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German Blauberg Group China representative office.

Add. : No. 8, Zhu Street, Suzhou Industrial Park, Suzhou, Jiangsu, China

Tel. : 0512-65562316

Web. : blauberg-motoren.cn

Blauberg Group

Add. : Aidenbachstr. 52a D-81379 Munich

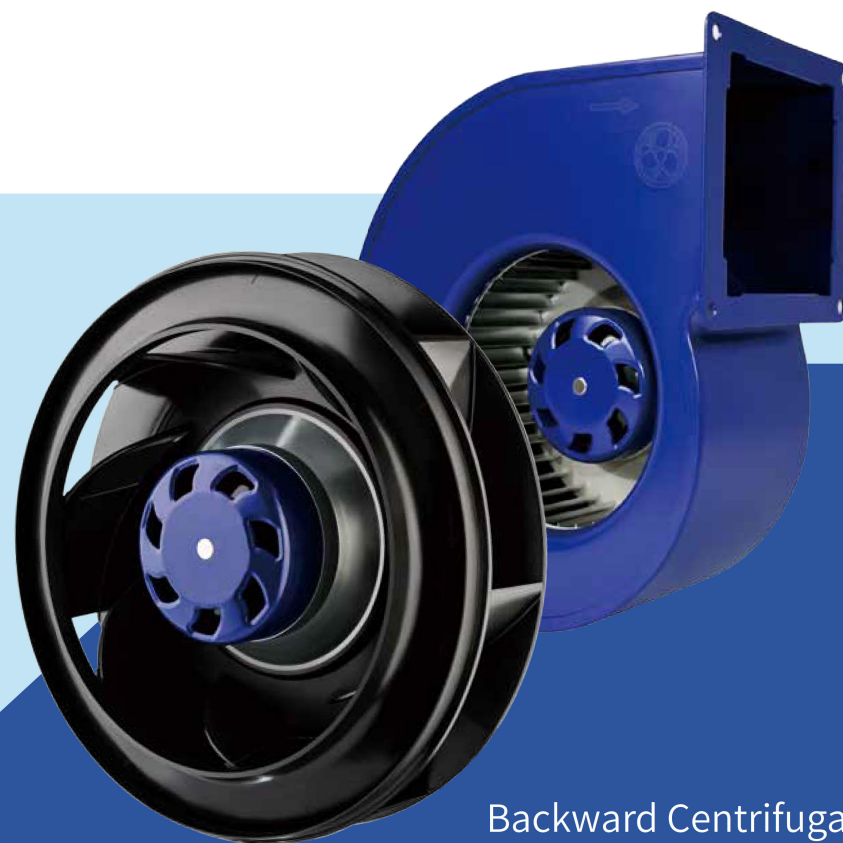
Tel. : +49(0)89 785 08 088

Web. : +49(0)89 785 69 521

Web. : blauberg-motoren.com

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Backward Centrifugal Fans
(N.F. SERIES)

2023 CATALOGUE



HORST HAHN

德国博乐监事会主席

Dear colleagues,

BLAUBERG Group of Companies was established in the Kingdom of Bavaria in the South of the German Empire almost 115 years ago.

During this time we have worked our way up from a small chimney manufacturer to a leading ventilation company.

We owe our success due to:

- Innovativeness of the large army of our engineers and designers.
- Hard work and efficiency of thousands of our employees.
- A wise policy of hundreds of managers who are running the business in our branch offices worldwide.

We have created a lot of revolutionary solutions in the of ventilation and have always been one step ahead of the market.

But our main achievement is as follows:

Over a century customers and distributors worldwide have learnt at first hand that BLAUBERG is a reliable partner producing fans of reliable quality.

These are the traditions of the Bavarian land and we scrupulously follow those. Our customers, moving into a new house, sometimes take a fan bought by their fathers 30 years ago with them. We certainly would like to offer them our new models, but we are proud of a long service life of our products.

Many of our European colleagues have come to China many years ago with the main purpose to produce cheap goods in your country for the European market.

We have not done that. We have always created and produced all our products by ourselves.

Today we have come to your country for another purpose. We understand that you need our modern, efficient climate control equipment.

In the first stage, we offer only products manufactured at our plants in Europe.

In the nearest future we will build the BLAUBERG-China Plant and will produce ventilation products for you all together.

We hope to find many partners, friends and associates in your country.

Best wishes, Head of the Supervisory Board
HORST HAHN

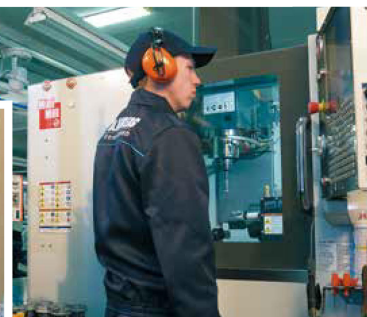
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Blauberg Group manufactures and sells a complete range of hi-tech energy-efficient ventilation equipment offering a balanced mix of innovative technology, contemporary design and traditional German quality.

The group's main products include domestic fans, single-room ventilation units, heat recovery units, industrial fans and air handling units, parts and accessories for customized system configurations as well as bespoke ventilation solutions. Due to our product diversity, we do our best to meet the individual needs of our clients in various countries with the best combination of price and quality.



Blauberg Motoren was born in Munich, Germany, like own direction of fans and motors manufacturing and integral part of Blauberg Group.

Starting with manufacturing AC motors with external rotors for own needs, for now Blauberg Motoren produce wide range of motors and fans with EC and AC technology for clients all around the world. It includes axial fans, backward curved fans, forward curved fans, blowers.

