

BL-F200B-EC-07

EC Forward Curved Centrifugal Fan



Product Overview

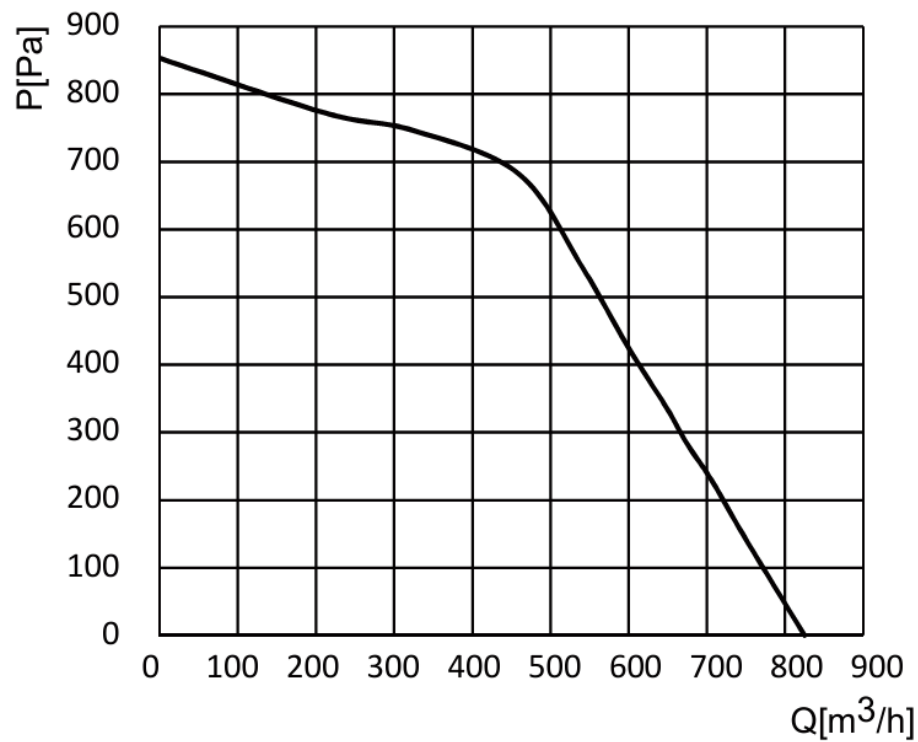
The BL-F200B-EC-07 is a compact 230 VAC electronically commutated forward curved centrifugal fan. It combines a plastic impeller, 0–10 V/PWM speed control, tachometer feedback and integrated motor protection for HVAC and equipment-cooling applications.

Key characteristic	Value
Maximum airflow	Approx. 820 m³/h
Maximum static pressure	Approx. 850 Pa
Nominal voltage	230 VAC, 50/60 Hz
Nominal speed	2450 RPM
Maximum input power	203 W
Control	0–10 VDC / PWM
Protection / insulation	IP55 / Class B

