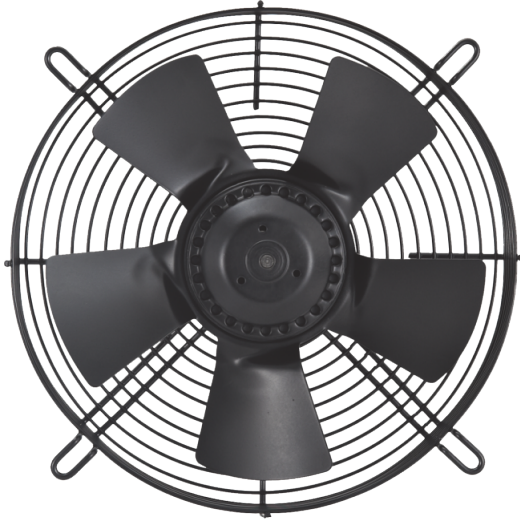


Model:YWF(K)2D250-ZX02

Fan type:AC Axial fan



Manufactory:Zhejiang MingZhen Electric & Electronic Co., Ltd.

ADD:The Central Industry Zone, Chengnan Town, WenLing City, Zhejiang Province, China

TEL:0086-576-86268888

FAX:0086-576-86268020

Mail:info1@cnsanmu.com

WEB:http://www.cnsanmu.com

Fan Introduction

This product consist of outer rotor(AC)motor, axial impeller, with features of compact structure, convenient installation, reliable operation, low noise, energy saving etc..

Scope of application

General purpose fan, can be widely used in purification of air conditioning systems, ventilation duct dust, environmental protection, refrigeration equipment and other fields.

Environmental requirements

- Operating ambient temperature range:-25℃~+65℃
- Working environment humidity range:≤90%
- Transportation and storage temperature range:-40℃~+80℃
- Transportation and storage environment humidity range:≤80%
- The storage place is well ventilated, corrosive gases not contained.

Model:YWF(K)2D250-ZX02

Fan type:AC Axial fan

Design, manufacturing, testing standards and certification

- JB/T 10562 Technical specification for general purposes axial fans
- GB/T 14711 Safety requirements of small and medium size rotating electrical machines
- GB/T 755/IEC60034-1 Rotating electrical machines - Part 1: Rating and performance
- GB 4706.32-2012/IEC 60335-2-40:2005 Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
- Balance quality grade for rotor is G6.3, in accordance with ISO 1940-1,
- Vibration testing and velocity is performed according to JB/T 8689.
- This product is certified by China CCC and EU CE
- ISO 9001 quality system certification

Technical features

| | |
|-------------------|--|
| Mass | 3.4 kg |
| Size | φ250 mm |
| Impeller material | cold rolled sheet steel |
| Direction | Blow(Seen from cable exit) |
| Protection class | IP54 |
| Insulation class | F |
| Mounting | Shaft horizontal or rotor on bottom; rotor on top on request |
| Mode of operation | S1(Continuous operation) |
| Bearings | Maintenance-free ball bearings |
| Thermal protector | Can be built in or out of line according to requirements |

Structures

| | |
|---------------|----------------------------|
| Blades count | 5 |
| Impeller type | Integrated blade |
| Attachment | Hight Concave Guard Grille |