We are proud to be presented in products of our clients — world famous manufactures of ventilation, heat, home appliance and other equipment, and be part of their success.

For now Blauberg Motoren have R&D (research and development) center in Munich (Germany), as well as main testing laboratories for products and factories in Germany (Munich), Ukraine (Kiev) and Poland.

Every day we are working with our passion and respect to technology and engineering to make our products better – more responsive to needs and expectations of our clients.

With traditional German quality, we are focused on developing and improving best one and newest technology – in our own manufacturing and in our products.

FAN MOTORS

THE MOTORS ARE POWERED BY DIRECT OR ALTERNATING CURRENT.

- A direct current motor is powered by a direct power supply.
- An alternating current motor is powered by an alternating power supply.

Alternating current motors are the most widely used motors because the basic electric grid in the country has alternating power supply.

ALTERNATING CURRENT MOTORS HAVE TWO TYPES:

- **Synchronous** electric motors are alternating current motors with a rotor that rotates synchronously with a magnetic field;
- **Asynchronous** electric motors are alternating current motors with the magnetic field frequency exceeding the motor rotation speed.

Asynchronous motors

Nowadays the asynchronous electric motors find wide application.

Asynchronous electric motors consist of two basic components, the stator and the rotor.

The stator is a fixed motor component. On the inner side the stator has some slots for laying of three-phase cable winding that is powered by three-phase current. The rotor is a rotating part of the motor and also has slots for inserting the cable winding. The rotor and the stator are assembled of separate 0.35-0.5 mm thick electrotechnical steel pressed plates.

Separate plates are insulated from each other with a varnish layer. The air gap between the stator and the rotor is kept as low as possible: 0.3-0.35 mm for low capacity machinery and 1.0-1.5 for more powerful machinery.

Depending on the rotor design the asynchronous motors are available in short circuit modification and phased modifications. Short circuit motors are the most widely used motors because of their simple design and easy operation. The three-phase stator winding is inserted inside the slots and consists of a number of interconnected coils. Each coil consists of one or several turns which are insulated against each other and against the slot walls.

THE ASYNCHRONOUS ELECTRIC MOTOR WITH SHORT CIRCUIT ROTOR HAS THE FOLLOWING ADVANTAGES:

- Permanent speed at various loads.
- Resistance to short-term mechanical overloads.
- Easy structure.
- Easy start-up.
- Higher $\cos \phi$ and efficiency compared to electric motors with phased rotor.

The design of the asynchronous electric motor with external rotor is similar to that of the standard asynchronous electric motor.

The only difference is the position of the rotor. The electric rotor motor is located inside the stator winding and the stator with turns is located in the electric motor center. This configuration provides a compact size of the ventilation unit. The electric motor shaft is carried by ball bearings fixed inside the stator and the impeller is fixed in the rotor casing. Such a design provides air cooling of the electric motor which makes it applicable for a wide temperature range. The electric motors are assembled with the impellers and are subjected to static and dynamic balancing in compliance with DIN ISO 1940. The motors have an integrated overheating protection with automatic restart.

All the motors have 100 % controllable speed range. Speed control is performed with a transformer or electronic devices. Explosionproof motors are controlled exclusively by transformers within 25% up to 100% of the rated voltage range. Speed control is performed by voltage change whereas the frequency in the grid remains the same. The electric motor speed is smoothly decreased as power voltage drops or is increased as power voltage rises. The motor can also be controlled with a frequency converter.

ADVANTAGES OF THE ASYNCHRONOUS ELECTRIC MOTOR WITH EXTERNAL ROTOR:

- Long service life.
- Light weight and small overall dimensions.
- Easy assembly and installation.
- Aligned impeller and electric motor.
- Regulated air capacity.
- Low energy demand during start-up.

EC motors

The electric motor with high-efficient EC motor is a synchronous direct current motor driven by an electronic commutating unit (controller). It has no friction and wearing parts as a collector or brushes, unlike the standard motor. The function of these parts is performed with the maintenance-free electronic circuit of the EC controller.

The EC technology is the state-of-the-art method for arrangement of energy saving and high efficient ventilation.

The energy demand of EC motors is by 50% less as compared to standard motors and efficiency reaches 90%.

These new electric motors are featured with high performance, low noise level and controllable total speed range. The electronic EC-controller enables some other smart functions, e.g. fan control according to measured temperature, pressure and other parameters.

A unique software ensures high control accuracy for fans integrated into a single network. Parameters of a single fan integrated into a common network may be centrally corrected to match the ventilation system parameters. All the system parameters are displayed online on a computer. This enables programming individual operation modes of each fan in the system. This technology enables also programming custommade settings to meet individual customer requirements.

ADVANTAGES OF EC MOTORS:

