

TECHNICAL SPECIFICATION

Type	EC Backward-Curved Centrifugal Fan
Model	GC-B250B-EC-M1

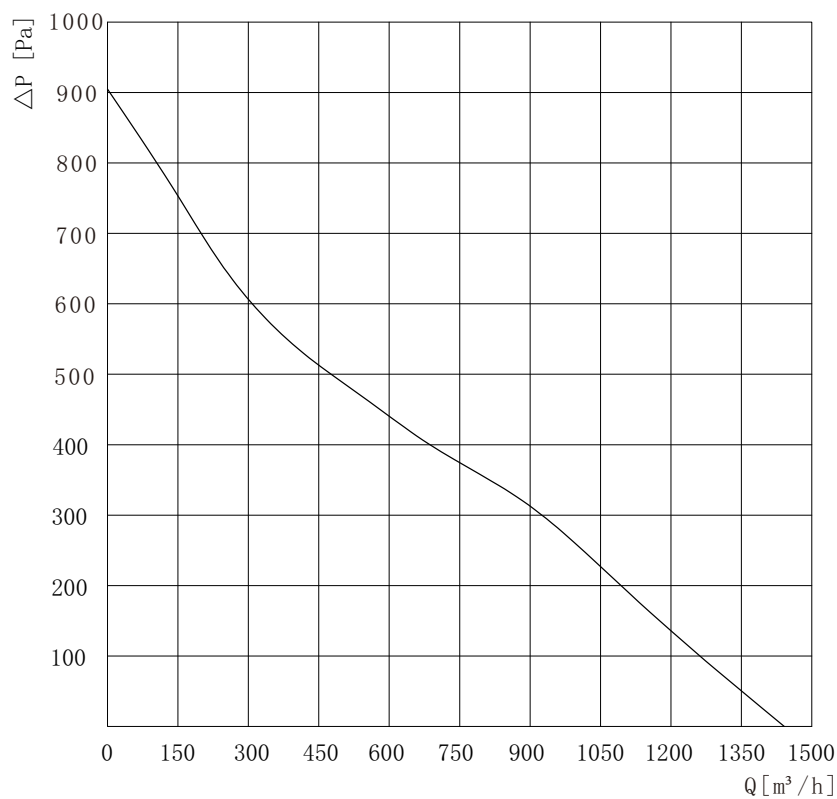
STANDARD PARAMETERS

Phase	~	1
Rated Voltage	VAC	115
Frequency	Hz	50/60
Speed	RPM	2570
Max. Input Power	W	CCC, RoHS
Max. Input Current	A	
Noise Level	dBA	71
Certifications	~	CCC, RoHS
Min. Ambient Temperature	°C	-25
Max. Ambient Temperature	°C	60

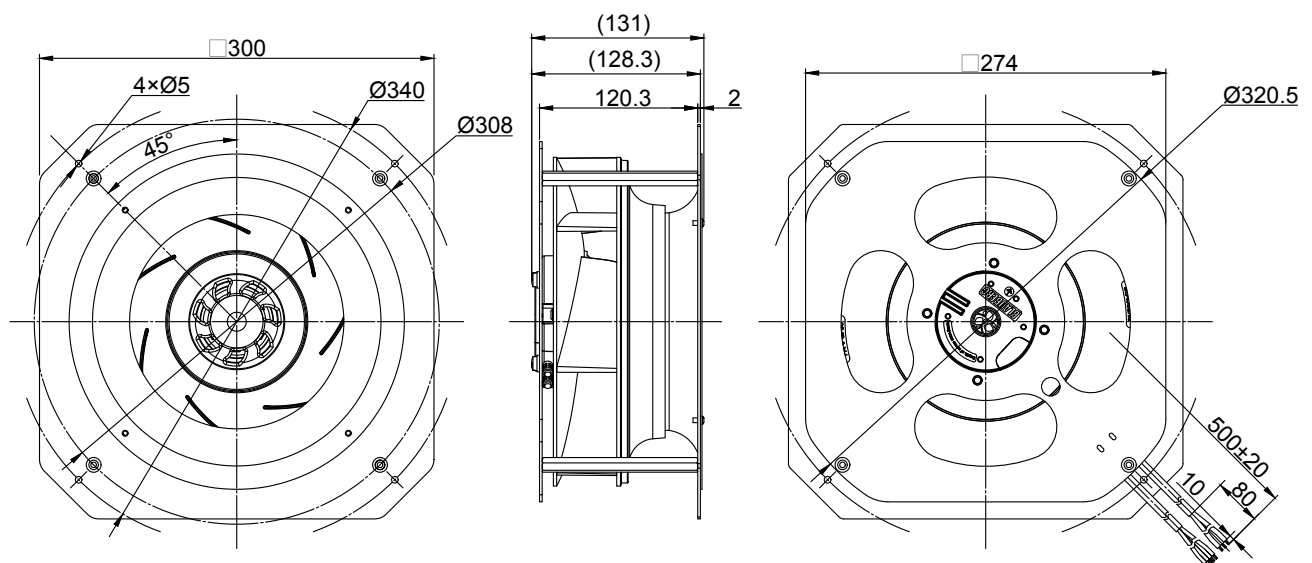
TECHNICAL PARAMETERS

Dimensions (L x W x H)	300*300*120.3 mm
Impeller Material	Plastic
Direction of Rotation	Clockwise (viewed from rotor end)
Rotor Surface Finish	Powder coating
Degree of Protection	I P55
Insulation Class	B
Duty Type	S1
Bearing Type	Ball bearings
Motor Protection	Locked-rotor, thermal, over/undervoltage protection
Lead Length	500±20mm
ROHS	All components comply with RoHS
Operating Humidity	5%-90% RH
Motor Type	External-rotor EC motor
Impeller Axial Runout	≤0.5 mm
Impeller Radial Runout	≤0.5 mm

PERFORMANCE CURVE



DIMENSIONAL DRAWING



WIRING DIAGRAM

Lead	Connection		Color	Function
Power Cable	PE		Yellow/Green	Protective earth
	U1	L	Brown	Line
	U2	N	Blue	Neutral
Control Cable	U4	+ 10V	Red	Control voltage +10 V
	U5	0-10 V speed input	Yellow	0-10 V / PWM speed input
	U6	FG	White	Speed output: 2 pulses/rev
	U7	GND	Blue	Control ground

Power Cable

CONTROL CABLE

NOTES

1. Connect the power and control cables strictly in accordance with the wiring diagram to prevent damage to the fan.
2. Do not connect the white signal wire directly to the red signal wire or to an external DC power supply.
3. If the fan does not run after power-on, check the speed-control input voltage and all related connections. To prevent injury from unexpected startup, do not touch the impeller or rotor while power is applied.
4. The fan may take several seconds to start after power is applied. To prevent personal injury, do not touch the impeller or rotor while energized or operating at low speed.
5. This fan must not be used by persons with reduced physical, sensory, or mental capabilities, or by persons lacking relevant experience or knowledge, unless supervised or instructed by a person responsible for their safety. Keep children away from this product.
6. If the power cable is damaged, it must be replaced by the manufacturer.
7. The motor is a component of the fan and must not be operated independently without the impeller or load.
8. If continued storage is required after opening the packaging, repack the product. Store it in a clean, well-ventilated warehouse at -10°C to +40°C and no more than 75% relative humidity. The air must be free of corrosive gases, and the product must be stored at least 15 cm above the floor.
9. Read this technical specification carefully before use.