Product specification

Model:YWF(K)2E280-GH

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:-40℃~+80℃
- ●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-T10563 Technical specification for general purposes centrifugal fans
- GB/T 14711 General safety requirements for Medium and small rotary motor
- GB/T 755/IEC60034-1 rotary motor quota 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
- The level of balance is in accordance with ISO 1940, G6.3
- Vibration testing and velocity is performed according to JB/T8689.
- This product is certified by China CCC and EU CE
- ISO 9001 quality system certification

Technical features

Mass	2.9 kg
Size	φ280 mm
Impeller material	Galvanised iron
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

Structures

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

Technical parameters

Supply	1P,220~240V
Frequency	50 Hz
Motor poles	2

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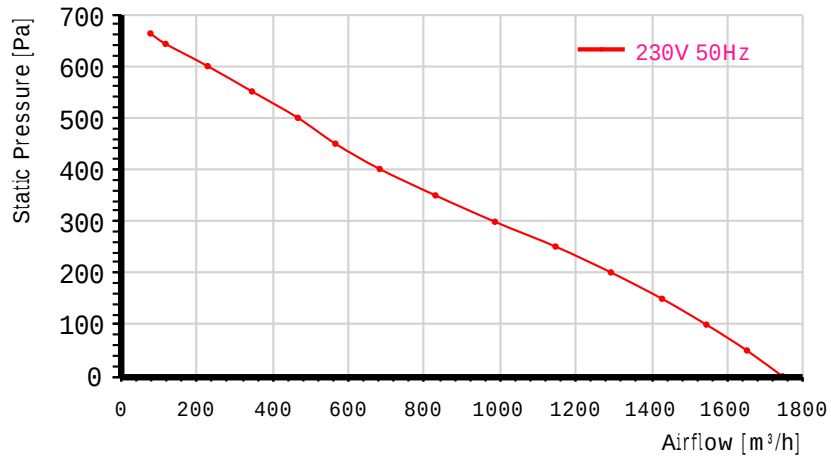
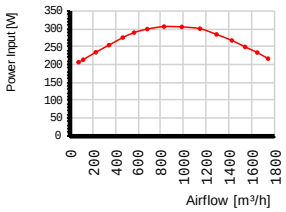
Rated voltage	230 VAC
Power input	250 W
Rated current	1.1 A
Rated speed	2500 r/min
Max airflow	1800 m³/h (Static pressure=0Pa)
Acoustic	76 dB(A) measured at 1.0m from inlet side

Performance curve

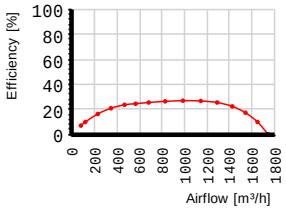
Airflow curve



Power input curve



Efficiency on static pressure



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

TestID	2013120503	Capacitor	8 uF

Test environment					
Outlet size	Outlet area	Temperature	Humidity	Baropressure	Density
241mm	0.0456㎡	18℃	64%	102.9kPa	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
231	50	2654	206	0.89	77	663	0	663	593	30
230.9	50	2625	213	0.92	117	643	0	643	438	40
231.1	50	2544	234	1.01	228	600	1	601	366	30+50
230.2	50	2453	254	1.11	345	551	3	553	390	30+40+50
231.1	50	2365	275	1.2	466	500	5	505	323	30+40+70
230.9	50	2303	289	1.26	565	450	7	458	266	30+40+50+70
229.9	50	2239	299	1.31	682	401	11	411	386	30+40+50+70
230.1	50	2212	306	1.33	829	350	16	366	248	30+40+50+100

