Product Specification

Type	EC Backward Curved Centrifugal Fan
Model	BY-B250E-EC-05

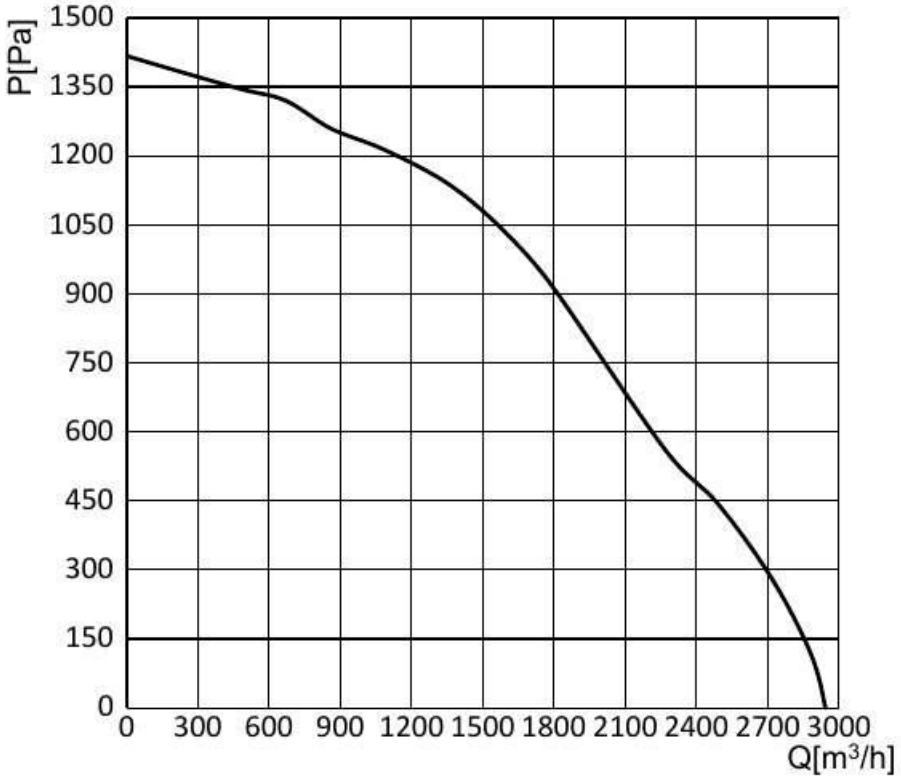
Norminal Data

Phase	~	3
Nominal Voltage	VAC	380
Frequency	Hz	50/60
Nominal Speed	RPM	4100
Max. Input Power	W	750
Max. Input Current	A	1.4
Sound level	dBA	92
Certification	~	CCC、CE
Min. Ambient Temperature	℃	-25
Max. Ambient Temperature	℃	60