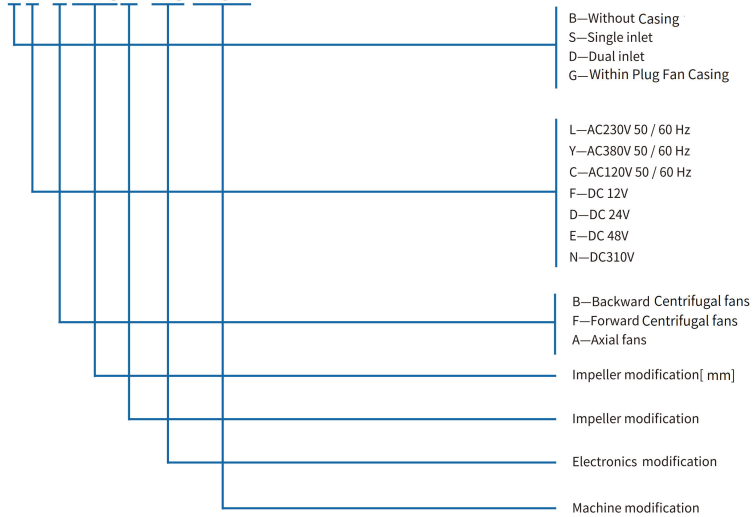
- Efficient performance at any rotation speed of the fan, including very low speed.
- Low heat emission.
- Small overall dimensions of the unit due to external rotor design.
- Maximum fan rotation speed does not depend on frequency in the grid.
- The fan is suitable for connection both to 50 Hz and 60 Hz power mains.
- High efficiency at low rotation speed.
- Energy demand is by 1/3 less as compared to standard motors.
- Data interchange between PC and fan for parameter setting and control.
- Integration of all fans into a unified system and their centralized control.



TYPE KEY

FANS

BD-B175B-EC-N02



DC Backward Centrifugal Fans

Ø 133 mm BACKWARD CURVED

DC CENTRIFUGAL FAN

DC

Centrifugal fans
(backward curved)



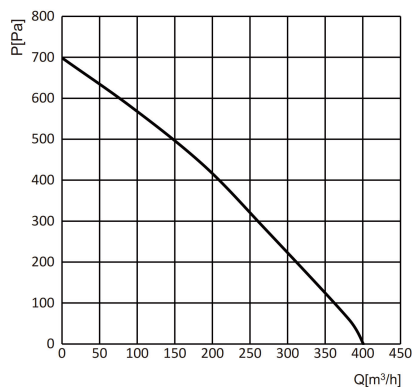
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

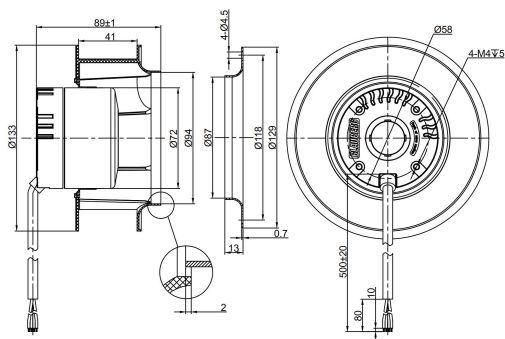


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BD-B133A-EC-N00	24	-	5000	85	3.6	70	-25... +60	D
BE-B133A-EC-N00	48	-	5000	85	1.8	70	-25... +60	D



Overall Dimensions



Ø 133 mm BACKWARD CURVED

DC CENTRIFUGAL FAN

DC

Centrifugal fans
(backward curved)



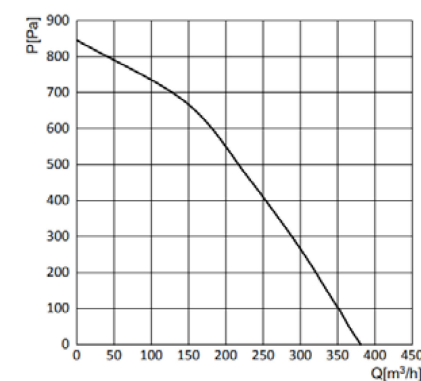
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

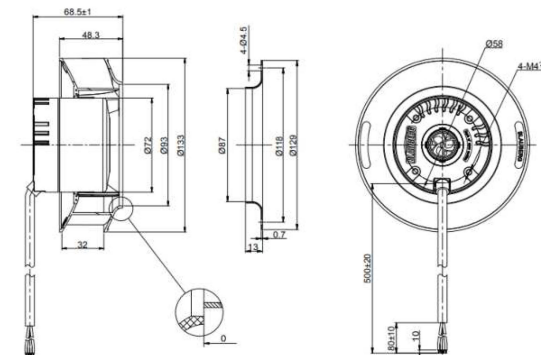


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BD-B133B-EC-N00	24	-	5700	85	3.6	74.5	-25... +60	D
BE-B133B-EC-N00	48	-	5700	85	1.8	74.5	-25... +60	D



Overall Dimensions



Ø175 mm BACKWARD CURVED

DC CENTRIFUGAL FAN

DC
Centrifugal fans
(backward curved)



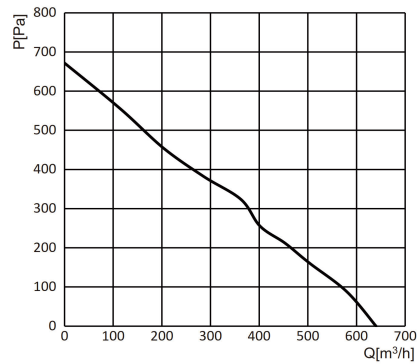
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

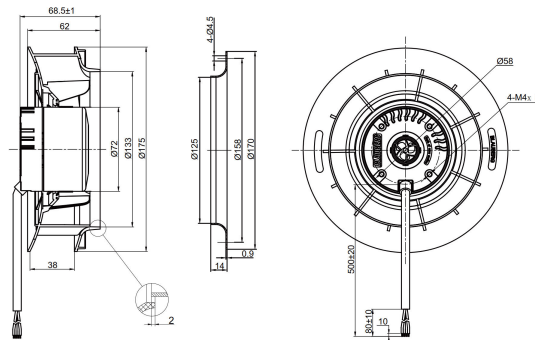


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BD-B175B-EC-N00	24	-	3750	82	3.7	70.8	-25...+60	D



