BL-F160B-EC-00

EC Forward Curved Centrifugal Fan - Product Specification

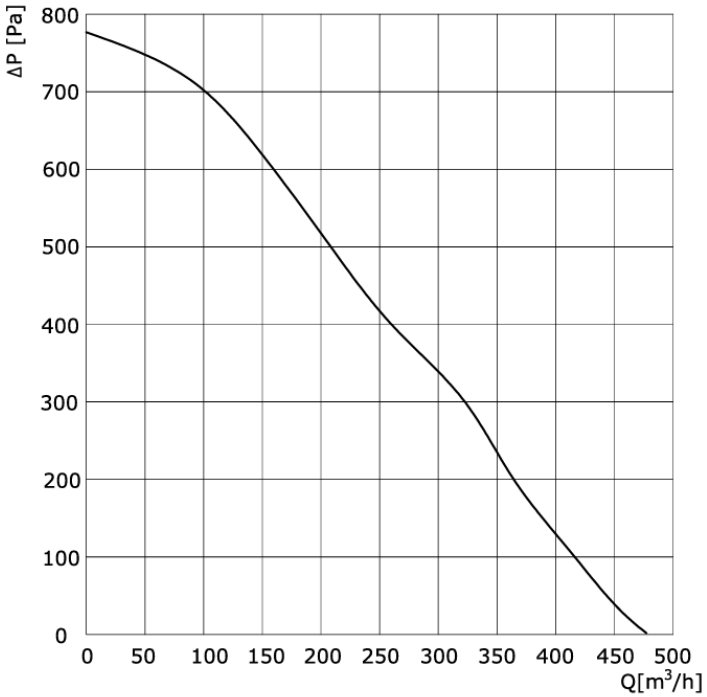
Basic Parameters

Item	Value	Item	Value
Phase	1~	Rated voltage	230 VAC
Frequency	50/60 Hz	Rated speed	2200 RPM
Max. input power	85 W	Max. input current	0.65 A
Sound level	62 dB(A)	Ambient temperature	-25 to +60 deg C
Certification	CCC, RoHS	Protection	IP55