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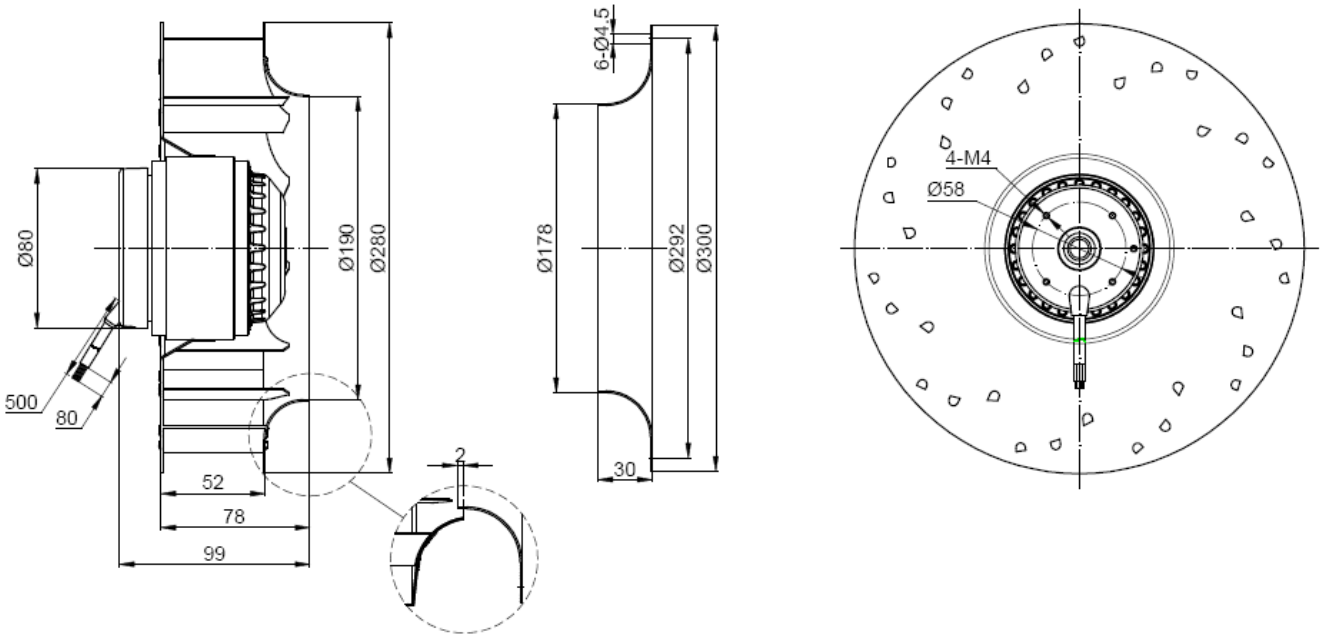
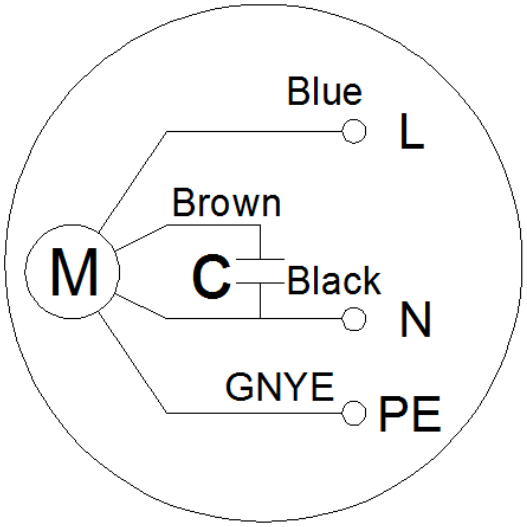
230.3	50	2229	305	1.33	986	299	22	322	200	30+40+50+70+100
230.7	50	2279	300	1.3	1146	251	30	281	269	30+40+50+70+100
230	50	2346	284	1.24	1292	201	38	239	342	30+40+50+70+100
229.5	50	2419	267	1.17	1427	150	46	197	416	30+40+50+70+100
229.8	50	2492	249	1.09	1544	100	54	154	486	30+40+50+70+100
230.1	50	2538	233	1.01	1651	50	62	112	556	30+40+50+70+100
229.7	50	2610	216	0.94	1745	0	69	70	620	30+40+50+70+100

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.

Product life and maintenance, warranty

●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.).

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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. 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;

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