                                 |                               |                           |                               |                       |  |                             |                   |
| ZN17238-AC110MBAPL | 50/60            | •                    | •      | 110~125                         | 0.26/0.25                     | 33/30                     | 2500/3000                     | 166/198               | 16.7/19.5                                | 57/61                       | 760               |
| ZN17238-AC220MBAPL | 50/60            | •                    | •      | 200~240                         | 0.17/0.16                     | 33/30                     | 2500/3000                     | 166/198               | 16.7/19.5                                | 57/61                       | 760               |

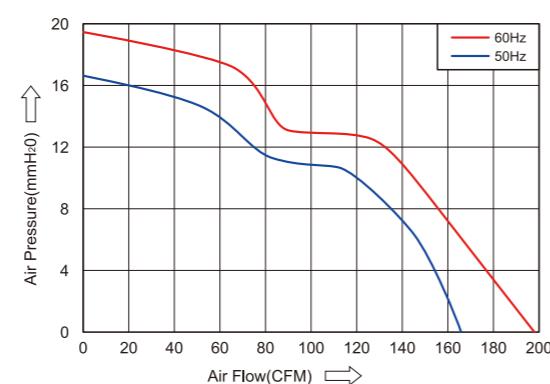
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率<br>Hz | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VAC | Rated<br>Current<br>额定电流<br>A | Input<br>Power<br>功率<br>W | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|--------------------|------------------|----------------------|--------|---------------------------------|-------------------------------|---------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                    |                  | Ball                 | Sleeve |                                 |                               |                           |                               |                       |  |                             |                   |
| ZN15050-AC110HBAPL | 50/60            | •                    | •      | 110~125                         | 0.45                          | 38/36                     | 2600/3000                     | 170/196               | 11.5/14.0                                | 49/56                       | 800               |
| ZN15050-AC110MBAPL | 50/60            | •                    | •      | 110~125                         | 0.30                          | 28/27                     | 2400/2600                     | 155/170               | 7.5/9.7                                  | 45/49                       | 800               |
| ZN15050-AC110LBAPL | 50/60            | •                    | •      | 110~125                         | 0.15                          | 21/20                     | 2100/2400                     | 137/155               | 3.0/3.9                                  | 39/45                       | 800               |
| ZN15050-AC220HBAPL | 50/60            | •                    | •      | 200~240                         | 0.23                          | 38/36                     | 2600/3000                     | 170/196               | 11.5/14.0                                | 49/56                       | 800               |
| ZN15050-AC220MBAPL | 50/60            | •                    | •      | 200~240                         | 0.18                          | 28/27                     | 2400/2600                     | 155/170               | 7.5/9.7                                  | 45/49                       | 800               |
| ZN15050-AC220LBAPL | 50/60            | •                    | •      | 200~240                         | 0.12                          | 21/20                     | 2100/2400                     | 137/155               | 3.0/3.9                                  | 39/45                       | 800               |
| ZN15050-AC380HBAPL | 50/60            | •                    | •      | 380                             | 0.13                          | 38/36                     | 2600/3000                     | 170/196               | 11.5/14.0                                | 49/56                       | 800               |

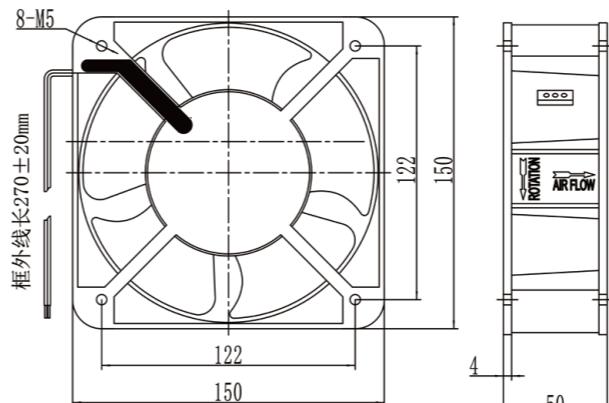
## 外观尺寸 / DIMENSIONS DRAWING



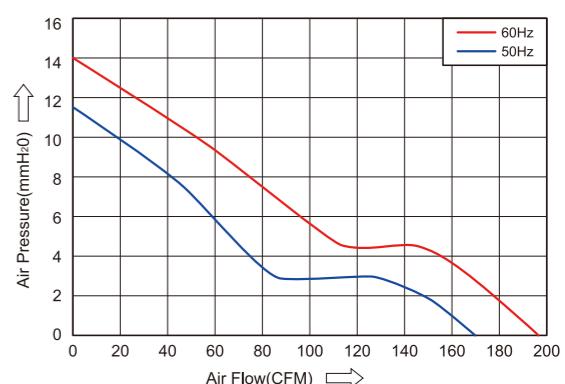
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

防护等级: 电机的防护等级为IP44  
(Type of protection)



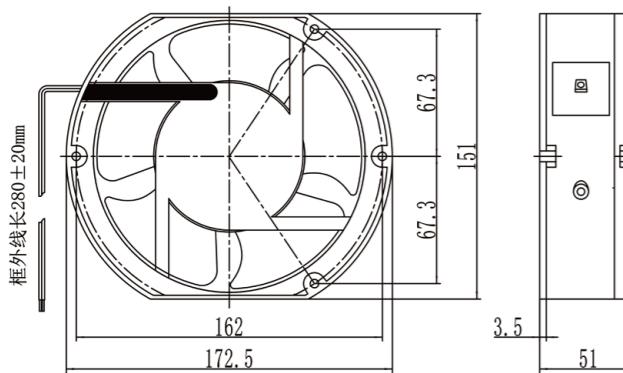
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率 | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Rated Current<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|--------------------|------------|----------------------|--------|-----------------------|-----------------------|-------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                    | Hz         | Ball                 | Sleeve | VAC                   | A                     | W                 | RPM                 | CFM            | mmH <sub>2</sub> O | dBA               | g            |
| ZN17251-AC110HBAPL | 50/60      | •                    | •      | 110~125               | 0.45                  | 38/36             | 2600/3000           | 170/196        | 11.5/14.0          | 49/56             | 800          |
| ZN17251-AC110MBAPL | 50/60      | •                    | •      | 110~125               | 0.30                  | 28/27             | 2400/2600           | 155/170        | 7.5/9.7            | 45/49             | 800          |
| ZN17251-AC110LBAPL | 50/60      | •                    | •      | 110~125               | 0.15                  | 21/20             | 2100/2400           | 137/155        | 3.0/3.9            | 39/45             | 800          |
| ZN17251-AC220HBAPL | 50/60      | •                    | •      | 200~240               | 0.23                  | 38/36             | 2600/3000           | 170/196        | 11.5/14.0          | 49/56             | 800          |
| ZN17251-AC220MBAPL | 50/60      | •                    | •      | 200~240               | 0.18                  | 28/27             | 2400/2600           | 155/170        | 7.5/9.7            | 45/49             | 800          |
| ZN17251-AC220LBAPL | 50/60      | •                    | •      | 200~240               | 0.12                  | 21/20             | 2100/2400           | 137/155        | 3.0/3.9            | 39/45             | 800          |
| ZN17251-AC380HBAPL | 50/60      | •                    | •      | 380                   | 0.13                  | 38/36             | 2600/3000           | 170/196        | 11.5/14.0          | 49/56             | 800          |

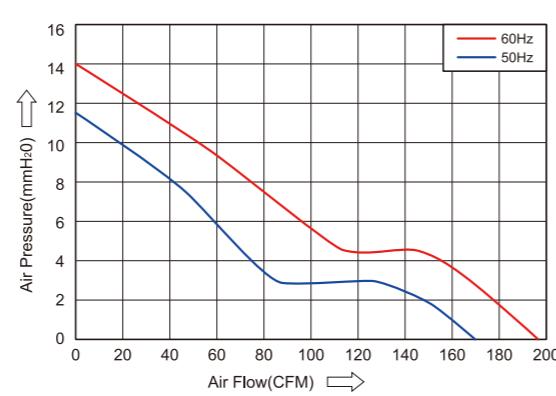
## 技术参数 / TECHNICAL DATA

| 型号<br>Model          | Freq<br>频率 | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Rated Current<br>额定电流 | Input Power<br>功率 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|----------------------|------------|----------------------|--------|-----------------------|-----------------------|-------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                      | Hz         | Ball                 | Sleeve | VAC                   | A                     | W                 | RPM                 | CFM            | mmH <sub>2</sub> O | dBA               | g            |
| ZN17251-AC110HBAPL正圆 | 50/60      | •                    | •      | 110~125               | 0.45                  | 38/36             | 2600/3000           | 170/196        | 11.5/14.0          | 49/56             | 800          |
| ZN17251-AC110MBAPL正圆 | 50/60      | •                    | •      | 110~125               | 0.30                  | 28/27             | 2400/2600           | 155/170        | 7.5/9.7            | 45/49             | 800          |
| ZN17251-AC110LBAPL正圆 | 50/60      | •                    | •      | 110~125               | 0.15                  | 21/20             | 2100/2400           | 137/155        | 3.0/3.9            | 39/45             | 800          |
| ZN17251-AC220HBAPL正圆 | 50/60      | •                    | •      | 200~240               | 0.23                  | 38/36             | 2600/3000           | 170/196        | 11.5/14.0          | 49/56             | 800          |
| ZN17251-AC220MBAPL正圆 | 50/60      | •                    | •      | 200~240               | 0.18                  | 28/27             | 2400/2600           | 155/170        | 7.5/9.7            | 45/49             | 800          |
| ZN17251-AC220LBAPL正圆 | 50/60      | •                    | •      | 200~240               | 0.12                  | 21/20             | 2100/2400           | 137/155        | 3.0/3.9            | 39/45             | 800          |
| ZN17251-AC380HBAPL正圆 | 50/60      | •                    | •      | 380                   | 0.13                  | 38/36             | 2600/3000           | 170/196        | 11.5/14.0          | 49/56             | 800          |