Overall Dimensions



Ø175 mm BACKWARD CURVED

DC CENTRIFUGAL FAN

DC
Centrifugal fans
(backward curved)



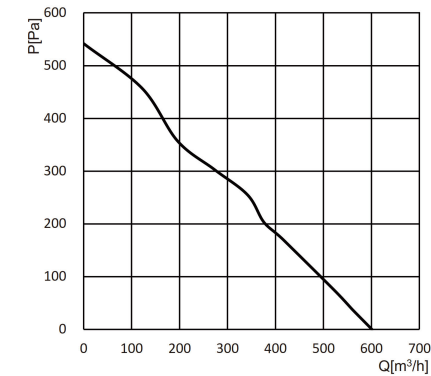
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

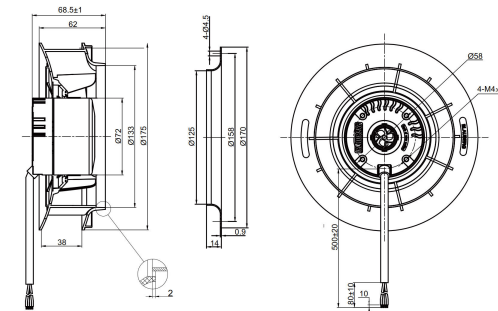


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BE-B175B-EC-N00	48	-	3300	58	1.3	70	-25...+60	D



Overall Dimensions



Ø175 mm BACKWARD CURVED

DC CENTRIFUGAL FAN

DC
Centrifugal fans
(backward curved)



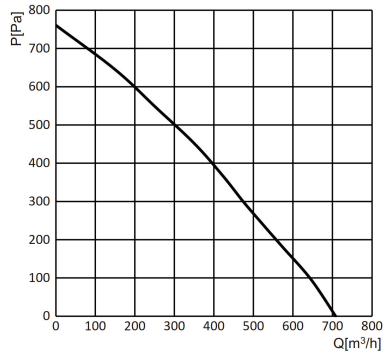
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

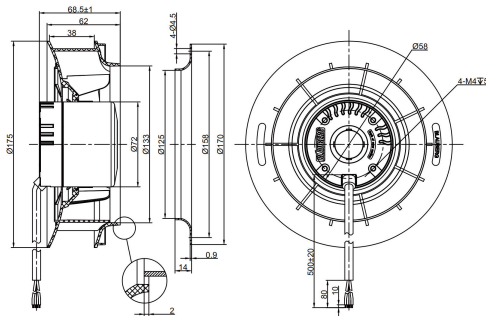


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BD-B175B-EC-N02	24	-	4550	100	4.2	77	-25... +60	D
BE-B175B-EC-N02	48	-	4550	100	2.1	77	-25... +60	D



Overall Dimensions



Ø190 mm BACKWARD CURVED

DC CENTRIFUGAL FAN

DC
Centrifugal fans
(backward curved)



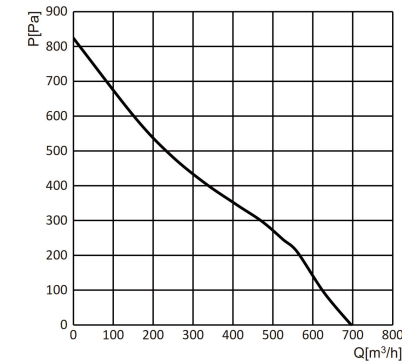
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

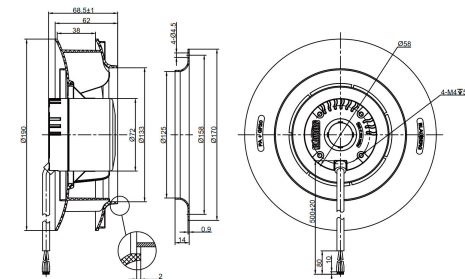


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BD-B190B-EC-N02	24	-	3700	100	4.2	75	-25... +60	D
BE-B190B-EC-N02	48	-	3700	100	2.1	75	-25... +60	D



Overall Dimensions



Ø190mm BACKWARD CURVED

DC CENTRIFUGAL FAN



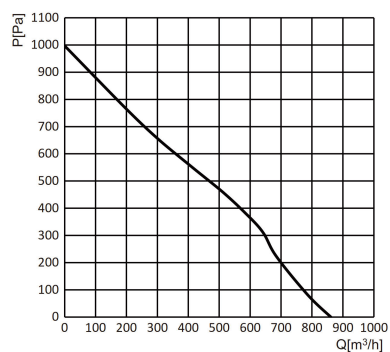
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

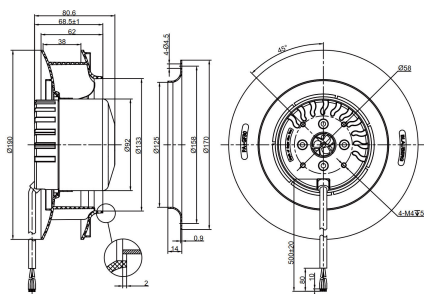


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp.[°C]	Electrical connection
BD-B190B-EC-N07	24	-	4500	170	7.1	79	-25...+60	D
BE-B190B-EC-N07	48	-	4500	170	3.6	79	-25...+60	D



Overall Dimensions



Ø220mm BACKWARD CURVED

DC CENTRIFUGAL FAN



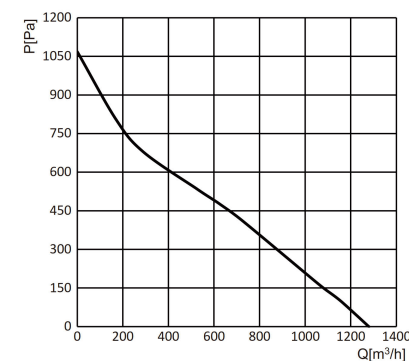
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

