



SPECIFICATION

MODEL
K-EC310-R230-23

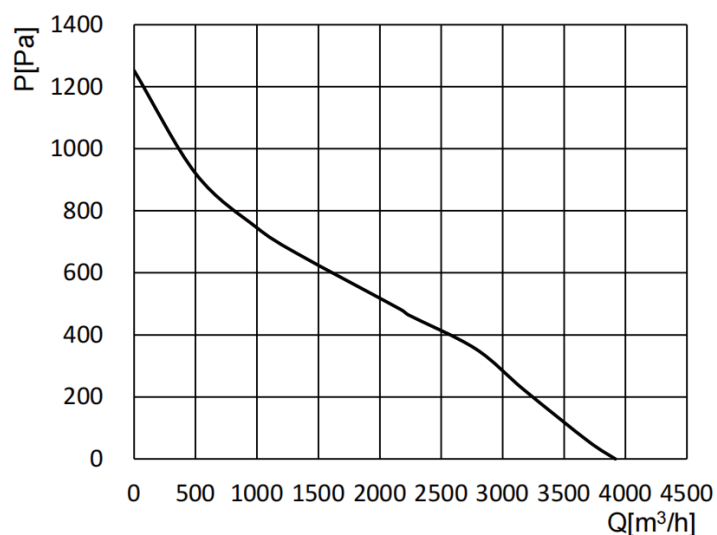
1.Basic Parameters

Phase	1~
Rated Voltage	230VAC
Frequency	50/60Hz
Rated Speed	2300RPM
Max. Input Power	500W
Max. Input Current	2.5A
Sound level	84dB-A
Min. Ambient Temperature	-25°C
Max. Ambient Temperature	+60°C

2.Technical Features

Dimensions	316*316*197.7mm
Material of Impeller	Metal
Direction of Rotation	Clockwise, Seen on Rotor
Surface of Rotor	Spray molding
Type of Protection	IP44
Insulation Class	F
Operation Mode	S1
Bearing Type	Ball Bearing
Motor Protection	Locked Rotor Protection, Thermal Protection, Less and Excessive Voltage Protection, Overcurrent Protection, Soft Start
Length of Cable	500±20mm
RoHS	All Material According with RoHS
Min./Max. Humidity	5%-90% RH
Motor Type	External Rotor EC Motor
Deviation of Impeller in Axial Direction	≤1mm
Deviation of Impeller in Radial Direction	≤1mm

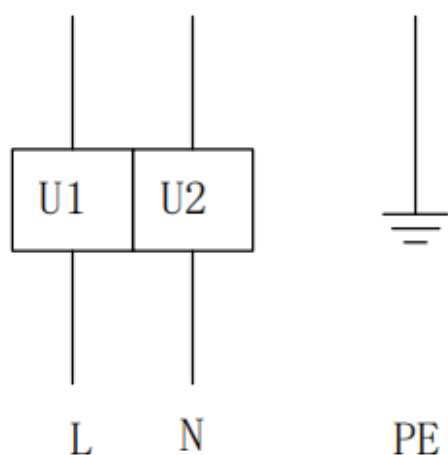
3.Air Performance



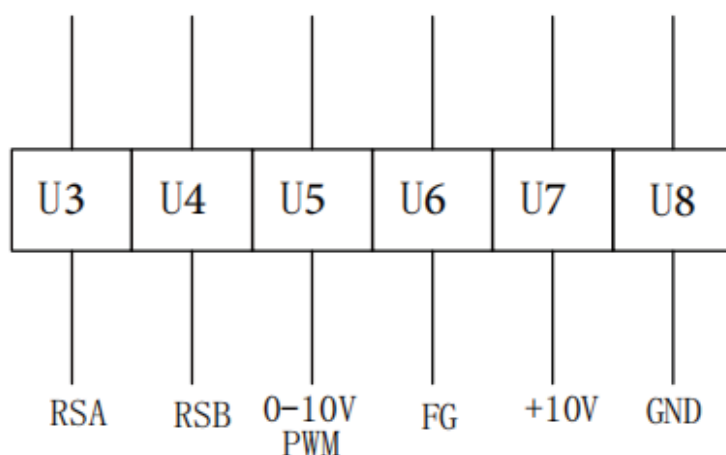
4.Wiring Diagram

Line	Connect	Connect	Colour	Function
Power line		PE	Yellow/Green	Protective Earth
	U1	L	Brown	Firewire
	U2	N	Blue	Zero line
Control line	U3	RSA	Brown	RS485 interface
	U4	RSB	Grey	RS485 interface
	U5	Speed regulation	Yellow	0-10V and PWM compatible line (PWM maximum amplitude 10V)
	U6	Signal output	White	Speed signal output line
	U7	+10V	Red	External output+10VDC
	U8	GND	Blue	Control grounding wire