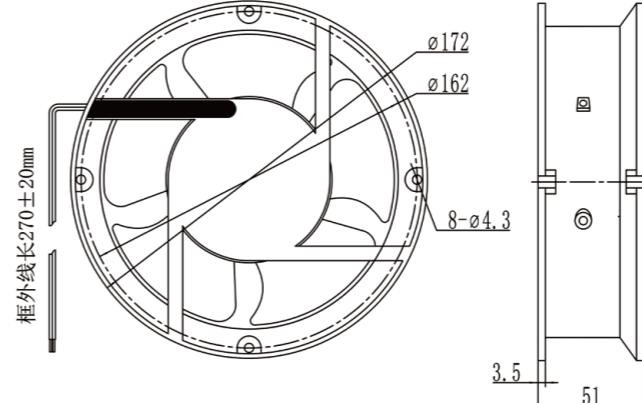
## 外观尺寸 / DIMENSIONS DRAWING



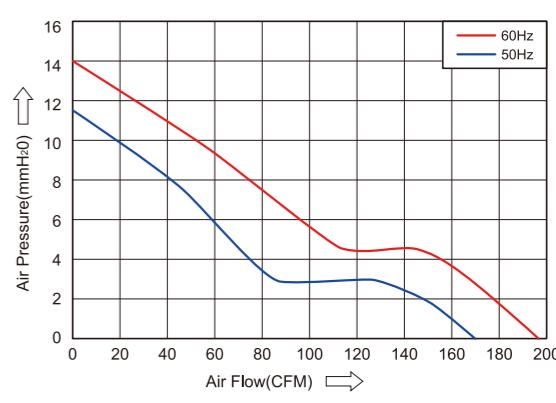
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

**绝缘等级:** Class B  
(Insulation)

**材质:** Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

**线材:** UL Type  
(Lead Wire)

**工作模式:** S1  
(Mode of operation)

**工作环境:** -10°C~70°C, 35%~85% RH  
(Operation Temperature)

**储存环境:** -40°C~80°C, 35%~85% RH  
(Storage Temperature)

**功能选择:** Thermal control  
(Available Features)

**振动:** 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

**防护等级:** 电机的防护等级为IP44  
(Type of protection)



## 通用规范 / GENERAL SPECIFICATIONS

**绝缘等级:** Class B  
(Insulation)

**材质:** Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

**线材:** UL Type  
(Lead Wire)

**工作模式:** S1  
(Mode of operation)

**工作环境:** -10°C~70°C, 35%~85% RH  
(Operation Temperature)

**储存环境:** -40°C~80°C, 35%~85% RH  
(Storage Temperature)

**功能选择:** Thermal control  
(Available Features)

**振动:** 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

**防护等级:** 电机的防护等级为IP44  
(Type of protection)



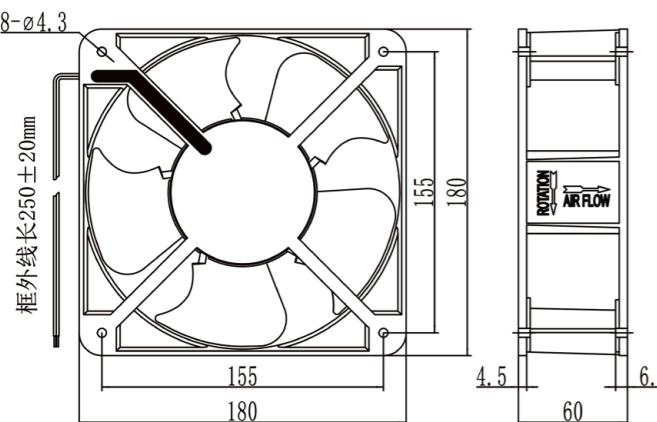
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音  | Weight<br>重量 |
|--------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|--------------------|--------------|
|                    |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | CFM                | mmH <sub>2</sub> O | dBA          |
| ZN18060-AC110MBAPL | 50/60      | •                    |      | 110~125                  | 0.70                     | 50                   | 2700                   | 350            | 18.5               | 60                 | 950          |
| ZN18060-AC220MBAPL | 50/60      | •                    |      | 200~240                  | 0.35                     | 50                   | 2700                   | 350            | 18.5               | 60                 | 950          |

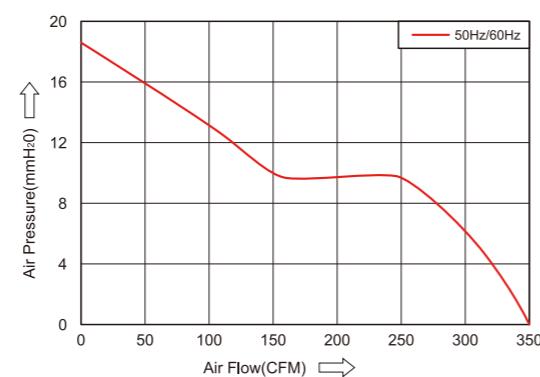
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率 | Bearing System<br>轴承 |      | Rated<br>Voltage<br>额定电压 | Rated<br>Current<br>额定电流 | Input<br>Power<br>功率 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音  | Weight<br>重量 |      |
|--------------------|------------|----------------------|------|--------------------------|--------------------------|----------------------|------------------------|----------------|--------------------|--------------------|--------------|------|
|                    |            | Hz                   | Ball | Sleeve                   | VAC                      | A                    | W                      | RPM            | CFM                | mmH <sub>2</sub> O | dBA          | g    |
| ZN20060-AC110MBAPL | 50         | •                    |      | 110~125                  | 0.80                     | 65                   | 2700                   | 420            | 22.0               | 54                 | 1540         |      |
| ZN20060-AC220MBAPL | 50         | •                    |      | 200~240                  | 0.45                     | 65                   | 2700                   | 420            | 22.0               | 54                 | 1540         |      |
| ZN20060-AC380MBAPL | 50         | •                    |      |                          | 380                      | 0.30                 | 65                     | 2700           | 420                | 22.0               | 54           | 1540 |

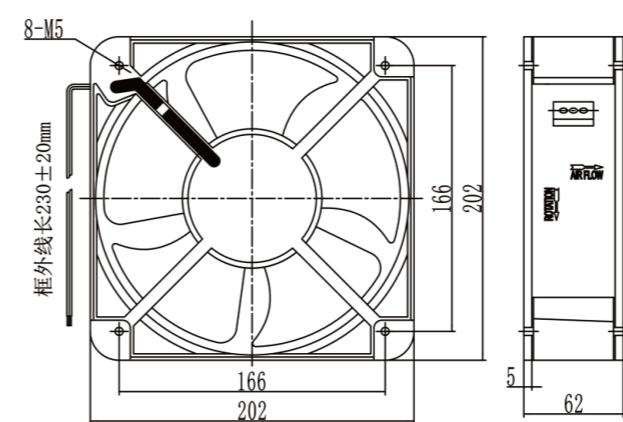
## 外观尺寸 / DIMENSIONS DRAWING



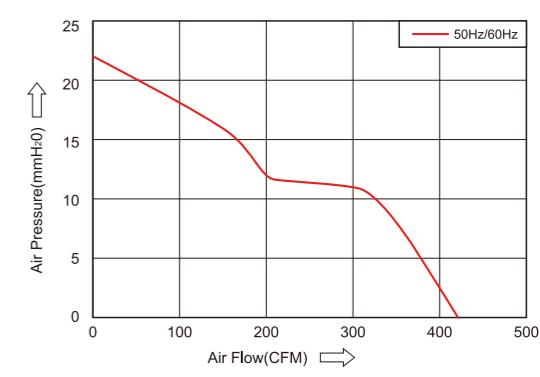
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

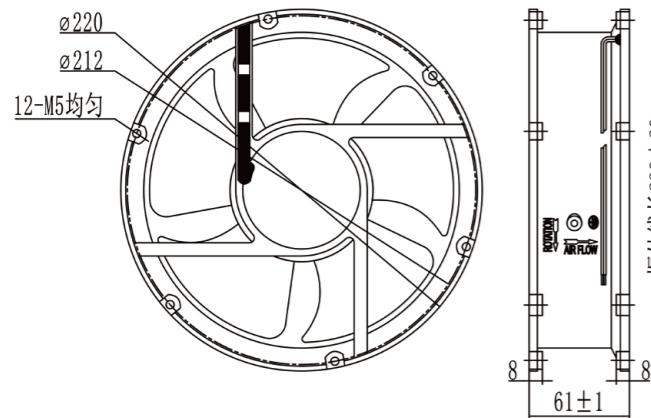
防护等级: 电机的防护等级为IP44  
(Type of protection)



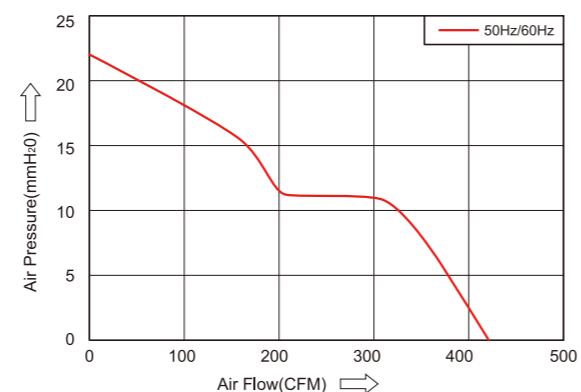
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率<br>Hz | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VAC | Rated<br>Current<br>额定电流<br>A | Input<br>Power<br>功率<br>W | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|--------------------|------------------|----------------------|--------|---------------------------------|-------------------------------|---------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                    |                  | Ball                 | Sleeve |                                 |                               |                           |                               |                       |  |                             |                   |
| ZN22060-AC110MBAPL | 50               | •                    |        | 110~125                         | 0.80                          | 65                        | 2700                          | 420                   | 22.0                                     | 54                          | 1540              |
| ZN22060-AC220MBAPL | 50               | •                    |        | 200~240                         | 0.45                          | 65                        | 2700                          | 420                   | 22.0                                     | 54                          | 1540              |
| ZN22060-AC380MBAPL | 50               | •                    |        | 380                             | 0.30                          | 65                        | 2700                          | 420                   | 22.0                                     | 54                          | 1540              |

## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

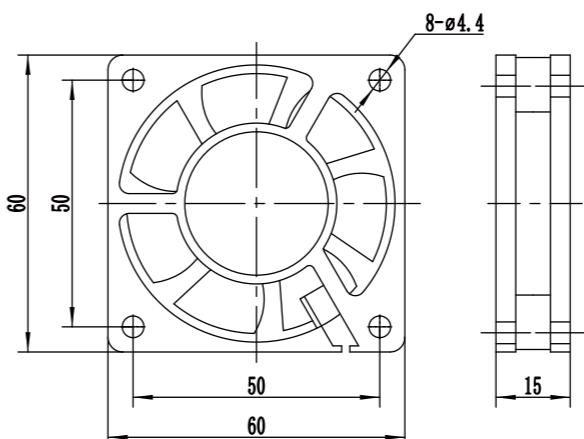
功能选择: IPX6 / PWM / FG & RD / Thermal control /  
Autoreset / Slow startup  
(Available Features)