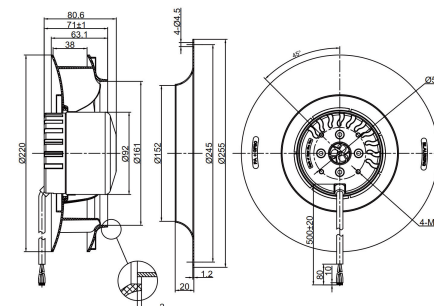


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp.[°C]	Electrical connection
BD-B220C-EC-N07	24	-	3500	170	7.1	75	-25...+60	D
BE-B220C-EC-N07	48	-	3500	170	3.6	75	-25...+60	D



Overall Dimensions



Ø225 mm BACKWARD CURVED

DC CENTRIFUGAL FAN



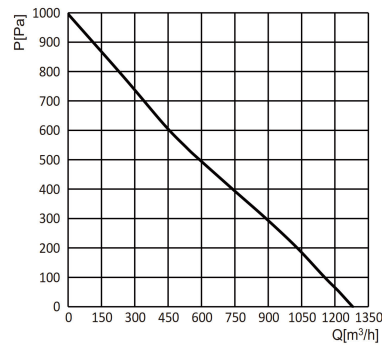
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: plastic
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

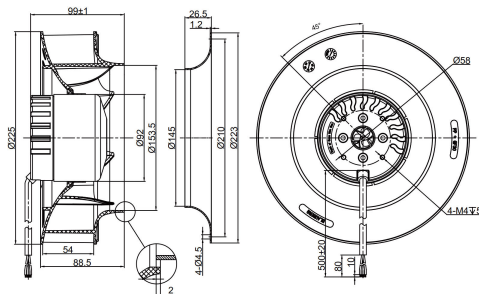


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BD-B225B-EC-N07	24	-	3100	170	7.1	77	-25...+60	D
BE-B225B-EC-N07	48	-	3100	170	3.6	77	-25...+60	D



Overall Dimensions



Ø 250mm BACKWARD CURVED

DC CENTRIFUGAL FAN



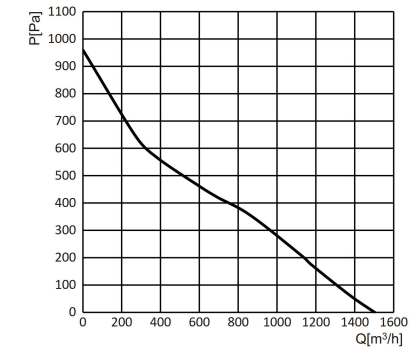
Features

- o Speed Control: 0~10V DC /PWM
- o Direction of rotation: clockwise, seen on rotor
- o Impeller material: plastic
- o Type of protection: IP44
- o Insulation class: B
- o Mode of operation: continuous operation (S1)
- o Bearing: ball bearings
- o Motor protection: self-resetting TOP wired internally

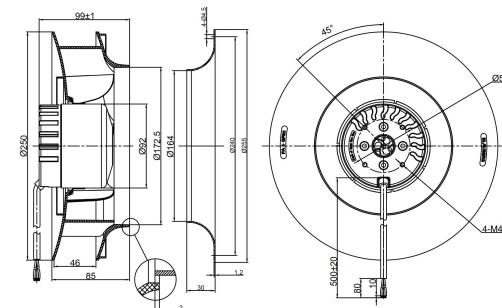


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BD-B250B-EC-N07	24	-	2800	170	7.1	76	-25... +60	D
BE-B250B-EC-N07	48	-	2800	170	3.6	76	-25... +60	D



Overall Dimensions



Ø280 mm BACKWARD CURVED

DC CENTRIFUGAL FAN



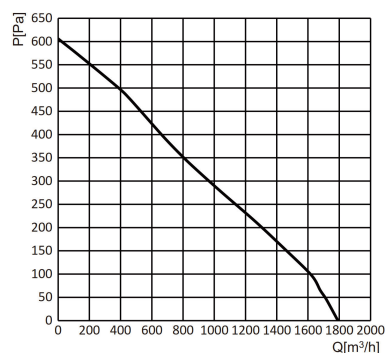
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: galvanized steel
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

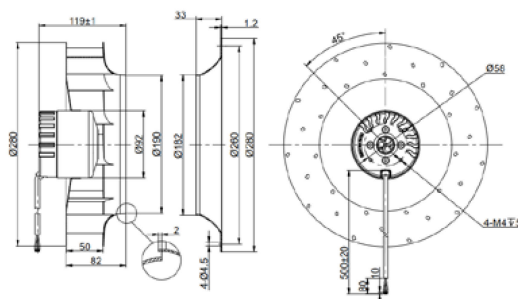


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BD-B280A-EC-N07	24	-	2800	170	7.1	76	-25... +60	D
BE-B280A-EC-N07	48	-	2800	170	3.6	76	-25... +60	D



Overall Dimensions



Ø280 mm BACKWARD CURVED

DC CENTRIFUGAL FAN



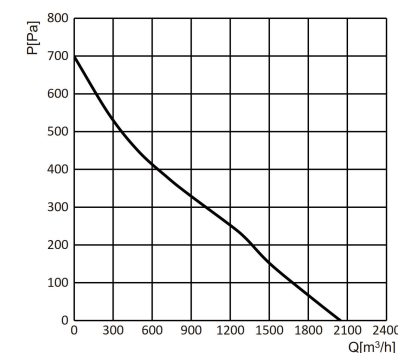
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: galvanized steel
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