Model:YWF(K)2D250-ZX02

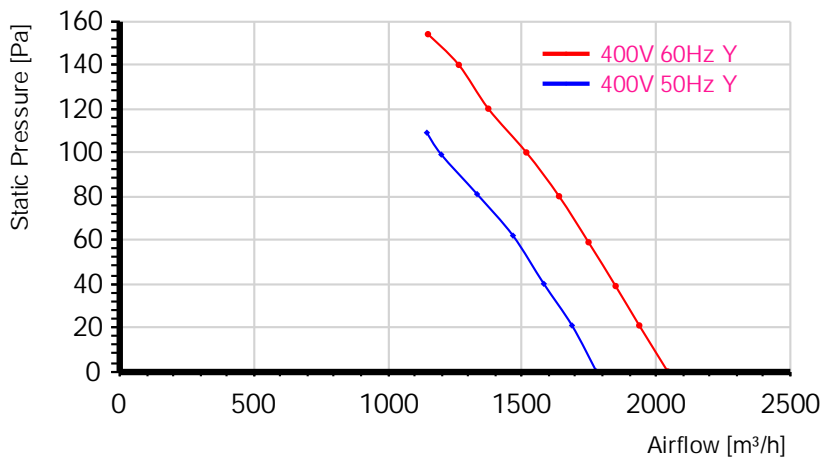
Fan type:AC Axial fan

Technical parameters

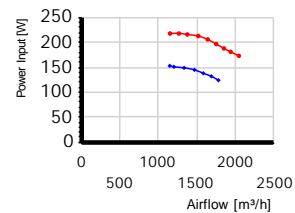
| | |
|---------------|--|
| Supply | 3P,380~440V |
| Frequency | 50/60 Hz |
| Motor poles | 2 |
| Rated voltage | 380 VAC |
| Power input | 160/200 W |
| Rated current | 0.3/0.31 A |
| Rated speed | 2750/3100 r/min |
| Max airflow | 1650/1900 m³/h (Static pressure=0Pa) |
| Acoustic | 70/72 dB(A) measured at 1.0m from inlet side |

Performance curve

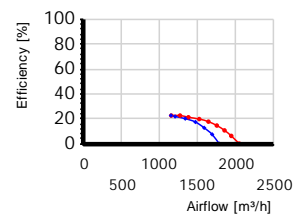
Airflow curve



Power input curve



Efficiency on static pressure



Performance test with reference to GB/T 1236-2017, equivalent to ISO 5801

| | | | | | | | | | | |
|------------------|-----------|-------------|-------------|-------------|---------|-----------------|------------------|----------------|--------------------|-------------|
| TestID | | 2014010407 | | | | Connection | | | Y | |
| Test environment | | | | | | | | | | |
| Outlet size | | Outlet area | | Temperature | | Humidity | | Baropressure | | Density |
| 260mm | | 0.0531m² | | 15℃ | | 62% | | 99.3kPa | | 1.2kg/m³ |
| Test data | | | | | | | | | | |
| Voltage | Frequency | Speed | Power input | Current | Airflow | Static pressure | Dynamic pressure | Total pressure | Pressure Differenc | Nozzle Size |
| V | Hz | r/min | W | A | m³/h | Pa | Pa | Pa | Pa | mm |
| 398.7 | 60 | 3070 | 218 | 0.35 | 1149 | 154 | 22 | 175 | 202 | 150+189*0 |
| 399.4 | 60 | 3090 | 218 | 0.35 | 1264 | 140 | 26 | 166 | 245 | 150+189*0 |