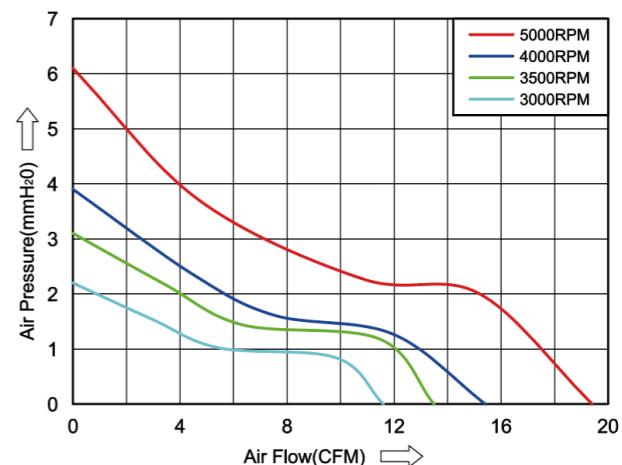
## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VDC | Operation<br>Voltage<br>安规电压<br>VDC | Rated<br>Current<br>额定电流<br>A | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|------------------------|----------------------|--------|---------------------------------|-------------------------------------|-------------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                        | Ball                 | Sleeve |                                 |                                     |                               |                               |                       |  |                             |                   |
| ZN6015-DC5HB(S)PPL(T)  | •                    | •      |                                 |                                     | 0.30                          | 4000                          | 15.4                  | 3.9                                      | 32                          |                   |
| ZN6015-DC5MB(S)PPL(T)  | •                    | •      | 5                               | 4.5~5.5                             | 0.20                          | 3500                          | 13.5                  | 3.1                                      | 29                          | 44                |
| ZN6015-DC5LB(S)PPL(T)  | •                    | •      |                                 |                                     | 0.13                          | 3000                          | 11.6                  | 2.2                                      | 24                          |                   |
| ZN6015-DC12HB(S)PPL(T) | •                    | •      |                                 |                                     | 0.28                          | 5000                          | 19.4                  | 6.1                                      | 37                          |                   |
| ZN6015-DC12MB(S)PPL(T) | •                    | •      | 12                              | 6.0~13.8                            | 0.18                          | 4000                          | 15.4                  | 3.9                                      | 32                          | 44                |
| ZN6015-DC12LB(S)PPL(T) | •                    | •      |                                 |                                     | 0.10                          | 3000                          | 11.6                  | 2.2                                      | 24                          |                   |
| ZN6015-DC24HB(S)PPL(T) | •                    | •      |                                 |                                     | 0.15                          | 5000                          | 19.4                  | 6.1                                      | 37                          |                   |
| ZN6015-DC24MB(S)PPL(T) | •                    | •      | 24                              | 12.0~27.6                           | 0.10                          | 4000                          | 15.4                  | 3.9                                      | 32                          | 44                |
| ZN6015-DC24LB(S)PPL(T) | •                    | •      |                                 |                                     | 0.06                          | 3000                          | 11.6                  | 2.2                                      | 24                          |                   |

## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

功能选择: Thermal control  
(Available Features)

振动: 风机振动速度有效值按照JB/T8689标准规定  
(Vibration of the fan)

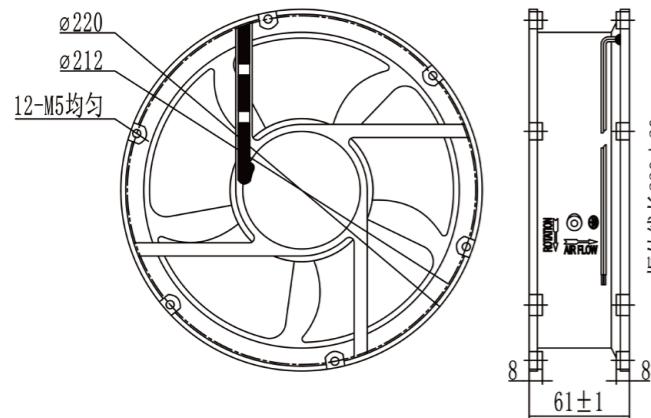
防护等级: 电机的防护等级为IP44  
(Type of protection)



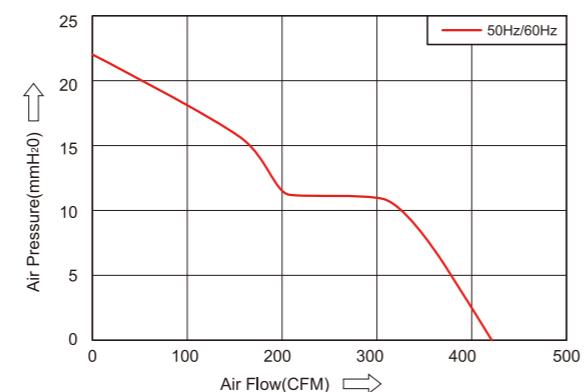
## 技术参数 / TECHNICAL DATA

| 型号<br>Model        | Freq<br>频率<br>Hz | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VAC | Rated<br>Current<br>额定电流<br>A | Input<br>Power<br>功率<br>W | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|--------------------|------------------|----------------------|--------|---------------------------------|-------------------------------|---------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                    |                  | Ball                 | Sleeve |                                 |                               |                           |                               |                       |  |                             |                   |
| ZN22060-AC110MBAPL | 50               | •                    |        | 110~125                         | 0.80                          | 65                        | 2700                          | 420                   | 22.0                                     | 54                          | 1540              |
| ZN22060-AC220MBAPL | 50               | •                    |        | 200~240                         | 0.45                          | 65                        | 2700                          | 420                   | 22.0                                     | 54                          | 1540              |
| ZN22060-AC380MBAPL | 50               | •                    |        | 380                             | 0.30                          | 65                        | 2700                          | 420                   | 22.0                                     | 54                          | 1540              |

## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10°C~70°C, 35%~85% RH  
(Operation Temperature)

储存环境: -40°C~80°C, 35%~85% RH  
(Storage Temperature)

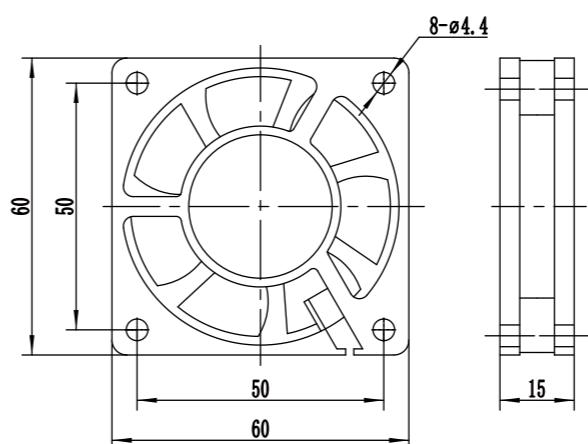
功能选择: IPX6 / PWM / FG & RD / Thermal control /  
Autoreset / Slow startup  
(Available Features)



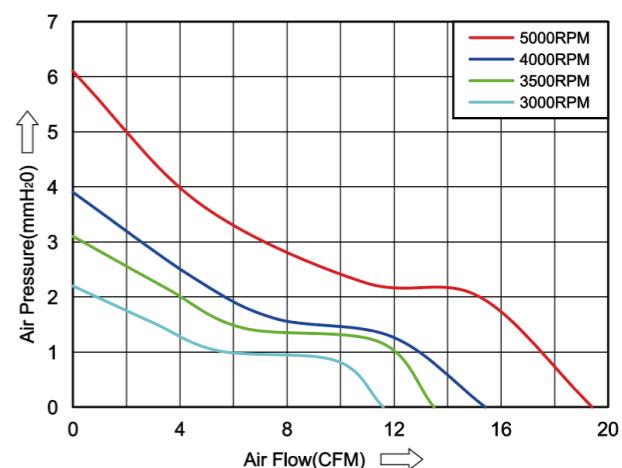
## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压<br>VDC | Operation<br>Voltage<br>安规电压<br>VDC | Rated<br>Current<br>额定电流<br>A | Rated<br>Speed<br>额定速度<br>RPM | Air Flow<br>风量<br>CFM | Air Pressure<br>风压<br>mmH <sub>2</sub> O | Noise<br>Level<br>噪音<br>dBA | Weight<br>重量<br>g |
|------------------------|----------------------|--------|---------------------------------|-------------------------------------|-------------------------------|-------------------------------|-----------------------|--|-----------------------------|-------------------|
|                        | Ball                 | Sleeve |                                 |                                     |                               |                               |                       |  |                             |                   |
| ZN6015-DC5HB(S)PPL(T)  | •                    | •      |                                 |                                     | 0.30                          | 4000                          | 15.4                  | 3.9                                      | 32                          |                   |
| ZN6015-DC5MB(S)PPL(T)  | •                    | •      | 5                               | 4.5~5.5                             | 0.20                          | 3500                          | 13.5                  | 3.1                                      | 29                          | 44                |
| ZN6015-DC5LB(S)PPL(T)  | •                    | •      |                                 |                                     | 0.13                          | 3000                          | 11.6                  | 2.2                                      | 24                          |                   |
| ZN6015-DC12HB(S)PPL(T) | •                    | •      |                                 |                                     | 0.28                          | 5000                          | 19.4                  | 6.1                                      | 37                          |                   |
| ZN6015-DC12MB(S)PPL(T) | •                    | •      | 12                              | 6.0~13.8                            | 0.18                          | 4000                          | 15.4                  | 3.9                                      | 32                          | 44                |
| ZN6015-DC12LB(S)PPL(T) | •                    | •      |                                 |                                     | 0.10                          | 3000                          | 11.6                  | 2.2                                      | 24                          |                   |
| ZN6015-DC24HB(S)PPL(T) | •                    | •      |                                 |                                     | 0.15                          | 5000                          | 19.4                  | 6.1                                      | 37                          |                   |
| ZN6015-DC24MB(S)PPL(T) | •                    | •      | 24                              | 12.0~27.6                           | 0.10                          | 4000                          | 15.4                  | 3.9                                      | 32                          | 44                |
| ZN6015-DC24LB(S)PPL(T) | •                    | •      |                                 |                                     | 0.06                          | 3000                          | 11.6                  | 2.2                                      | 24                          |                   |

## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

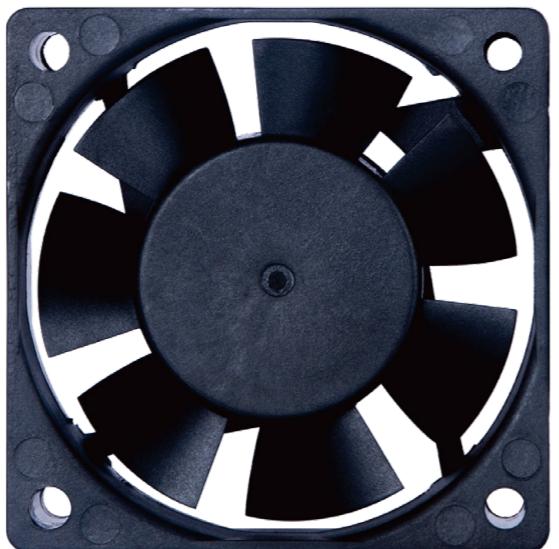
线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