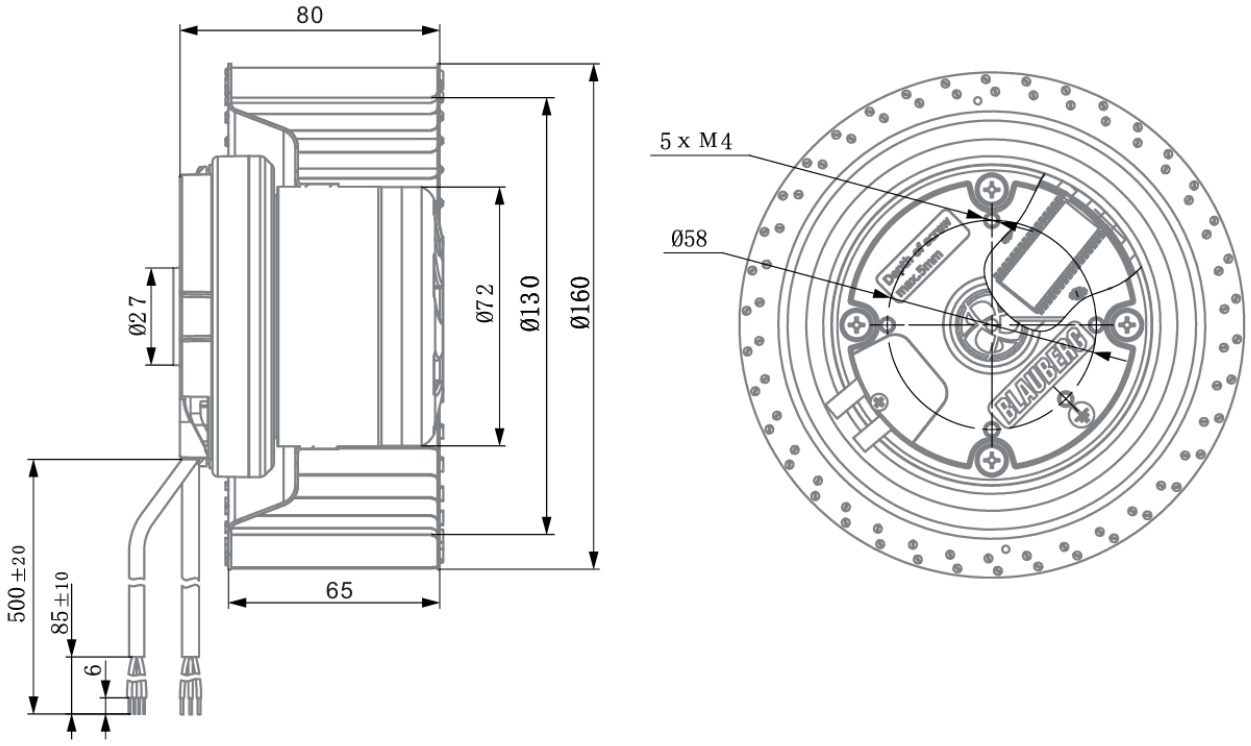
Technical Features

Item	Specification
Dimensions	160 x 160 x 80 mm
Impeller material	Plastic
Direction of rotation	Clockwise, viewed from rotor side
Rotor surface	Powder coating
Insulation / duty	Class B / S1
Bearing	Ball bearing
Motor protection	Locked rotor, thermal, under/overvoltage and overcurrent protection
Cable length	500 +/- 20 mm
Humidity	5% to 90% RH
Motor type	External rotor EC motor
Impeller runout	Axial <= 0.5 mm; radial <= 0.5 mm

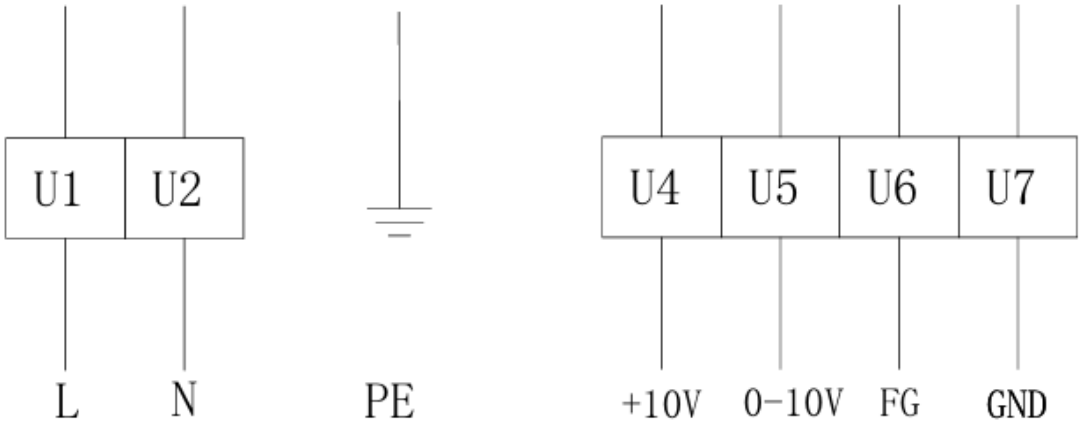
Air Performance



Overall Dimensions



Electrical Connection



Line	Conn.	Designation	Colour	Function / Assignment
Power		PE	Green/Yellow	Protective earth
Power	U1	L	Brown	Live wire
Power	U2	N	Blue	Neutral wire
Control	U4	+10V	Red	Control power output
Control	U5	Speed control	Yellow	0-10 V / PWM compatible input
Control	U6	Signal feedback	White	RPM output signal
Control	U7	GND	Blue	Control ground

Note

1	Connect the power and control lines strictly according to the wiring diagram.
2	Do not connect the signal-feedback wire directly to the +10 V wire or an external DC supply.
3	If the fan does not start, check the speed-control input voltage and wiring.
4	The fan may take several seconds to start. Do not touch the impeller or rotor while energized.
5	Only persons with suitable physical, sensory and mental capability and relevant experience may use the fan unless supervised by a person responsible for safety. Keep children away from the product.
6	If the power cable is damaged, it must be replaced by the manufacturer.
7	Do not use the motor alone without the impeller or load.
8	Store the repacked product in a clean, ventilated warehouse at -10 deg C to +40 deg C and no more than 75% RH, free of corrosive gases and at least 15 cm above the floor.
9	Read this specification carefully before use.