

Model:YWF(K)6D630-ZX18-B7A

Fan type:AC Axial fan



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## 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:-40°C ~+60°C
- Working environment humidity range: $\leq$ 90%
- Transportation and storage temperature range:-40°C ~+80°C
- Transportation and storage environment humidity range: $\leq$ 80%
- The storage place is well ventilated, corrosive gases not contained.

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## Design, manufacturing, testing standards and certification

- JB-T10562 Technical specification for general purposes axial fans
- GB/T 14711 General safety requirements for Medium and small rotary motor
- GB755/IEC60034-1 rotary motor quota and performance
- 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	22 kg
Size	φ630 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	7
Impeller type	Special-purpose welding blade
Attachment	Hight Concave Guard Grille

## Technical parameters

Supply	3P,342~418V
Frequency	50 Hz
Motor poles	6
Rated voltage	380 VAC
Power input	910 W

# Product specification

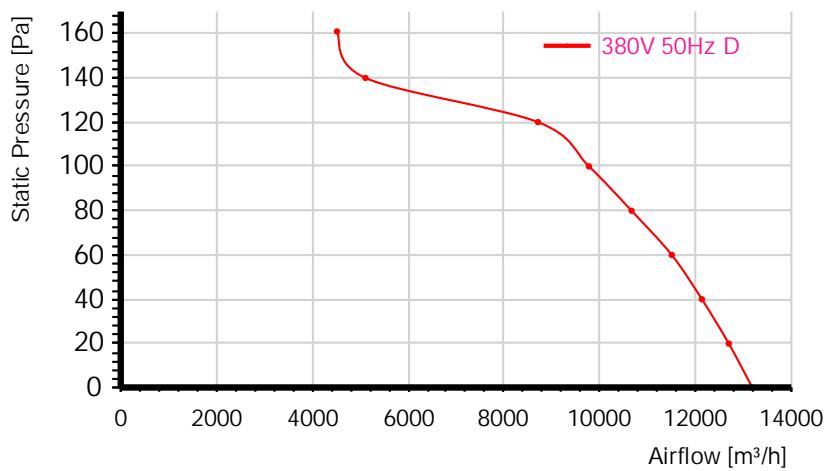
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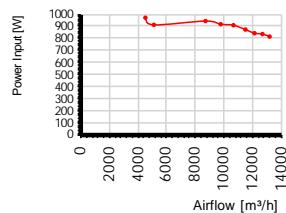
Rated current	2.8 A
Rated speed	940 r/min
Max airflow	13200 m <sup>3</sup> /h (Static pressure=0Pa)
Acoustic	77 dB(A) measured at 1.0m from inlet side