Model:YWF(K)2D250-ZX02

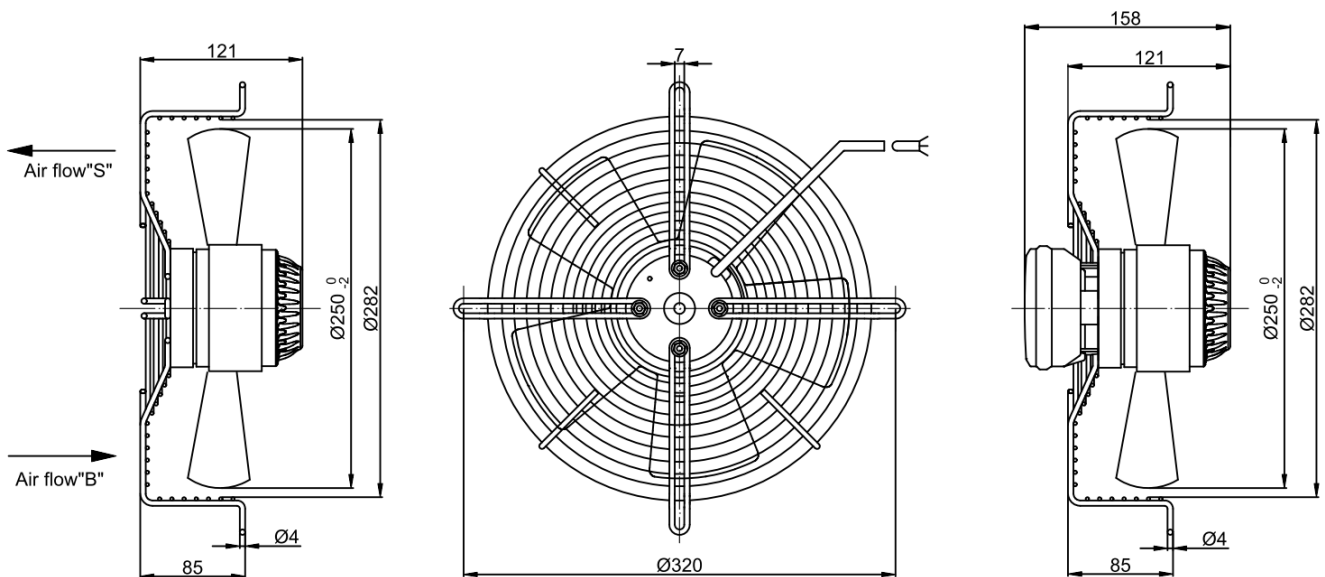
Fan type:AC Axial fan

| | | | | | | | | | | |
|-------|----|------|-----|------|------|-----|----|-----|-----|-----------|
| 398.8 | 60 | 3095 | 216 | 0.34 | 1374 | 120 | 31 | 151 | 288 | 150+189*0 |
| 399.3 | 60 | 3100 | 213 | 0.34 | 1516 | 100 | 38 | 137 | 351 | 150+189*0 |
| 398.9 | 60 | 3120 | 206 | 0.33 | 1638 | 80 | 44 | 124 | 409 | 150+189*0 |
| 399.3 | 60 | 3150 | 197 | 0.32 | 1748 | 59 | 50 | 109 | 466 | 150+189*0 |
| 399.3 | 60 | 3180 | 188 | 0.31 | 1849 | 39 | 56 | 95 | 207 | +189*1 |
| 399.8 | 60 | 3200 | 181 | 0.3 | 1937 | 21 | 62 | 82 | 227 | +189*1 |
| 399.7 | 60 | 3209 | 173 | 0.29 | 2043 | 0 | 68 | 68 | 253 | +189*1 |

| TestID | | 2014010408 | | Connection | | Y | | | | | |
|------------------|--|-------------|--|-------------|--|----------|--|--------------|--|----------|--|
| Test environment | | | | | | | | | | | |
| Outlet size | | Outlet area | | Temperature | | Humidity | | Baropressure | | Density | |
| 260mm | | 0.0531m² | | 15℃ | | 63% | | 99.3kPa | | 1.2kg/m³ | |

| Test data | | | | | | | | | | |
|-----------|-----------|-------|-------------|---------|-------------------|-----------------|------------------|----------------|--------------------|-------------|
| Voltage | Frequency | Speed | Power input | Current | Airflow | Static pressure | Dynamic pressure | Total pressure | Pressure Differenc | Nozzle Size |
| V | Hz | r/min | W | A | m ³ /h | Pa | Pa | Pa | Pa | mm |
| 400.6 | 50 | 2750 | 153 | 0.3 | 1145 | 109 | 22 | 131 | 201 | 150+189*0 |
| 400 | 50 | 2755 | 151 | 0.29 | 1199 | 99 | 24 | 123 | 220 | 150+189*0 |
| 400.5 | 50 | 2759 | 149 | 0.29 | 1332 | 81 | 29 | 110 | 272 | 150+189*0 |
| 400.8 | 50 | 2770 | 145 | 0.29 | 1466 | 62 | 35 | 97 | 328 | 150+189*0 |
| 402.2 | 50 | 2780 | 138 | 0.29 | 1581 | 40 | 41 | 81 | 382 | 150+189*0 |
| 400.9 | 50 | 2790 | 132 | 0.28 | 1686 | 21 | 47 | 67 | 434 | 150+189*0 |
| 399.6 | 50 | 2810 | 124 | 0.27 | 1777 | 0 | 52 | 52 | 481 | 150+189*0 |