功能选择: IPX6 / PWM / FG&RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

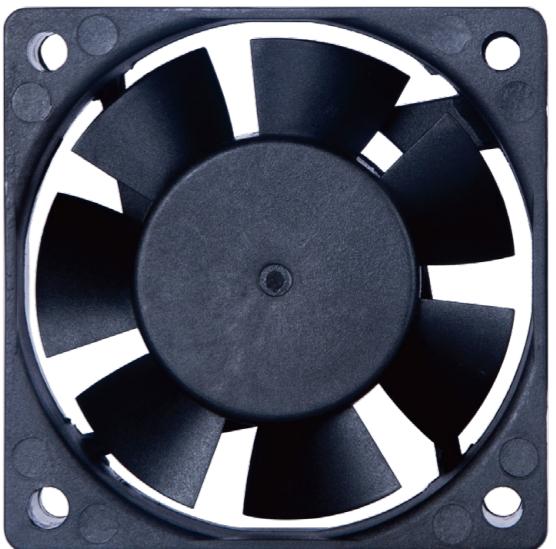
线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

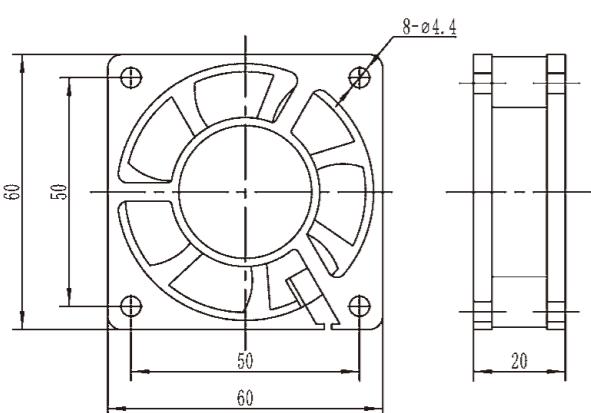
功能选择: IPX6 / PWM / FG&RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



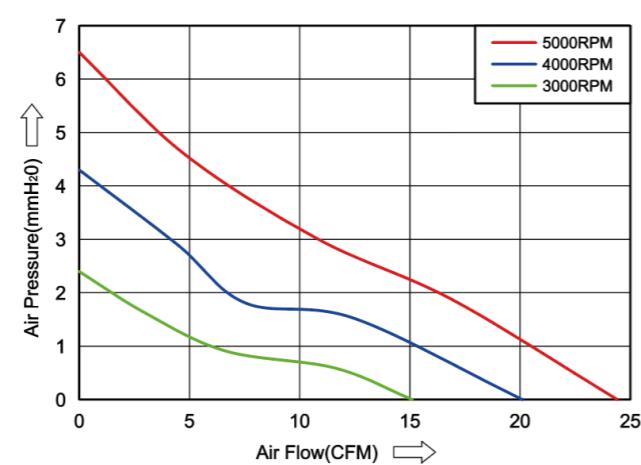
## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                        | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN6020-DC5HB(S)PPL(T)  | .                    | .      | 5                     | 4.5-5.5                   | 0.35                  | 5000                | 24.4           | 6.5                | 38                | 49           |
| ZN6020-DC5MB(S)PPL(T)  | .                    | .      |                       |                           | 0.25                  | 4000                | 20.1           | 4.3                | 32                |              |
| ZN6020-DC5LB(S)PPL(T)  | .                    | .      |                       |                           | 0.15                  | 3000                | 15.1           | 2.4                | 24                |              |
| ZN6020-DC12HB(S)PPL(T) | .                    | .      | 12                    | 6.0-13.8                  | 0.25                  | 5000                | 24.4           | 6.5                | 38                | 49           |
| ZN6020-DC12MB(S)PPL(T) | .                    | .      |                       |                           | 0.18                  | 4000                | 20.1           | 4.3                | 32                |              |
| ZN6020-DC12LB(S)PPL(T) | .                    | .      |                       |                           | 0.12                  | 3000                | 15.1           | 2.4                | 24                |              |
| ZN6020-DC24HB(S)PPL(T) | .                    | .      | 24                    | 12.0-27.6                 | 0.15                  | 5000                | 24.4           | 6.5                | 38                | 49           |
| ZN6020-DC24MB(S)PPL(T) | .                    | .      |                       |                           | 0.12                  | 4000                | 20.1           | 4.3                | 32                |              |
| ZN6020-DC24LB(S)PPL(T) | .                    | .      |                       |                           | 0.10                  | 3000                | 15.1           | 2.4                | 24                |              |

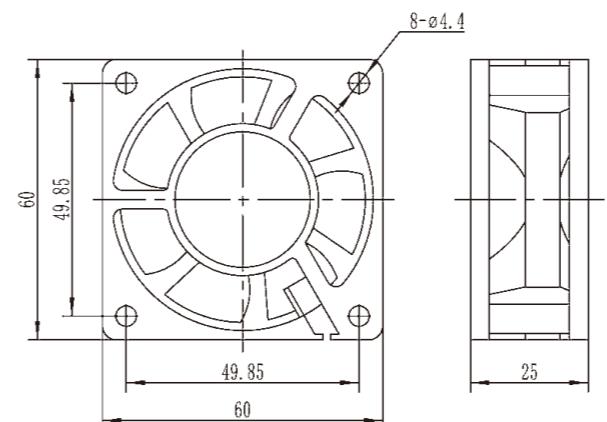
## 外观尺寸 / DIMENSIONS DRAWING



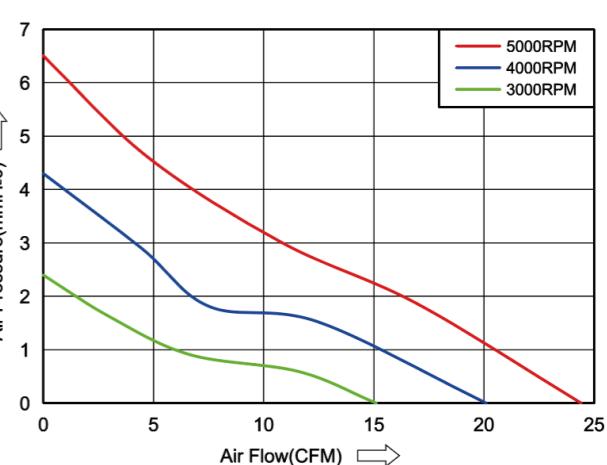
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

功能选择: IPX6 / PWM / FG& RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

功能选择: IPX6 / PWM / FG& RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



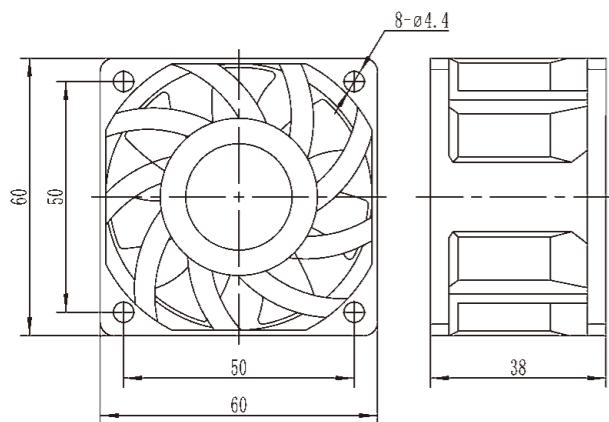
## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                        | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN6038-DC12HB(S)PPL(T) | •                    | •      | 12                    | 7.0-13.8                  | 1.0                   | 9000                | 49.9           | 22.8               | 60                | 85           |
| ZN6038-DC12MB(S)PPL(T) | •                    | •      |                       |                           | 0.70                  | 8000                | 44.5           | 18.7               | 55                |              |
| ZN6038-DC12LB(S)PPL(T) | •                    | •      |                       |                           | 0.50                  | 7000                | 39.0           | 14.5               | 51                |              |
| ZN6038-DC24DB(S)PPL(T) | •                    | •      | 24                    | 15.0-27.6                 | 0.65                  | 10000               | 56.6           | 29.2               | 65                | 85           |
| ZN6038-DC24HB(S)PPL(T) | •                    | •      |                       |                           | 0.50                  | 9000                | 49.9           | 22.8               | 60                |              |
| ZN6038-DC24MB(S)PPL(T) | •                    | •      |                       |                           | 0.35                  | 8000                | 44.5           | 18.7               | 55                |              |
| ZN6038-DC24LB(S)PPL(T) | •                    | •      |                       |                           | 0.30                  | 7000                | 39.0           | 14.5               | 51                |              |
| ZN6038-DC48DB(S)PPL(T) | •                    | •      | 48                    | 28.0-55.2                 | 0.35                  | 10000               | 56.6           | 29.2               | 65                | 85           |
| ZN6038-DC48HB(S)PPL(T) | •                    | •      |                       |                           | 0.30                  | 9000                | 49.9           | 22.8               | 60                |              |
| ZN6038-DC48MB(S)PPL(T) | •                    | •      |                       |                           | 0.25                  | 8000                | 44.5           | 18.7               | 55                |              |
| ZN6038-DC48LB(S)PPL(T) | •                    | •      |                       |                           | 0.20                  | 7000                | 39.0           | 14.5               | 51                |              |