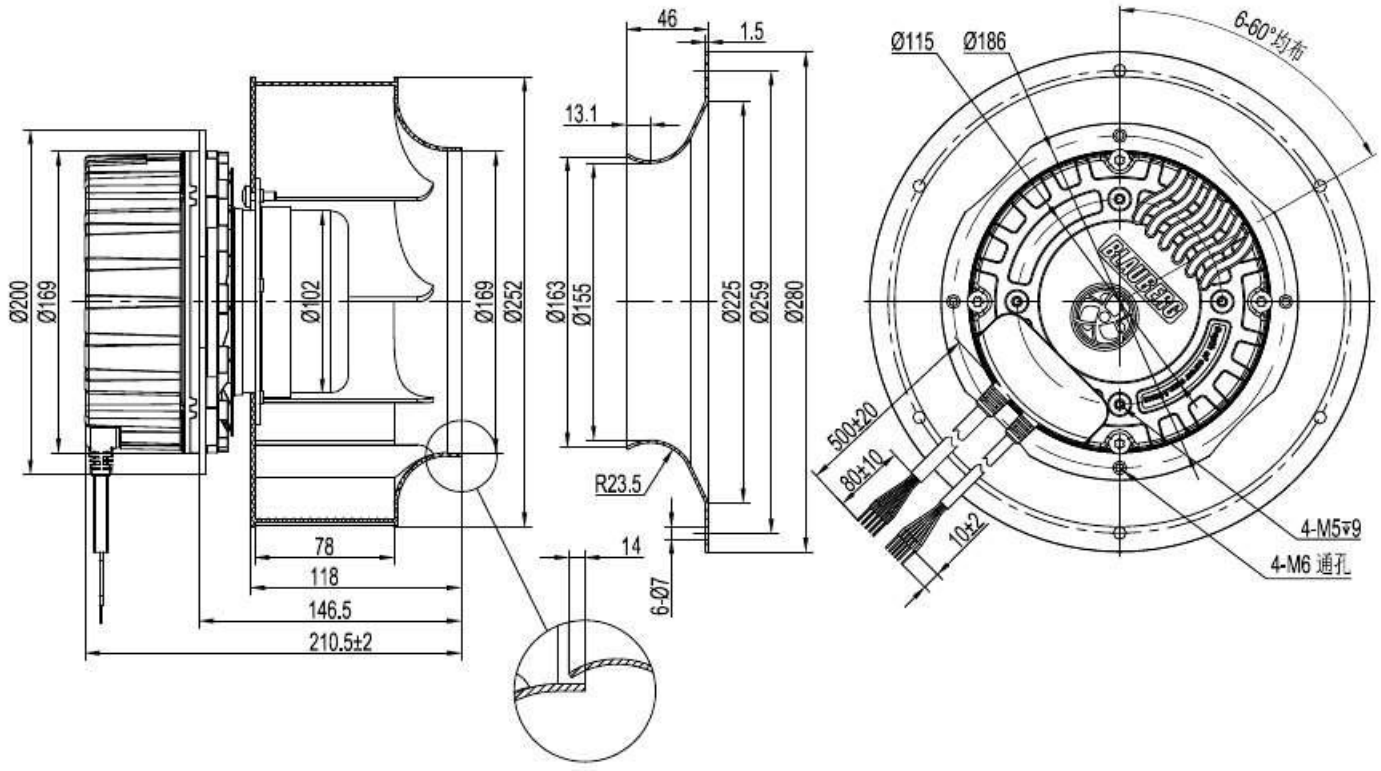
Technical Features

Dimensions	252*252*210.5 mm
Material of Impeller	Metal
Direction of Rotation	Clockwise, Seen on Rotor
Surface of Rotor	Plastic Spraying
Type of Protection	IP55
Insulation Class	F
Operation Mode	S1
Motor Bearing	Ball Bearing
Motor Protection	Locked Rotor Protection, Termal 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	External Rotor EC Motor
Deviation of Impeller In Axial Direction	≤ 1 mm
Deviation of Impeller In Radial Direction	≤ 1 mm

Air Performance



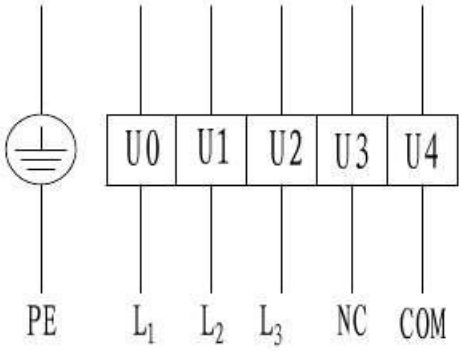
Outline Drawing



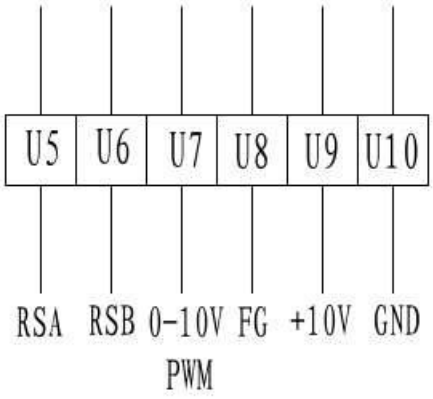
Wiring Diagram

Line	Connection		Colour	Function
Power Line		PE	GreenYellow	Protective earth
	U0	L_1	Blue	Live Wire
	U1	L_2	Brown	Live Wire
	U2	L_3	Black	Live Wire
	U3	NC	White	Normally Closed Switch、Circuit Breaker
	U4	COM	Gray	Common Port
Control Line	U5	RSA	Brown	RS485 Port
	U6	RSB	Rray	RS485 Port
	U7	Speed Control	Yellow	0~10V & PWM Compatible Line (Max. amplitude of PWM 10V)
	U8	Signal Feedback	White	RPM Output Signal Line 5 Pulses/Revolution
	U9	+10V	Red	External Output +10VDC
	U10	GND	Blue	GND

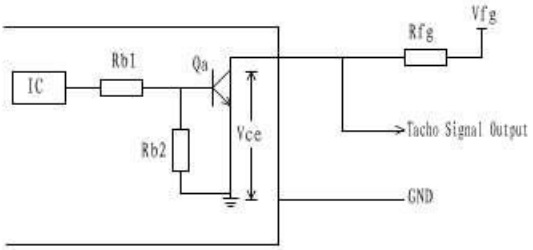
Power Line



Control Line



The fan provides a speed output signal, output signal drawing see under annex. Vfg and pull up resistor are connected by customer. Vfg= (3-30) VDC, R ≥ 1000 × (Vfg) Ω



Additional Notes

1.The power line and control line of the fan should be connected in strict accordance with the wiring diagram to prevent the fan from burning out;

2.Do not connect the white signal wire directly to the red signal wire or the external DC power supply;

3.If the fan does not work after starting, please check the input voltage of the speed regulation, which may be improperly connected. To prevent hand or other personal injury caused by sudden start of the fan; Do not touch the impeller or rotor after electrifying;

4.It takes a few seconds for the fan to start after power on. In order to prevent personal injury, do not touch the impeller or rotor under the condition of power or low speed;

5.Fan EMC (test standard EN55014), additional magnetic ring on the power line required;

6.Persons lacking physical, mental or sensory abilities and appropriate practical experience or expertise cannot use the fan unless directed by a person responsible for its safety. Keep out of reach of children;

7.If the power line is damaged, the manufacturer must replace the power cord;

8.As a part of the fan, the motor cannot be used alone without impeller or load;

9.After the product packaging has been disassembled, it should be repackaged if it needs to be kept in storage. The product shall be stored in a clean, well-ventilated warehouse with ambient temperature of -40℃~+80℃, relative humidity of no more than 95%, no corrosive gases in the air, and 15cm above the ground.