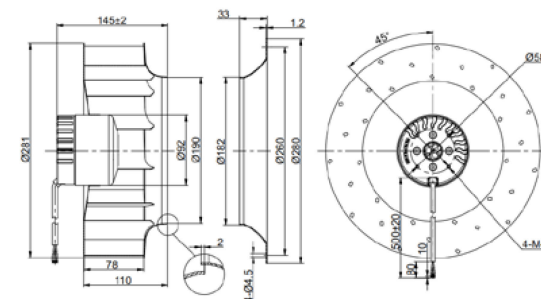


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BD-B280B-EC-N07	24	-	2250	170	7.1	80	-25... +60	D
BE-B280B-EC-N07	48	-	2250	170	3.6	80	-25... +60	D



Overall Dimensions



Ø 310mm BACKWARD CURVED

DC CENTRIFUGAL FAN



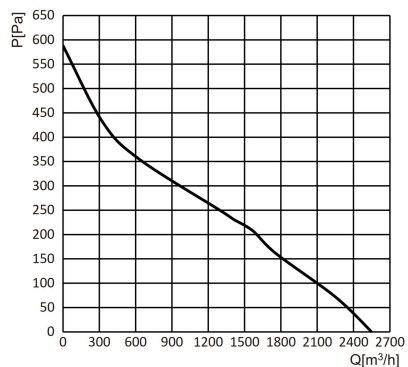
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: galvanized steel
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

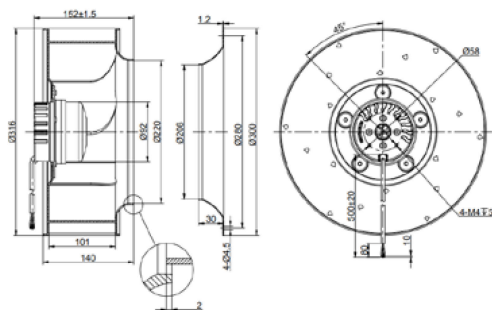


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp.[°C]	Electrical connection
BD-B310D-EC-N07	24	-	1800	170	7.1	78	-25...+60	D
BE-B310D-EC-N07	48	-	1800	170	3.6	78	-25...+60	D



Overall Dimensions



Ø 250mm BACKWARD CURVED

DC CENTRIFUGAL FAN



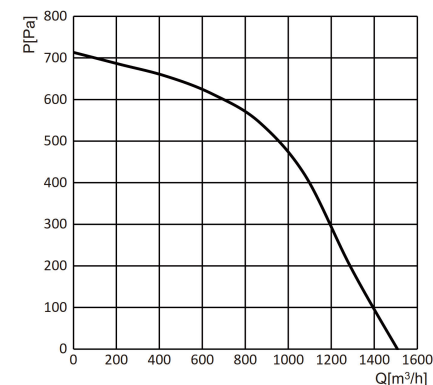
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP43
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

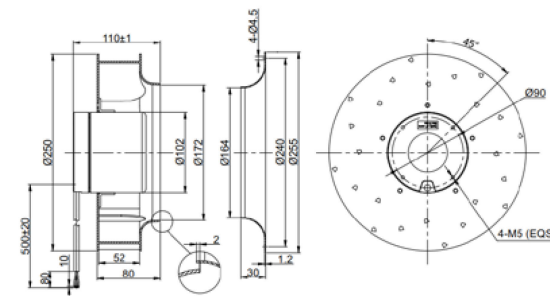


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp.[°C]	Electrical connection
BE-B250D-EC-02	48	-	3000	225	4.7	74	-25...+60	D



Overall Dimensions



Ø280mm BACKWARD CURVED

DC CENTRIFUGAL FAN



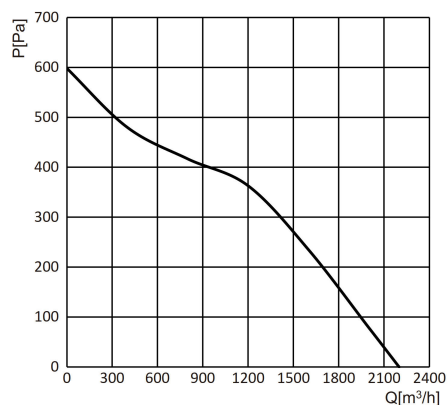
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP43
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

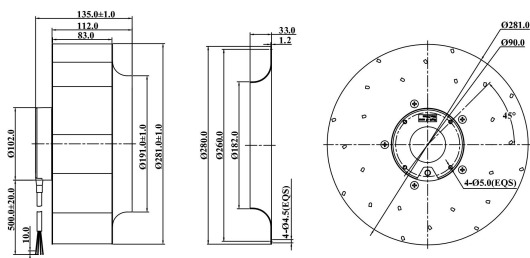


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BE-B280D-EC-02	48	-	2300	250	5.2	72	-25... +60	D



Overall Dimensions



Ø310mm BACKWARD CURVED

DC CENTRIFUGAL FAN



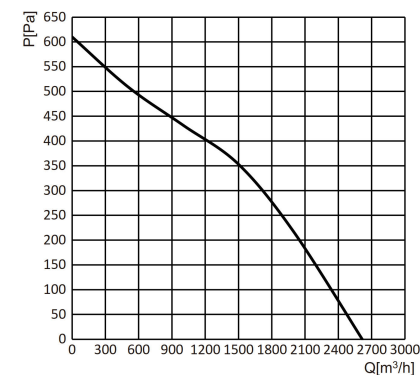
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP43
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