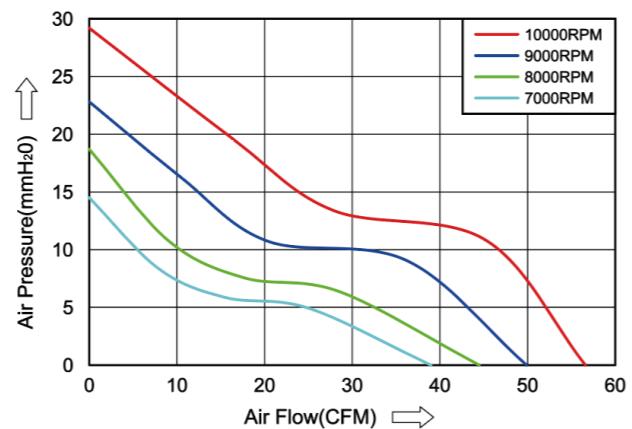
## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                        | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN8025-DC5HB(S)PPL(T)  | •                    | •      | 5                     | 4.5-5.5                   | 0.40                  | 3000                | 41.5           | 3.5                | 33                | 78           |
| ZN8025-DC5MB(S)PPL(T)  | •                    | •      | 12                    | 6.0-13.8                  | 0.28                  | 2500                | 33.4           | 2.2                | 28                | 78           |
| ZN8025-DC5LB(S)PPL(T)  | •                    | •      | 2000                  | 27.7                      | 0.22                  | 2000                | 1.9            | 23                 | 78                |              |
| ZN8025-DC12HB(S)PPL(T) | •                    | •      | 4000                  | 56.0                      | 0.40                  | 27.7                | 6.2            | 42                 | 78                |              |
| ZN8025-DC12MB(S)PPL(T) | •                    | •      | 3000                  | 41.5                      | 0.25                  | 2000                | 3.5            | 33                 | 78                |              |
| ZN8025-DC12LB(S)PPL(T) | •                    | •      | 2000                  | 27.7                      | 0.13                  | 2000                | 1.9            | 23                 | 78                |              |
| ZN8025-DC24HB(S)PPL(T) | •                    | •      | 4000                  | 56.0                      | 0.25                  | 3000                | 6.2            | 42                 | 78                |              |
| ZN8025-DC24MB(S)PPL(T) | •                    | •      | 3000                  | 41.5                      | 0.15                  | 2000                | 3.5            | 33                 | 78                |              |
| ZN8025-DC24LB(S)PPL(T) | •                    | •      | 2000                  | 27.7                      | 0.10                  | 2000                | 1.9            | 23                 | 78                |              |
| ZN8025-DC48HB(S)PPL(T) | •                    | •      | 4000                  | 56.0                      | 0.18                  | 3000                | 6.2            | 42                 | 78                |              |
| ZN8025-DC48MB(S)PPL(T) | •                    | •      | 3000                  | 41.5                      | 0.10                  | 2000                | 3.5            | 33                 | 78                |              |
| ZN8025-DC48LB(S)PPL(T) | •                    | •      | 2000                  | 27.7                      | 0.08                  | 2000                | 1.9            | 23                 | 78                |              |

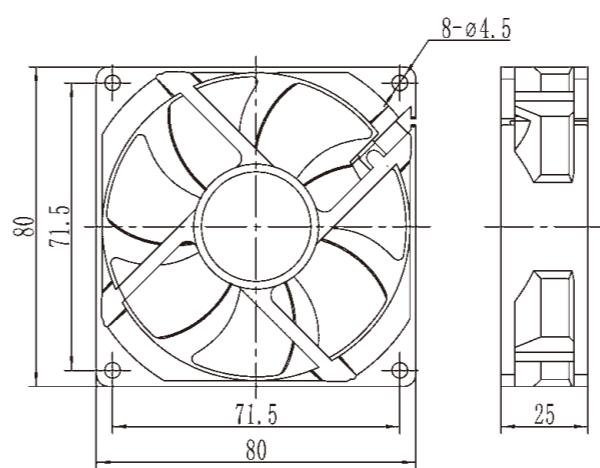
## 外观尺寸 / DIMENSIONS DRAWING



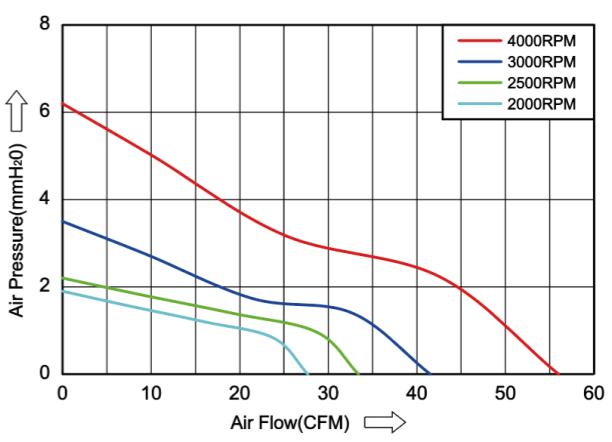
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

功能选择: IPX6 / PWM / FG& RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

功能选择: IPX6 / PWM / FG& RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



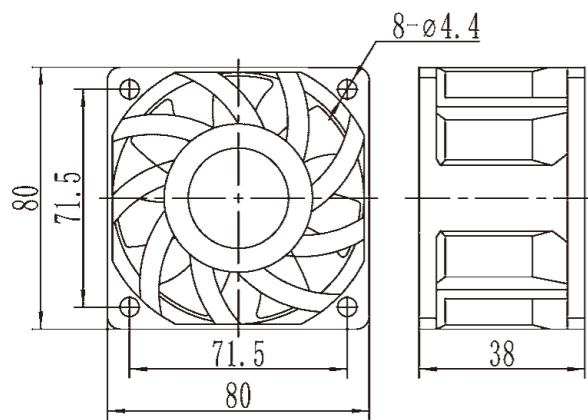
## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                        | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN8038-DC12DB(S)PPL(T) | •                    |        | 12                    | 7.0-13.8                  | 2.80                  | 9000                | 124.0          | 50.0               | 67                | 170          |
| ZN8038-DC12HB(S)PPL(T) | •                    |        |                       |                           | 1.60                  | 7500                | 105.0          | 35.0               | 63                |              |
| ZN8038-DC12MB(S)PPL(T) | •                    | •      |                       |                           | 0.85                  | 6000                | 83.5           | 21.8               | 57                |              |
| ZN8038-DC12LB(S)PPL(T) | •                    | •      |                       |                           | 0.45                  | 4500                | 61.5           | 12.4               | 49                |              |
| ZN8038-DC24DB(S)PPL(T) | •                    |        | 24                    | 12.0-27.6                 | 1.50                  | 9000                | 124.0          | 50.0               | 67                | 170          |
| ZN8038-DC24HB(S)PPL(T) | •                    |        |                       |                           | 0.80                  | 7500                | 105.0          | 35.0               | 63                |              |
| ZN8038-DC24MB(S)PPL(T) | •                    | •      |                       |                           | 0.45                  | 6000                | 83.5           | 21.8               | 57                |              |
| ZN8038-DC24LB(S)PPL(T) | •                    | •      |                       |                           | 0.25                  | 4500                | 61.5           | 12.4               | 49                |              |
| ZN8038-DC48DB(S)PPL(T) | •                    |        | 48                    | 24.0-55.2                 | 0.80                  | 9000                | 124.0          | 50.0               | 67                | 170          |
| ZN8038-DC48HB(S)PPL(T) | •                    |        |                       |                           | 0.45                  | 7500                | 105.0          | 35.0               | 63                |              |
| ZN8038-DC48MB(S)PPL(T) | •                    | •      |                       |                           | 0.28                  | 6000                | 83.5           | 21.8               | 57                |              |
| ZN8038-DC48LB(S)PPL(T) | •                    | •      |                       |                           | 0.18                  | 4500                | 61.5           | 12.4               | 49                |              |

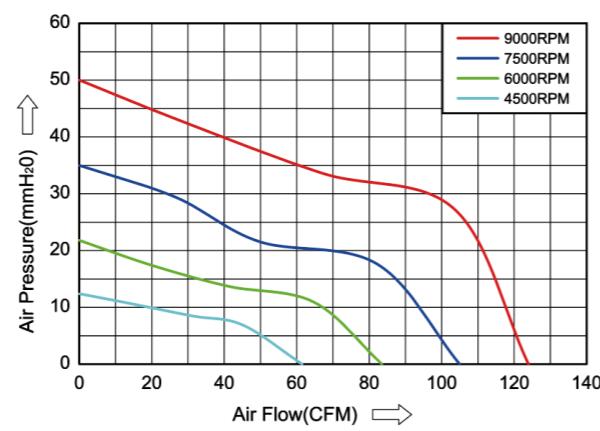
## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                        | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN9225-DC5HB(S)PPL(T)  | •                    | •      |                       |                           |                       |                     | 0.40           | 2800               | 55.5              | 2.7          |
| ZN9225-DC5MB(S)PPL(T)  | •                    | •      | 5                     | 3.5-5.5                   |                       |                     | 0.28           | 2500               | 49.6              | 2.4          |
| ZN9225-DC5LB(S)PPL(T)  | •                    | •      |                       |                           |                       |                     | 0.22           | 2000               | 39.2              | 1.9          |
| ZN9225-DC12HB(S)PPL(T) | •                    | •      |                       |                           |                       |                     | 0.50           | 3800               | 74.0              | 6.2          |
| ZN9225-DC12MB(S)PPL(T) | •                    | •      | 12                    | 6.0-13.8                  |                       |                     | 0.28           | 3000               | 59.6              | 3.5          |
| ZN9225-DC12LB(S)PPL(T) | •                    | •      |                       |                           |                       |                     | 0.15           | 2000               | 39.2              | 1.9          |
| ZN9225-DC24HB(S)PPL(T) | •                    | •      |                       |                           |                       |                     | 0.30           | 3800               | 74.0              | 6.2          |
| ZN9225-DC24MB(S)PPL(T) | •                    | •      | 24                    | 12.0-27.6                 |                       |                     | 0.20           | 3000               | 59.6              | 3.5          |
| ZN9225-DC24LB(S)PPL(T) | •                    | •      |                       |                           |                       |                     | 0.10           | 2000               | 39.2              | 1.9          |
| ZN9225-DC48HB(S)PPL(T) | •                    | •      |                       |                           |                       |                     | 0.18           | 3800               | 74.0              | 6.2          |
| ZN9225-DC48MB(S)PPL(T) | •                    | •      | 48                    | 24.0-55.2                 |                       |                     | 0.12           | 3000               | 59.6              | 3.5          |
| ZN9225-DC48LB(S)PPL(T) | •                    | •      |                       |                           |                       |                     | 0.10           | 2000               | 39.2              | 1.9          |

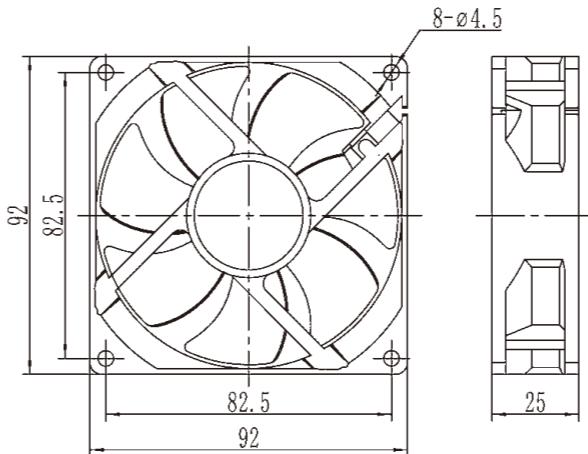
## 外观尺寸 / DIMENSIONS DRAWING



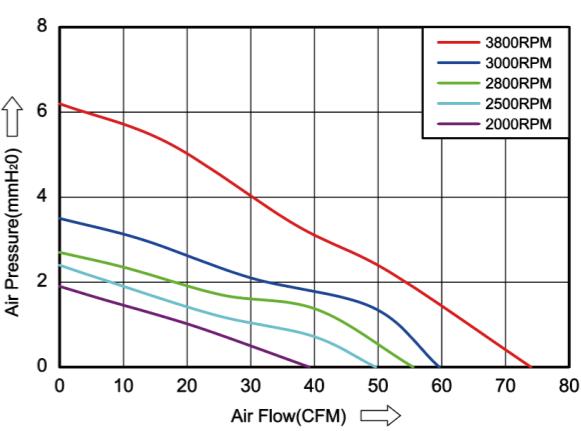
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