Technical Data

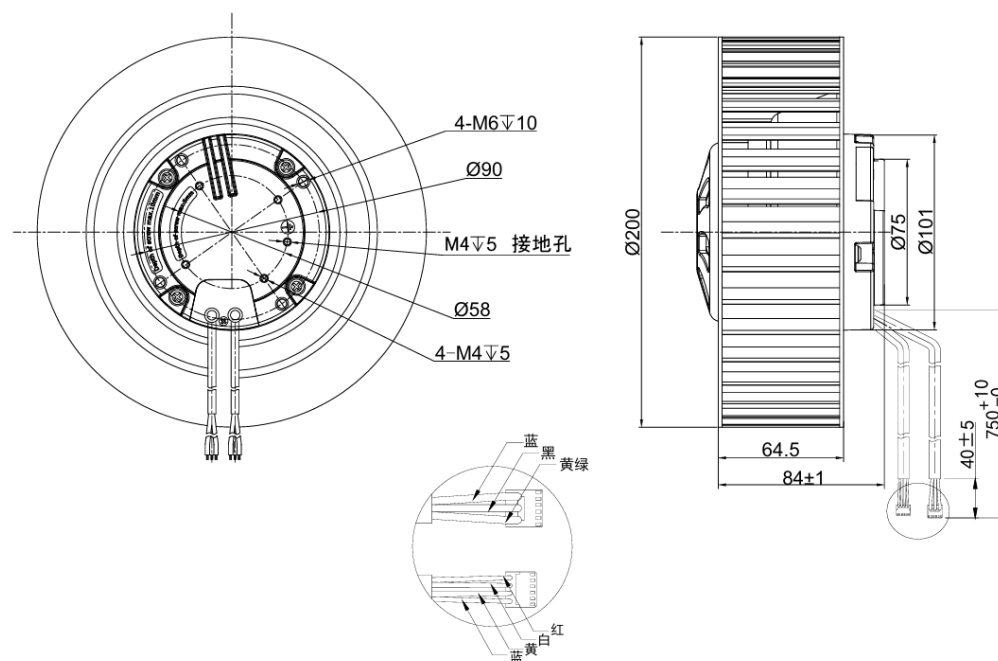
Parameter	Specification	Parameter	Specification
Type	EC forward curved centrifugal fan	Phase	Single phase (1~)
Nominal voltage	230 VAC	Frequency	50/60 Hz
Nominal speed	2450 RPM	Max. input current	1.5 A
Max. input power	203 W	Sound pressure	70 dB(A)
Ambient temperature	-25 to +60 °C	Operating mode	S1 continuous duty
Overall dimensions	200 × 200 × 84 mm	Impeller	Plastic
Rotation	Clockwise viewed from rotor side	Rotor finish	Powder coated
Protection	IP55	Insulation class	Class B
Bearing	Ball bearing	Motor protection	Locked-rotor, thermal, over/undervoltage and overcurrent protection; soft start
Cable	750 mm	Humidity	5–90% RH
Motor type	External-rotor EC motor	Impeller runout	Axial ≤0.5 mm; radial ≤0.5 mm
Certifications	CCC, CE, RoHS	Storage	-40 to +80 °C; RH ≤95%

Air Performance



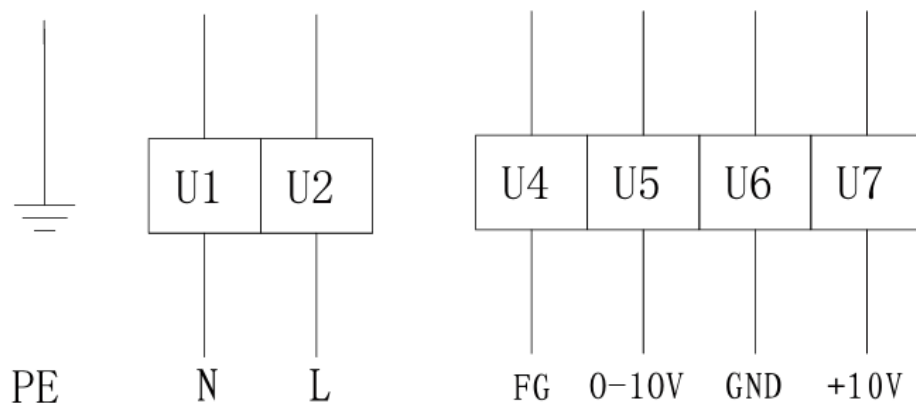
Air performance curve

Overall Dimensions



Dimensions in millimetres

Electrical Connection



Line	Connection	Designation	Colour	Function / Assignment
Power	—	PE	Green/Yellow	Protective earth
Power	U1	N	Blue	Neutral conductor
Power	U2	L	Brown	Live conductor
Control	U4	FG	White	Speed-feedback output
Control	U5	Speed control	Yellow	0–10 V/PWM compatible input
Control	U6	GND	Blue	Control reference ground
Control	U7	+10 V	Red	Control-power output

Note

1. Connect power and control conductors strictly according to the wiring diagram.
2. Do not connect the white signal conductor directly to the red signal conductor or an external DC supply.
3. If the fan does not start, check the speed-control input. Never touch the impeller or rotor while energised.
4. Startup may take several seconds. Do not touch the impeller or rotor while energised or at low speed.
5. Only persons with appropriate capability and technical experience may use the fan without supervision. Keep children away.
6. A damaged power cable must be replaced by the manufacturer.
7. Do not operate the motor alone without an impeller or load.
8. Store the repacked product at -40 to +80 °C, RH ≤95%, in a clean ventilated area free of corrosive gases and at least 15 cm above the floor.
9. Read this specification carefully before use.