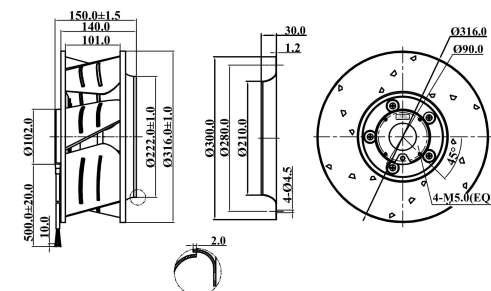


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BE-B310D-EC-02	48	-	2000	259.2	5.4	70	-25... +60	D



Overall Dimensions



Ø 355 mm BACKWARD CURVED

DC CENTRIFUGAL FAN



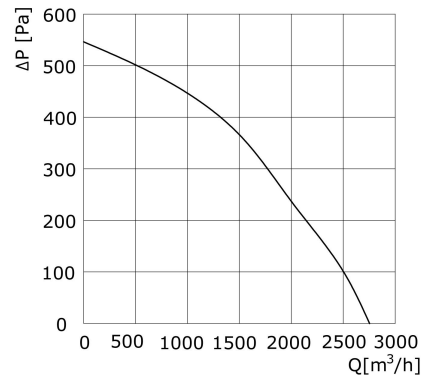
Features

- Speed Control: 0~10V DC / PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP43
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

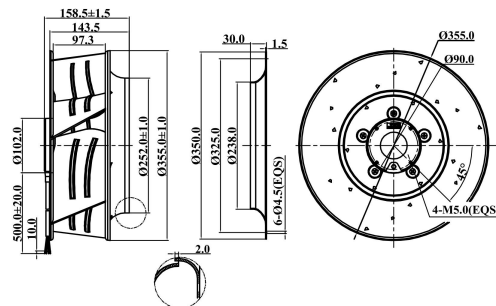


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BE-B355D-EC-02	48	-	1560	206.4	4.3	69	-25... +60	D



Overall Dimensions



Ø 400 mm BACKWARD CURVED

DC CENTRIFUGAL FAN



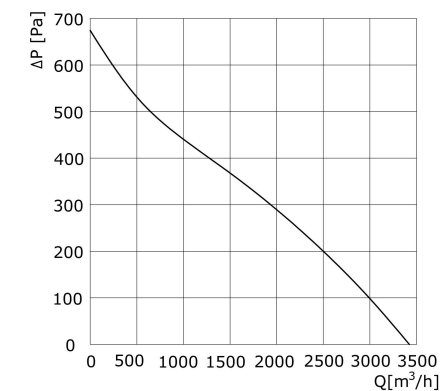
Features

- Speed Control: 0~10V DC / PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP43
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

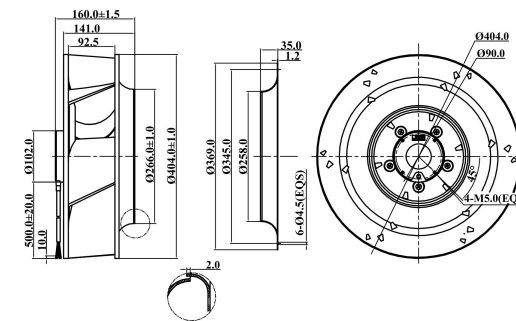


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BE-B400D-EC-02	48	-	3000	225	4.7	74	-25... +60	D



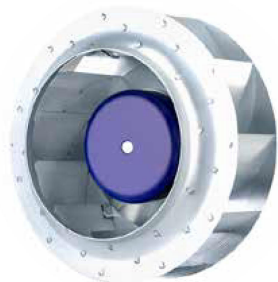
Overall Dimensions



Ø 250 mm BACKWARD CURVED

EC CENTRIFUGAL FAN

Centrifugal fans
(backward curved)



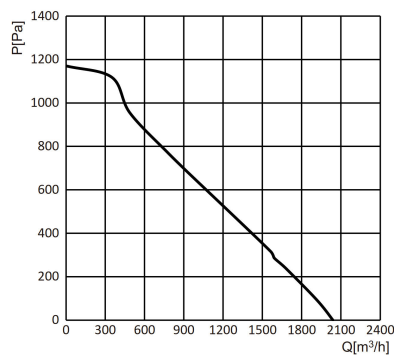
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: galvanized steel
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

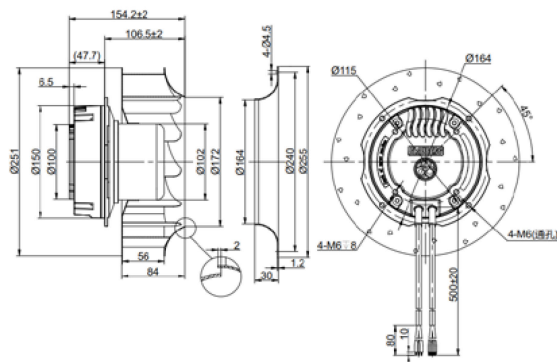


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BL-B250D-EC-F05	230	50/60	3250	400	2.0	83	-25... +60	E4



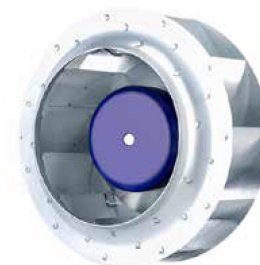
Overall Dimensions



Ø 280 mm BACKWARD CURVED

EC CENTRIFUGAL FAN

Centrifugal fans
(backward curved)