功能选择: IPX6 / PWM / FG&RD / Thermal control /  
(Available Features)  
Autoreset / Slow startup



## 技术参数 / TECHNICAL DATA

| 型号<br>Model            | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                        | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN9238-DC12HB(S)PPL(T) | •                    |        | 12                    | 6.0-13.8                  | 2.50                  | 6000                | 138.5          | 26.4               | 63                | 170          |
| ZN9238-DC12MB(S)PPL(T) | •                    | •      |                       |                           | 1.00                  | 5000                | 115.4          | 18.4               | 56                |              |
| ZN9238-DC12LB(S)PPL(T) | •                    | •      |                       |                           | 0.50                  | 4000                | 115.4          | 11.7               | 48                |              |
| ZN9238-DC24HB(S)PPL(T) | •                    |        | 24                    | 12.0-27.6                 | 1.50                  | 6000                | 92.3           | 26.4               | 63                | 170          |
| ZN9238-DC24MB(S)PPL(T) | •                    | •      |                       |                           | 0.75                  | 5000                | 138.5          | 18.4               | 56                |              |
| ZN9238-DC24LB(S)PPL(T) | •                    | •      |                       |                           | 0.25                  | 4000                | 115.4          | 11.7               | 48                |              |
| ZN9238-DC48HB(S)PPL(T) | •                    |        | 48                    | 24.0-55.2                 | 0.80                  | 6000                | 138.5          | 26.4               | 63                | 170          |
| ZN9238-DC48MB(S)PPL(T) | •                    | •      |                       |                           | 0.30                  | 5000                | 115.4          | 18.4               | 56                |              |
| ZN9238-DC48LB(S)PPL(T) | •                    | •      |                       |                           | 0.20                  | 4000                | 92.3           | 11.7               | 48                |              |

## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

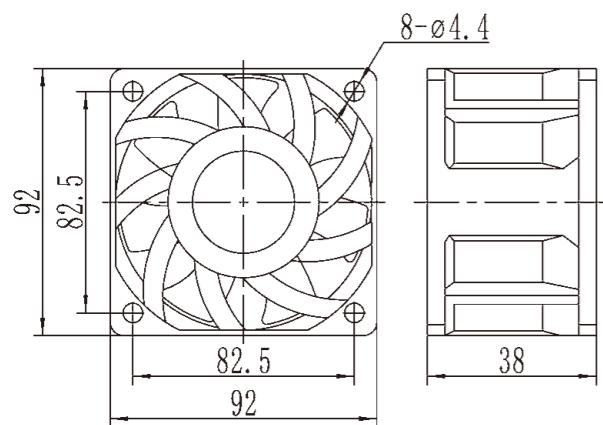
功能选择: IPX6 / PWM / FG&RD / Thermal control /  
(Available Features)  
Autoreset / Slow startup



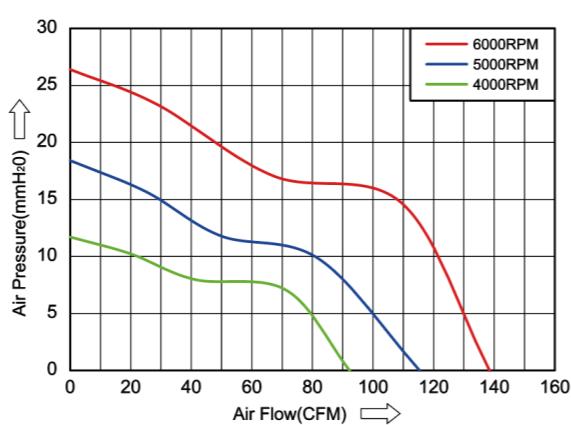
## 技术参数 / TECHNICAL DATA

| 型号<br>Model             | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                         | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN12025-DC12HB(S)PPL(T) | •                    | •      | 12                    | 6.0-13.8                  | 0.80                  | 3800                | 135.5          | 10.2               | 49                | 140          |
| ZN12025-DC12MB(S)PPL(T) | •                    | •      | 12                    |                           | 0.50                  | 3000                | 108.8          | 6.4                | 44                |              |
| ZN12025-DC12LB(S)PPL(T) | •                    | •      | 24                    | 12.0-27.6                 | 0.30                  | 2200                | 79.0           | 3.5                | 36                |              |
| ZN12025-DC24HB(S)PPL(T) | •                    | •      | 24                    |                           | 0.45                  | 3800                | 135.5          | 10.2               | 49                |              |
| ZN12025-DC24MB(S)PPL(T) | •                    | •      | 24                    |                           | 0.35                  | 3000                | 108.8          | 6.4                | 44                |              |
| ZN12025-DC24LB(S)PPL(T) | •                    | •      | 48                    | 24.0-55.2                 | 0.22                  | 2200                | 79.0           | 3.5                | 36                | 140          |
| ZN12025-DC48HB(S)PPL(T) | •                    | •      | 48                    |                           | 0.30                  | 3800                | 135.5          | 10.2               | 49                |              |
| ZN12025-DC48MB(S)PPL(T) | •                    | •      | 48                    |                           | 0.25                  | 3000                | 108.8          | 6.4                | 44                |              |
| ZN12025-DC48LB(S)PPL(T) | •                    | •      | 48                    |                           | 0.15                  | 2200                | 79.0           | 3.5                | 36                |              |

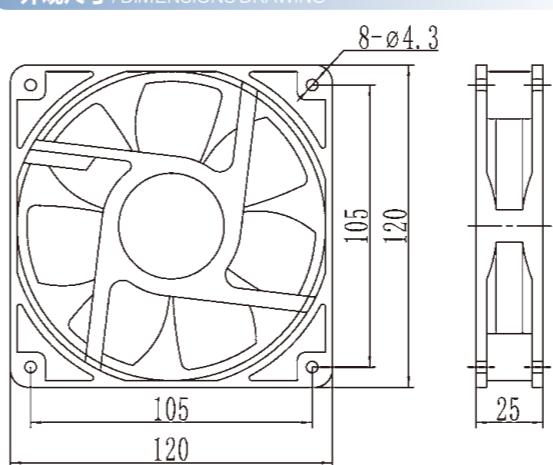
## 外观尺寸 / DIMENSIONS DRAWING



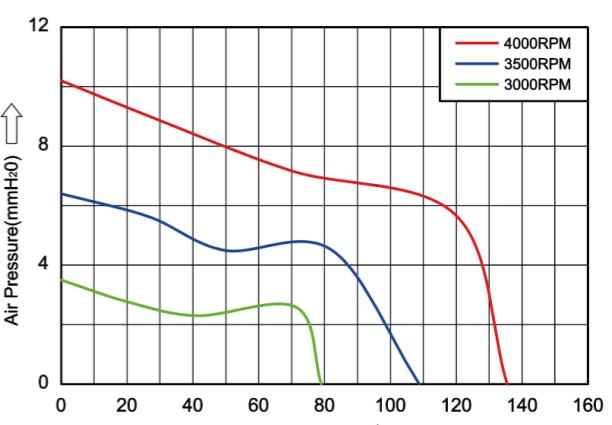
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

功能选择: IPX6 / PWM / FG& RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



## 技术参数 / TECHNICAL DATA

| 型号<br>Model             | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                         | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN12038-DC12HB(S)APL(T) | •                    |        | 12                    | 6.0-13.8                  | 1.30                  | 3800                | 160.0          | 14.3               | 51                | 270          |
| ZN12038-DC12MB(S)APL(T) | •                    | •      |                       |                           | 0.60                  | 3000                | 120.6          | 7.5                | 43                |              |
| ZN12038-DC12LB(S)APL(T) | •                    | •      |                       |                           | 0.30                  | 2000                | 80.5           | 4.3                | 34                |              |
| ZN12038-DC24HB(S)APL(T) | •                    |        | 24                    | 12.0-27.6                 | 0.60                  | 3800                | 160.0          | 14.3               | 51                | 270          |
| ZN12038-DC24MB(S)APL(T) | •                    | •      |                       |                           | 0.35                  | 3000                | 120.6          | 7.5                | 43                |              |
| ZN12038-DC24LB(S)APL(T) | •                    | •      |                       |                           | 0.20                  | 2000                | 80.5           | 4.3                | 34                |              |
| ZN12038-DC48HB(S)APL(T) | •                    |        | 48                    | 24.0-55.2                 | 0.35                  | 3800                | 160.0          | 14.3               | 51                | 270          |
| ZN12038-DC48MB(S)APL(T) | •                    | •      |                       |                           | 0.22                  | 3000                | 120.6          | 7.5                | 43                |              |
| ZN12038-DC48LB(S)APL(T) | •                    | •      |                       |                           | 0.12                  | 2000                | 80.5           | 4.3                | 34                |              |

## 通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

材质: Impeller & Frame: Plastic  
(Material)

线材: UL Type  
(Lead Wire)

工作模式: S1  
(Mode of operation)

工作环境: -10° C-70° C, 35%-85%RH  
(Operation Temperature)

储存环境: -40° C-80° C, 35%-85%RH  
(Storage Temperature)

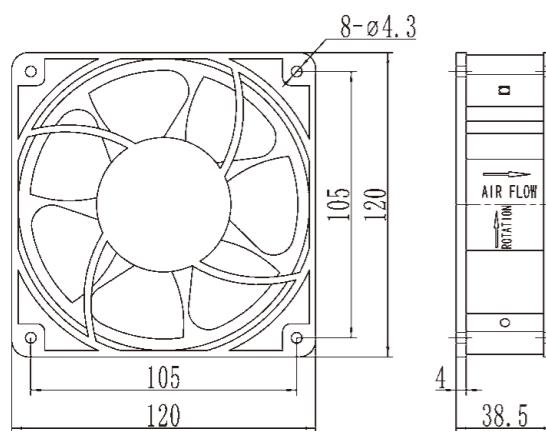
功能选择: IPX6 / PWM / FG& RD / Thermal control /  
(Available Features)  
Autoresart / Slow starup