Power line

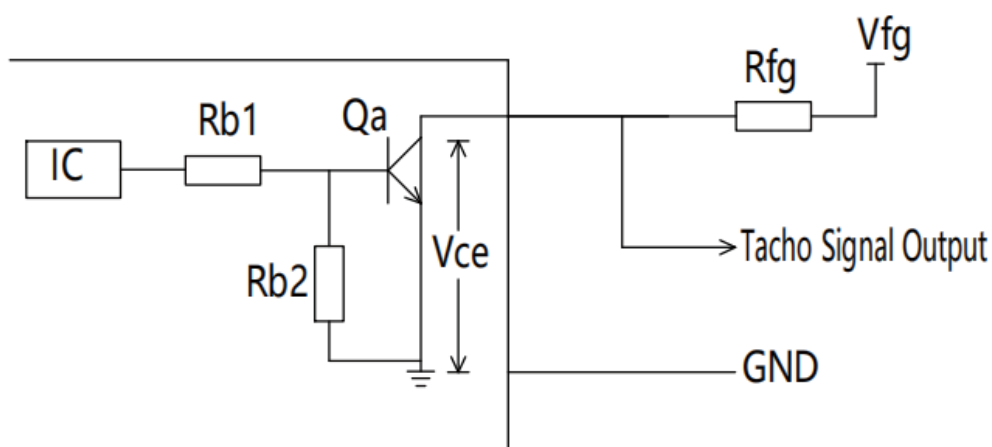


Control line

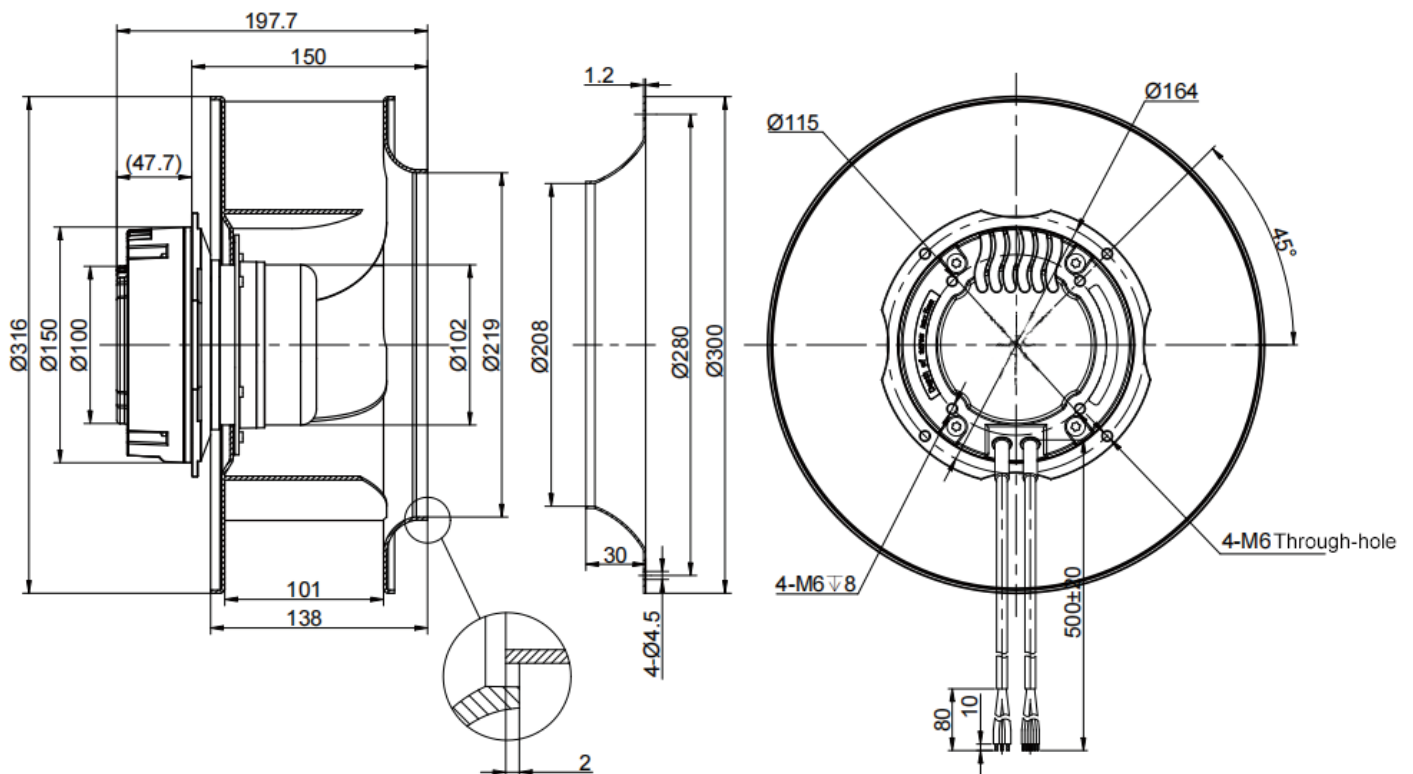


The fan has a speed output signal, and the waveform of the output signal is shown in the figure below. The Vfg and pull-up resistor are the external parts of the customer:

$V_{fg} = (3-30) \text{ VDC}$, $R \geq 1000 \times (V_{fg}) \Omega$



5.Outline Drawing



6.Notes

- 6-1. Please strictly follow the wiring diagram to connect the power and control wires of the fan in order to avoid burning the fan.
- 6-2. Do not directly connect the white signal wire to the red signal wire or external DC power supply.
- 6-3. If the fan does not work after startup, please check the input voltage of the speed regulation, as it may have poor connection. Prevent sudden start of the fan from causing hand or other personal injury; Do not touch the impeller or rotor after power on.
- 6-4. It takes a few seconds to start the fan after it is powered on. To prevent personal injury, do not touch the impeller or rotor when powered on or at low speed.
- 6-5. Fan EMC (test standard EN55014), additional magnetic rings need to be added on the power line.
- 6-6. Unless instructed by personnel responsible for their safety, individuals lacking physical, mental, or sensory abilities and appropriate practical experience or specialized knowledge are not allowed to use this fan. Do not allow children to come into contact with this product.
- 6-7. If the power cord is damaged, it must be replaced by the manufacturer.
- 6-8. As a component of the fan, the motor cannot be used alone without an impeller or load;
- 6-9. If the product packaging needs to be further stored after disassembly, it should be repackaged. The product should be stored in a clean and well ventilated warehouse with an ambient temperature of $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$, a relative humidity of not more than 95%, and there should be no corrosive gases in the air, and it should be at least 15cm above the ground.