Product specification

Model:YWF(K)2E280-GH03

Fan type:AC Backward curved centrifugal fan

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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℃~+75℃
- ●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	7.5 kg
Size	φ280 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

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

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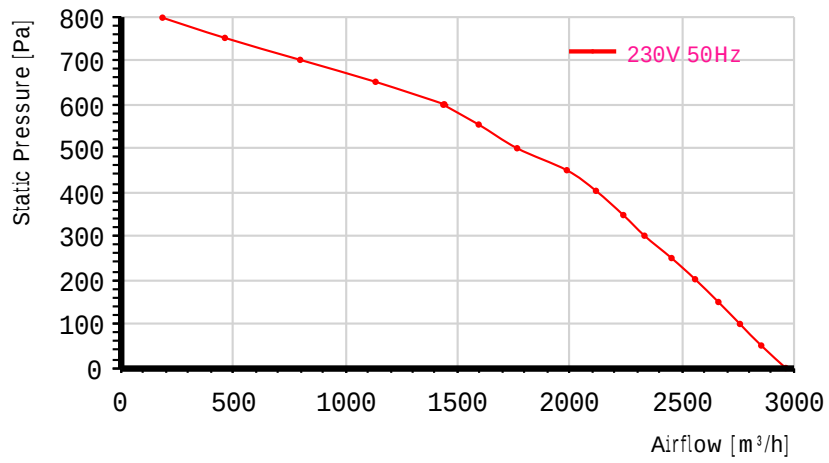
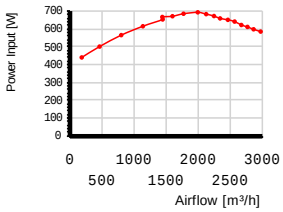
Motor poles	2
Rated voltage	230 VAC
Power input	590 W
Rated current	2.6 A
Rated speed	2740 r/min
Max airflow	2960 m³/h (Static pressure=0Pa)
Acoustic	80 dB(A) measured at 1.0m from inlet side

Performance curve

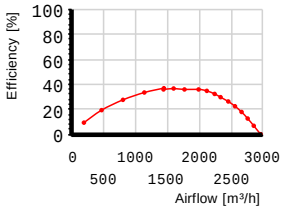
Airflow curve



Power input curve



Efficiency on static pressure



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

TestID	2017022704	Capacitor	25 uF

Test environment					
Outlet size	Outlet area	Temperature	Humidity	Baropressure	Density
314mm	0.0774㎡	13℃	52%	102.4kPa	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
231.3	50	2900	439	1.99	184	797	0	797	445	30+40
229.5	50	2805	500	2.24	462	751	2	752	318	30+40+70
229.5	50	2742	564	2.49	798	701	5	706	231	30+40+50+100
227.2	50	2690	614	2.72	1134	651	10	662	264	30+50
228.2	50	2627	652	2.86	1441	600	17	617	425	30+50
230.4	50	2610	666	2.9	1436	599	16	616	328	150+189*0

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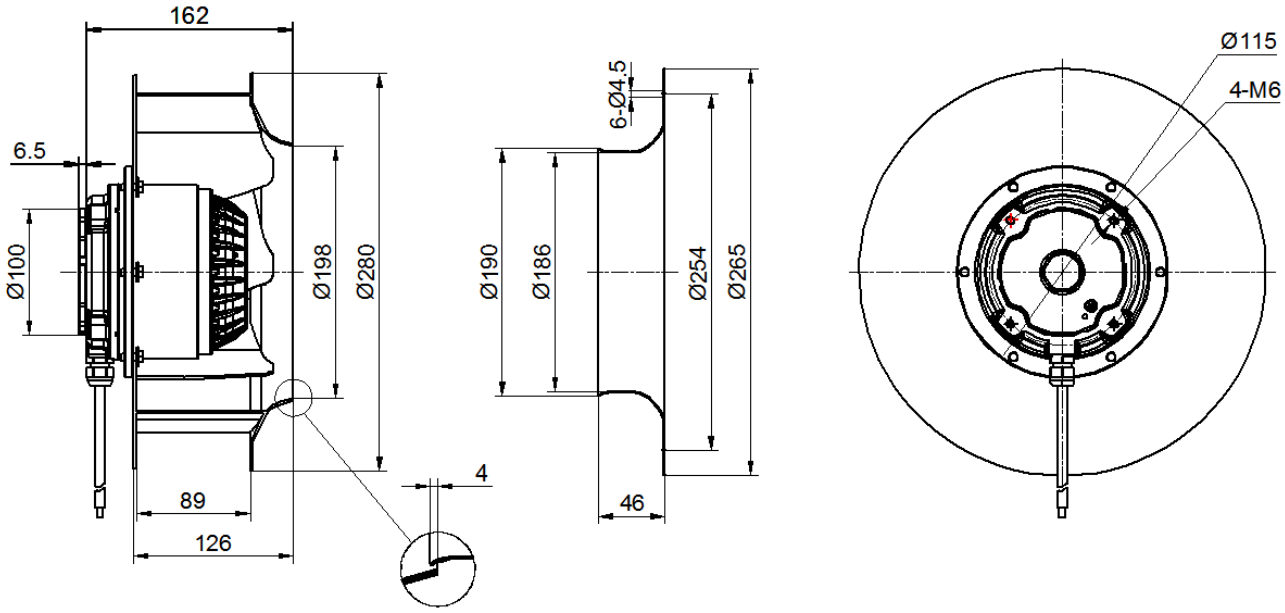
230	50	2595	670	2.92	1594	554	20	574	404	150+189*0
233.8	50	2604	684	2.93	1765	500	25	524	494	150+189*0
232.8	50	2612	692	2.97	1987	450	32	482	249	+189*1
229.4	50	2620	682	3	2117	403	36	439	282	+189*1
229.6	50	2625	671	2.95	2239	348	40	389	315	+189*1
229.8	50	2621	658	2.89	2333	301	44	345	342	+189*1
229.7	50	2627	650	2.85	2454	250	48	298	378	+189*1
227.7	50	2736	640	2.83	2559	202	52	255	411	+189*1
229.4	50	2745	621	2.74	2663	150	57	206	445	+189*1
229.7	50	2755	610	2.68	2759	100	61	161	478	+189*1
229.4	50	2764	597	2.63	2854	51	65	116	511	+189*1
229.7	50	2772	584	2.57	2963	0	70	71	550	+189*1

Dimensions(in mm)



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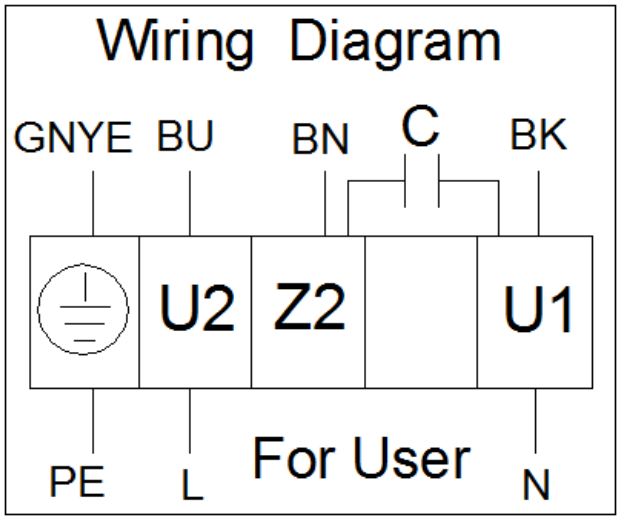
Wiring diagram



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;

★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;

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★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.).

●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;