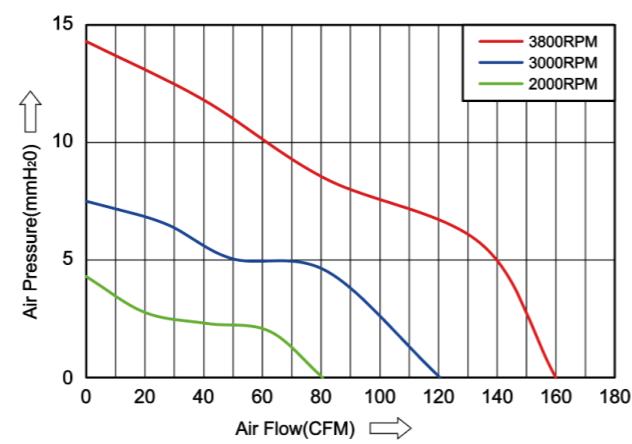
## 技术参数 / TECHNICAL DATA

| 型号<br>Model             | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                         | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN12038-DC12HB(S)PPL(T) | •                    |        |                       |                           |                       | 3.3                 | 4500           | 215.2              | 28.0              | 62           |
| ZN12038-DC12MB(S)PPL(T) | •                    | •      | 12                    | 7.0-13.8                  | 2.0                   | 4000                | 188.5          | 21.5               | 58                | 350          |
| ZN12038-DC12LB(S)PPL(T) | •                    | •      |                       |                           | 1.5                   | 3000                | 140.1          | 12.0               | 52                |              |
| ZN12038-DC24DB(S)PPL(T) | •                    |        |                       |                           | 1.5                   | 5500                | 260.5          | 42.0               | 68                |              |
| ZN12038-DC24HB(S)PPL(T) | •                    |        | 24                    | 15.0-27.6                 | 1.3                   | 4500                | 215.2          | 28.0               | 62                | 350          |
| ZN12038-DC24MB(S)PPL(T) | •                    | •      |                       |                           | 1.1                   | 4000                | 188.5          | 21.5               | 58                |              |
| ZN12038-DC24LB(S)PPL(T) | •                    | •      |                       |                           | 0.6                   | 3000                | 140.1          | 12.0               | 52                |              |
| ZN12038-DC48DB(S)PPL(T) | •                    |        |                       |                           | 1.2                   | 5500                | 260.5          | 42.0               | 68                |              |
| ZN12038-DC48HB(S)PPL(T) | •                    |        | 48                    | 28.0-55.2                 | 0.9                   | 4500                | 215.2          | 28.0               | 62                | 350          |
| ZN12038-DC48MB(S)PPL(T) | •                    | •      |                       |                           | 0.6                   | 4000                | 188.5          | 21.5               | 58                |              |
| ZN12038-DC48LB(S)PPL(T) | •                    | •      |                       |                           | 0.4                   | 3000                | 140.1          | 12.0               | 52                |              |

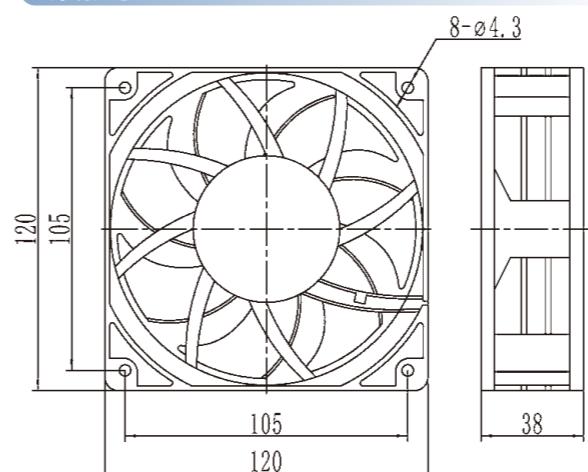
## 外观尺寸 / DIMENSIONS DRAWING



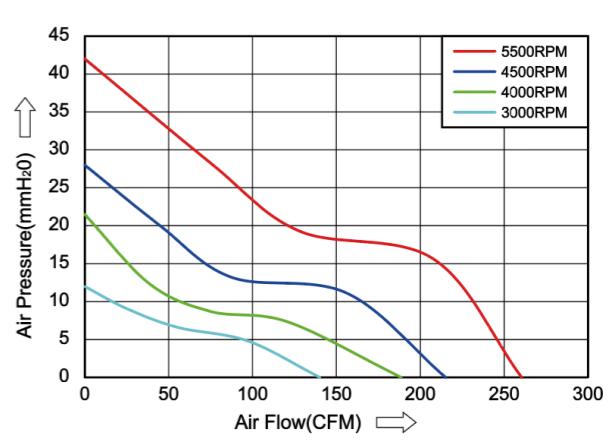
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 通用规范 / GENERAL SPECIFICATIONS

|                         |  |
|-------------------------|--|
| 绝缘等级:                   | Class B  |
| (Insulation)            |  |
| 材质:                     | Impeller: Plastic; Frame: Aluminum Alloy                           |
| (Material)              |  |
| 线材:                     | UL Type  |
| (Lead Wire)             |  |
| 工作模式:                   | S1   |
| (Mode of operation)     |  |
| 工作环境:                   | -10° C-70° C, 35%-85%RH  |
| (Operation Temperature) |  |
| 储存环境:                   | -40° C-80° C, 35%-85%RH  |
| (Storage Temperature)   |  |
| 功能选择:                   | IPX6 / PWM / FG&RD / Thermal control /<br>Autoreset / Slow startup |
| (Available Features)    |  |



## 技术参数 / TECHNICAL DATA

| 型号<br>Model             | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                         | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN15050-DC12DB(S)APL(T) | •                    |        | 12                    | 7.0-13.8                  | 3.0                   | 4500                | 303.8          | 35.2               | 64                | 750          |
| ZN15050-DC12HB(S)APL(T) | •                    |        |                       |                           | 2.5                   | 4000                | 265.6          | 28.0               | 61                |              |
| ZN15050-DC12MB(S)APL(T) | •                    |        |                       |                           | 1.5                   | 3000                | 208.2          | 19.4               | 51                |              |
| ZN15050-DC12LB(S)APL(T) | •                    |        |                       |                           | 1.0                   | 2500                | 173.2          | 13.9               | 44                |              |
| ZN15050-DC24DB(S)APL(T) | •                    |        | 24                    | 15.0-27.6                 | 2.4                   | 5000                | 338.8          | 41.0               | 67                | 750          |
| ZN15050-DC24HB(S)APL(T) | •                    |        |                       |                           | 2.0                   | 4500                | 303.8          | 35.2               | 64                |              |
| ZN15050-DC24MB(S)APL(T) | •                    |        |                       |                           | 1.5                   | 4000                | 265.6          | 28.0               | 61                |              |
| ZN15050-DC24LB(S)APL(T) | •                    |        |                       |                           | 0.6                   | 3000                | 208.2          | 19.4               | 51                |              |
| ZN15050-DC48DB(S)APL(T) | •                    |        | 48                    | 24.0-55.2                 | 1.5                   | 5000                | 338.8          | 41.0               | 67                | 750          |
| ZN15050-DC48HB(S)APL(T) | •                    |        |                       |                           | 1.0                   | 4500                | 303.8          | 35.2               | 64                |              |
| ZN15050-DC48MB(S)APL(T) | •                    |        |                       |                           | 0.75                  | 4000                | 265.6          | 28.0               | 61                |              |
| ZN15050-DC48LB(S)APL(T) | •                    |        |                       |                           | 0.4                   | 3000                | 208.2          | 19.4               | 51                |              |

## 通用规范 / GENERAL SPECIFICATIONS

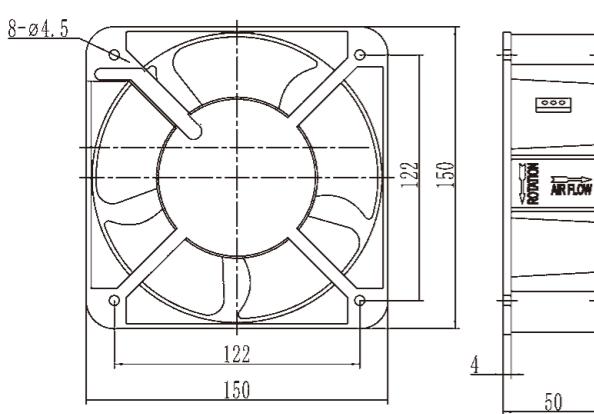
|                         |  |
|-------------------------|--|
| 绝缘等级:                   | Class B  |
| (Insulation)            |  |
| 材质:                     | Impeller: Plastic; Frame: Aluminum Alloy                           |
| (Material)              |  |
| 线材:                     | UL Type  |
| (Lead Wire)             |  |
| 工作模式:                   | S1   |
| (Mode of operation)     |  |
| 工作环境:                   | -10° C-70° C, 35%-85%RH  |
| (Operation Temperature) |  |
| 储存环境:                   | -40° C-80° C, 35%-85%RH  |
| (Storage Temperature)   |  |
| 功能选择:                   | IPX6 / PWM / FG&RD / Thermal control /<br>Autoreset / Slow startup |
| (Available Features)    |  |



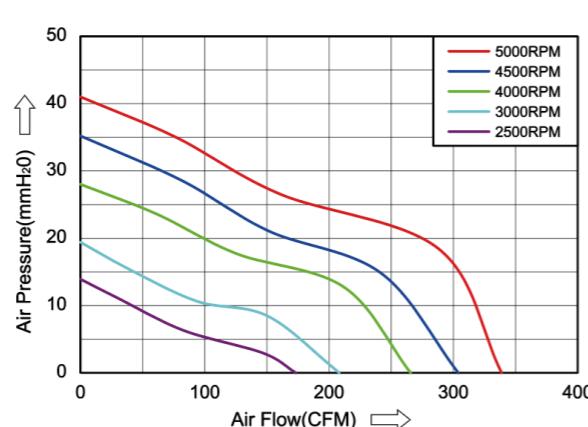
## 技术参数 / TECHNICAL DATA

| 型号<br>Model             | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                         | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN17251-DC12DB(S)APL(T) | •                    |        | 12                    | 7.0-13.8                  | 3.0                   | 4500                | 306.8          | 38.1               | 64                | 750          |
| ZN17251-DC12HB(S)APL(T) | •                    |        |                       |                           | 2.5                   | 4000                | 272.6          | 30.8               | 61                |              |
| ZN17251-DC12MB(S)APL(T) | •                    |        |                       |                           | 1.5                   | 3000                | 211.5          | 20.0               | 51                |              |
| ZN17251-DC12LB(S)APL(T) | •                    |        |                       |                           | 1.0                   | 2500                | 176.2          | 13.9               | 44                |              |
| ZN17251-DC24DB(S)APL(T) | •                    |        | 24                    | 15.0-27.6                 | 2.4                   | 5000                | 340.8          | 45.0               | 68                | 750          |
| ZN17251-DC24HB(S)APL(T) | •                    |        |                       |                           | 2.0                   | 4500                | 306.8          | 38.1               | 64                |              |
| ZN17251-DC24MB(S)APL(T) | •                    |        |                       |                           | 1.5                   | 4000                | 272.6          | 30.8               | 61                |              |
| ZN17251-DC24LB(S)APL(T) | •                    |        |                       |                           | 0.6                   | 3000                | 211.5          | 20.0               | 51                |              |
| ZN17251-DC48DB(S)APL(T) | •                    |        | 48                    | 24.0-55.2                 | 1.5                   | 5000                | 340.8          | 45.0               | 68                | 750          |
| ZN17251-DC48HB(S)APL(T) | •                    |        |                       |                           | 1.0                   | 4500                | 306.8          | 38.1               | 64                |              |
| ZN17251-DC48MB(S)APL(T) | •                    |        |                       |                           | 0.75                  | 4000                | 272.6          | 30.8               | 61                |              |
| ZN17251-DC48LB(S)APL(T) | •                    |        |                       |                           | 0.4                   | 3000                | 211.5          | 20.0               | 51                |              |