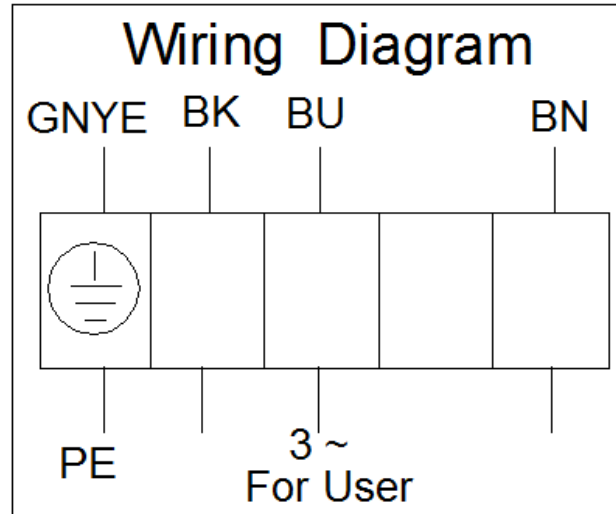
Dimensions(in mm)



Model:YWF(K)2D250-ZX02

Fan type:AC Axial fan

Wiring diagram



Attentions

- ★Please check the appearance and the accessories if there is no damage before use, check the model is consistent with requirements;
- ★Keep reliable grounding according to the wiring diagram. to avoid motor burning and personal accident, please check wiring is loose or fall off;
- ★For AC fans powered by three-phase supply, please confirm the power connection phase sequence before use to ensure that the motor rotation direction is consistent with the marked rotation direction (the motor rotation direction can be changed by reversing any two-phase phase sequence of the power supply);
- ★Before connect the power supply, check whether the motor is reliable, otherwise it will cause motor damage and personal injury;
- ★It is forbidden to pull the power cable, if the power cable is damaged, to be repaired before use, to avoid the accident of electric shock;
- ★Drop or impact motor is forbidden;
- ★Washing motor with water is prohibited, it will reduce the motor insulation level, even lead to electric leakage even endanger personal safety;
- ★Special customized product is designed for specified requirements, please consult with our engineers before change useage;

Model:YWF(K)2D250-ZX02

Fan type:AC Axial fan

- ★The temperature of the motor shell may be higher in a short time after the fan stopped, Please avoid direct contact with the motor surface. If necessary, please take protective measures to prevent scald;
- ★Do not contact the impeller when the fan running, you need to wait for all the parts stopped before operate it;
- ★When the fan is installed, check and ensure there is no debris in the shell and other shell body, keep the fan clean;
- ★After the fan installation complete, before connected to supply, please confirm that there is no collision or interference or stuck.

Service life, maintenance, warranty and Disclaimer

- The design life of this product is 40,000 hours. This data is derived from the expected life of L10 for general ball bearings at 40℃ is 40,000 hours. The actual service life of the product is affected by the use environment (temperature, humidity, installation, bearing load, etc.).
- According to the use of the environment, please make a clean maintenance every 3~6 months.
- From the date of purchase (order delivery date), The warranty period is one year. During this period, for failure due to the quality of the product itself, we provide free replacement or repairing. If the damage caused by improper disassembly, transportation, artificial damage or natural disasters, etc., is not in the scope of this warranty;
- All AC fans should be used according to the specified voltage range and power frequency. It is not recommended to use frequency converters and voltage regulators as speed control devices. If necessary, you need to make technical confirmation with our sales before placing an order. The use of unconfirmed speed control devices leads to the reduction of product life, abnormal noise, operating failures, etc., which are not covered by this warranty;