



Fan type:AC Backward curved centrifugal fan

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

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Fan Introduction

This product consist of outer rotor(AC)motor, backward curved centrifugal impeller, with features of compact structure, large airflow, high static pressure, low vibration, low noise, convenient installation, energy saving, high efficiency 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 +50
- ●Working environment humidity range:≤90%
- •Transportation and storage temperature range:-400~+800
- ●Transportation and storage environment humidity range:≤80%
- The storage place is well ventilated, corrosive gases not contained.



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Design, manufacturing, testing standards and certification

- JB/T 10563 Technical specification for general purposes centrifugal 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 60335-2-40:2022 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	8.7 kg
Size	φ400 mm
Impeller material	Sheet aluminium
Rotation	Counter-clockwise(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
Inverter speed regulation	Not Applicable

Structures

Inlet type	Single Inlet
Impeller type	Backward curved impeller
Housing	Without housing; With inlet ring;

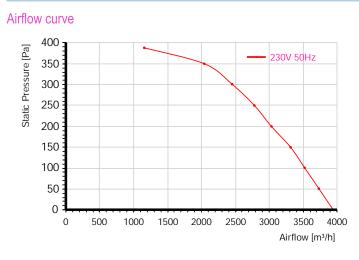
Technical parameters					
Supply	1P				
Frequency	50 Hz				



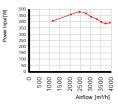
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Motor poles	4
Rated voltage	230 VAC
Power input	560 W
Rated current	2.46 A
Rated speed	1350 r/min
Max airflow	4100 m³/h (Static pressure=0Pa)
Acoustic	71 dB(A) measured at 1.0m from inlet side

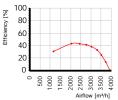
Performance curve







Efficiency on static pressure



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

TestID			2019	9021601		Capacitor			10 uF		
Test environment											
Outlet size Outlet area		area	Temperature		Humidity		Baropressure		Density		
475r	′5mm 0.1772		20	90		90%		102.4kPa		1.2kg/m ³	
	Test data										
Voltage	Frequency	Speed	Power inpu	t Current	Airflow	Static pressure	Dynamic pressure	Total pressure	Pressure Differen	∘Nozzle Size	
V	Hz	r/min	W	А	m³/h	Pa	Ра	Pa	Ра	mm	
231.1	50	1388	408	1.87	1156	388	2	390	215	150+189*0	
232.2	50	1367	460	2.1	2041	350	6	357	265	+189*1	
230.2	50	1354	480	2.22	2451	301	9	310	381	+189*1	
230.8	50	1360	469	2.16	2780	250	12	262	490	+189*1	
231.4	50	1373	441	2.03	3032	200	14	215	221	150+189*1	

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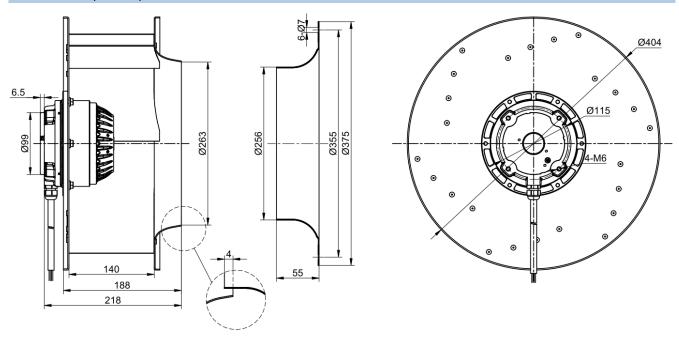
Product specification

Model:YWF(K)4E400-GH

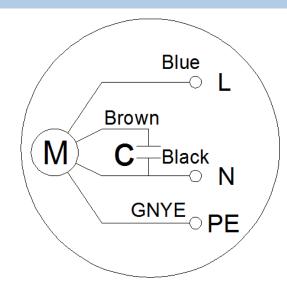
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232.6	50	1384	422	1.93	3314	150	17	167	263	150+189*1
230.8	50	1394	400	1.84	3521	101	19	120	297	150+189*1
231.2	50	1401	388	1.79	3731	51	22	72	333	150+189*1
230.3	50	1397	393	1.82	3944	0	24	24	372	150+189*1

Dimensions(in mm)



Wiring diagram





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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;

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;

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 thers 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^{II} is 40,000 hours. The actual service life of the product is affected by the use environment (temperature, humidity, installation, bearing load, etc.).



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•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 (If there is another contractual agreement, the period of time shall be as agreed in the contract). 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;

•This AC fan should be used according to the specified voltage range and power frequency. It is not recommended to use frequency inverters or 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;