## Performance curve

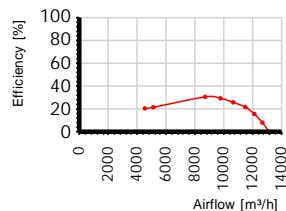
Airflow curve



Power input curve



Efficiency on static pressure



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

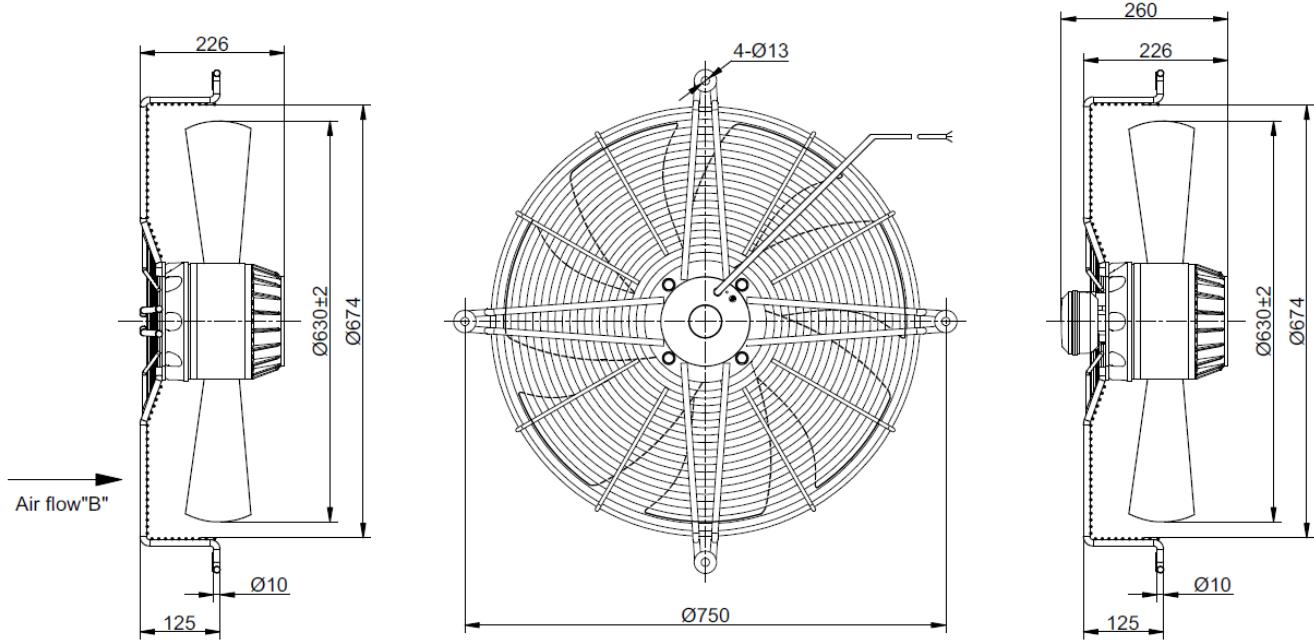
TestID		2019032103		Connection		D	
Test environment							
Outlet size		Outlet area		Temperature		Humidity	
644mm		0.3257 m <sup>2</sup>		18°C		84%	
Test data							

Voltage	Frequency	Speed	Power input	Current	Airflow	Static pressure	Dynamic pressure	Total pressure	Pressure Difference	Nozzle Size
V	Hz	r/min	W	A	m <sup>3</sup> /h	Pa	Pa	Pa	Pa	mm
380.8	50	921	971	2.62	4514	161	9	170	466	150+189*1
377.4	50	925	912	2.51	5109	140	11	152	596	150+189*1
380.3	50	930	943	2.76	8712	120	33	153	216	150+189*4
380	50	932	917	2.74	9775	100	42	142	272	150+189*4
381.1	50	934	909	2.76	10665	80	50	130	219	150+189*5
381	50	936	873	2.72	11505	60	58	118	255	150+189*5
380.1	50	938	843	2.69	12133	40	64	104	283	150+189*5
379.9	50	940	836	2.68	12695	20	70	91	310	150+189*5
380.5	50	942	815	2.67	13190	0	76	76	334	150+189*5

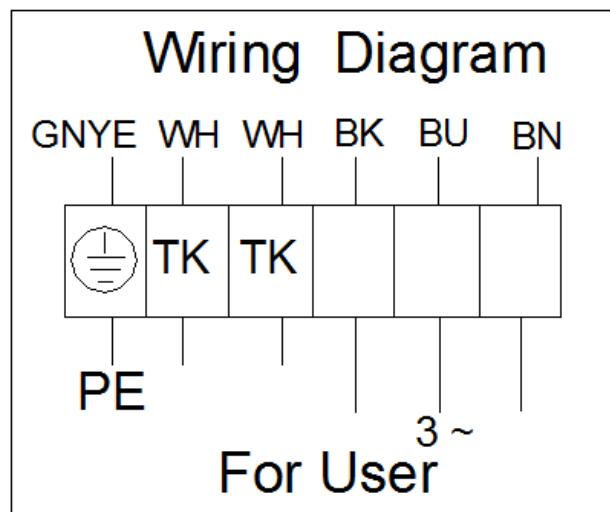
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## Dimensions(in mm)



## 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;

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- ★ 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;
- ★ 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.

## 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°C 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.

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- 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;