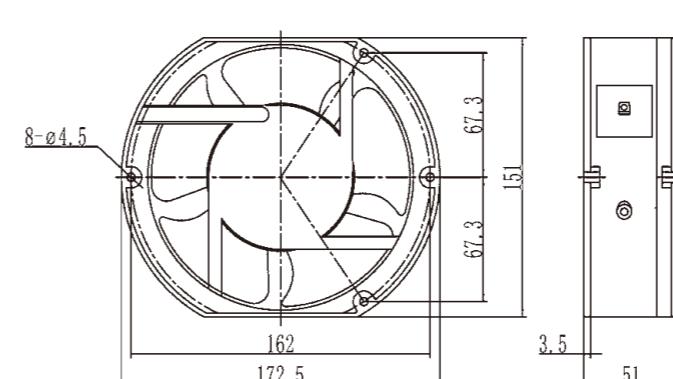
## 外观尺寸 / DIMENSIONS DRAWING



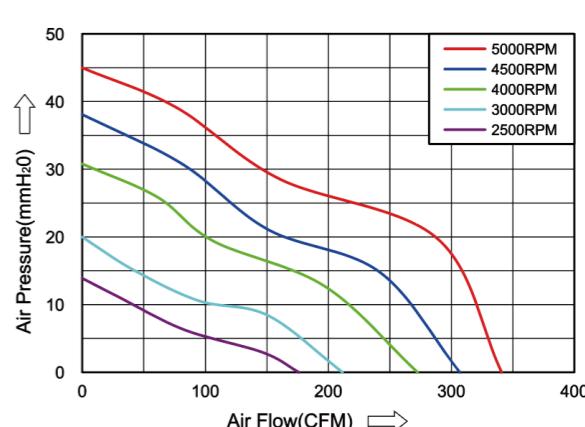
## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&amp;Q CURVE(AT RATED VOLTAGE)



通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

**材质:** Impeller: Plastic; Frame: Aluminum Alloy  
( Material )

**线材:** **UL Type**  
( Lead Wire )

工作模式: S1  
(Mode of operation)

**工作环境: -10° C-70° C,35%-85%RH**  
( Operation Temperature )

储存环境: -40° C-80° C,35%-85%RH  
( Slorage Temperature )

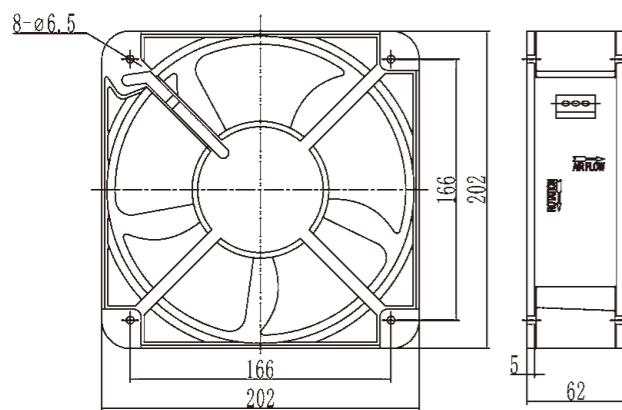
**功能选择: IPX6 / PWM / FG& RD / Thermal control /**  
( Available Features )  
**Autoresart / Slow starup**



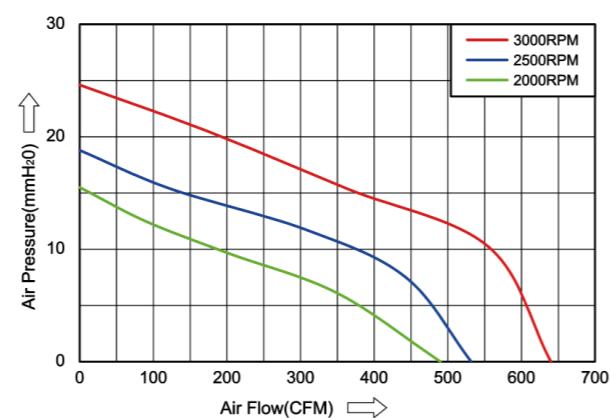
## 技术参数 / TECHNICAL DATA

| 型号<br>Model             | Bearing System<br>轴承 |        | Rated Voltage<br>额定电压 | Operation Voltage<br>安规电压 | Rated Current<br>额定电流 | Rated Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------------|----------------------|--------|-----------------------|---------------------------|-----------------------|---------------------|----------------|--------------------|-------------------|--------------|
|                         | Ball                 | Sleeve |                       |                           |                       |                     |                |                    |                   |              |
| ZN20060-DC12HB(S)APL(T) | •                    |        | 12                    | 7.0-13.8                  | 3.5                   | 3000                | 640            | 24.6               | 68                | 1032         |
| ZN20060-DC12MB(S)APL(T) | •                    |        |                       |                           | 2.8                   | 2500                | 532            | 18.8               | 58                |              |
| ZN20060-DC12LB(S)APL(T) | •                    |        |                       |                           | 2.0                   | 2000                | 490            | 15.5               | 50                |              |
| ZN20060-DC24HB(S)APL(T) | •                    |        | 24                    | 15.0-27.6                 | 2.0                   | 3000                | 640            | 24.6               | 68                | 1032         |
| ZN20060-DC24MB(S)APL(T) | •                    |        |                       |                           | 1.5                   | 2500                | 532            | 18.8               | 58                |              |
| ZN20060-DC24LB(S)APL(T) | •                    |        |                       |                           | 1.0                   | 2000                | 490            | 15.5               | 50                |              |
| ZN20060-DC48HB(S)APL(T) | •                    |        | 48                    | 24.0-55.2                 | 1.2                   | 3000                | 640            | 24.6               | 68                | 1032         |
| ZN20060-DC48MB(S)APL(T) | •                    |        |                       |                           | 0.8                   | 2500                | 532            | 18.8               | 58                |              |
| ZN20060-DC48LB(S)APL(T) | •                    |        |                       |                           | 0.5                   | 2000                | 490            | 15.5               | 50                |              |

## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&Q CURVE(AT RATED VOLTAGE)



通用规范 / GENERAL SPECIFICATIONS

绝缘等级: Class B  
(Insulation)

**材质:** Impeller: Plastic; Frame: Aluminum Alloy  
(Material)

线材: **UL Type**  
( Lead Wire )

工作模式: S1  
( Mode of operation )

储存环境: -40° C-80° C,35%-85%RH  
( Slorage Temperature )

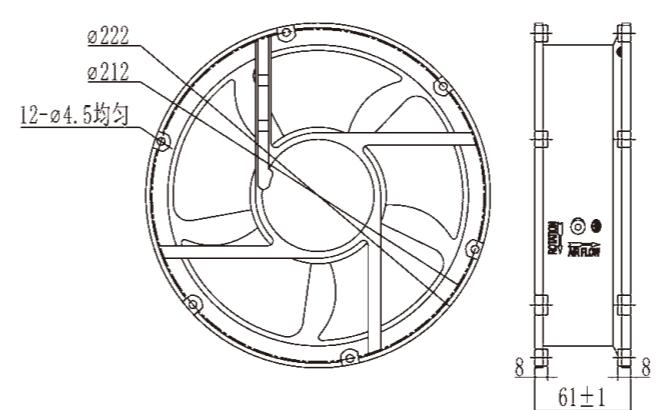
功能选择： IPX6 / PWM / FG& RD / Thermal control /  
( Available Features )  
Autoreset / Slow startup



## 技术参数 / TECHNICAL DATA

| 型号<br>Model             | Bearing System<br>轴承 |        | Rated<br>Voltage<br>额定电压 | Operation<br>Voltage<br>安规电压 | Rated<br>Current<br>额定电流 | Rated<br>Speed<br>额定速度 | Air Flow<br>风量 | Air Pressure<br>风压 | Noise Level<br>噪音 | Weight<br>重量 |
|-------------------------|----------------------|--------|--------------------------|------------------------------|--------------------------|------------------------|----------------|--------------------|-------------------|--------------|
|                         | Ball                 | Sleeve | VDC                      | VDC                          | A                        | RPM                    | CFM            | mmH <sub>2</sub> O | dBA               | g            |
| ZN22060-DC12HB(S)APL(T) | •                    |        | 12                       | 7.0-13.8                     | 3.5                      | 3000                   | 640            | 24.6               | 68                |              |
| ZN22060-DC12MB(S)APL(T) | •                    |        |                          |                              | 2.8                      | 2500                   | 532            | 18.8               | 58                | 1350         |
| ZN22060-DC12LB(S)APL(T) | •                    |        |                          |                              | 2.0                      | 2000                   | 490            | 15.5               | 50                |              |
| ZN22060-DC24HB(S)APL(T) | •                    |        | 24                       | 15.0-27.6                    | 2.0                      | 3000                   | 640            | 24.6               | 68                |              |
| ZN22060-DC24MB(S)APL(T) | •                    |        |                          |                              | 1.5                      | 2500                   | 532            | 18.8               | 58                | 1350         |
| ZN22060-DC24LB(S)APL(T) | •                    |        |                          |                              | 1.0                      | 2000                   | 490            | 15.5               | 50                |              |
| ZN22060-DC48HB(S)APL(T) | •                    |        | 48                       | 24.0-55.2                    | 1.2                      | 3000                   | 640            | 24.6               | 68                |              |
| ZN22060-DC48MB(S)APL(T) | •                    |        |                          |                              | 0.8                      | 2500                   | 532            | 18.8               | 58                | 1350         |
| ZN22060-DC48LB(S)APL(T) | •                    |        |                          |                              | 0.5                      | 2000                   | 490            | 15.5               | 50                |              |

## 外观尺寸 / DIMENSIONS DRAWING



## 曲线 / P&Q CURVE(AT RATED VOLTAGE)