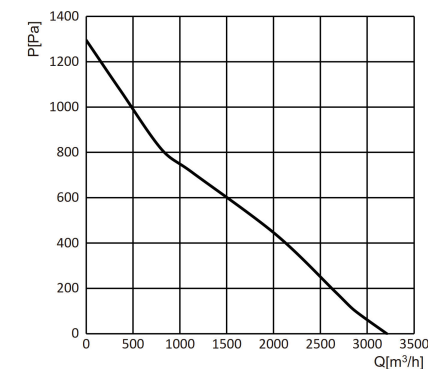
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: galvanized steel
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

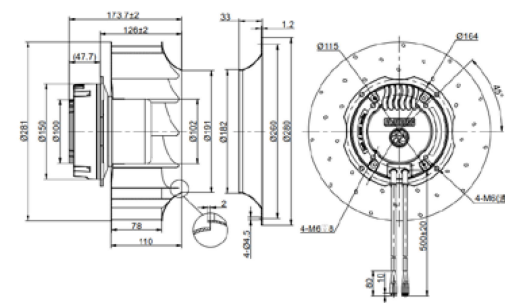


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BL-B280D-EC-F05	230	50/60	2900	500	2.5	83	-25... +60	E4



Overall Dimensions



Ø310 mm BACKWARD CURVED

EC CENTRIFUGAL FAN



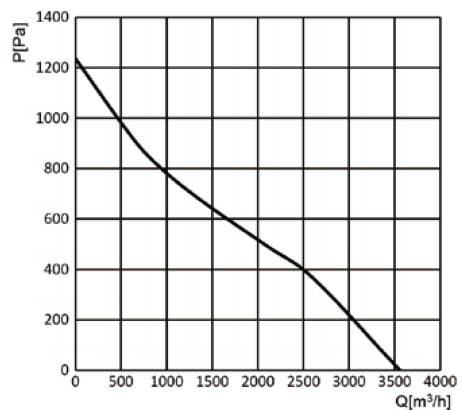
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

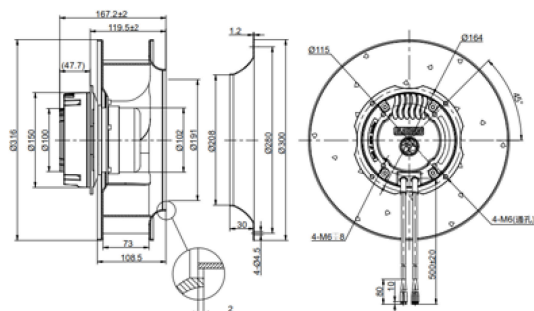


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BL-B310C-EC-F05	230	50/60	2500	500	2.5	85	-25...+60	E4



Overall Dimensions



Ø310 mm BACKWARD CURVED

EC CENTRIFUGAL FAN



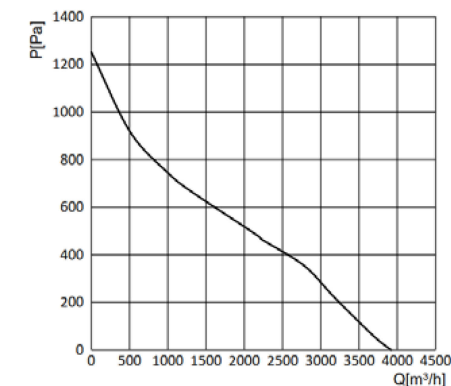
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

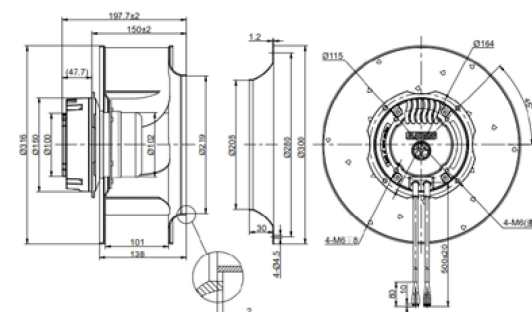


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BL-B310D-EC-F05	230	50/60	2300	500	2.5	84	-25...+60	E4



Overall Dimensions



Ø355 mm BACKWARD CURVED

EC CENTRIFUGAL FAN

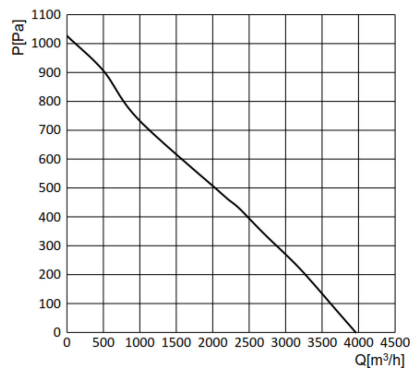
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

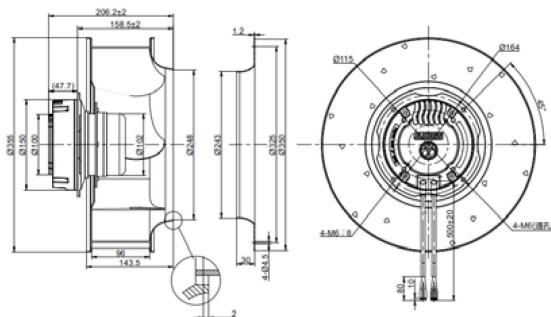


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BL-B355C-EC-F05	230	50/60	2200	500	2.3	82	-25... +60	E4



Overall Dimensions



Ø355 mm BACKWARD CURVED

EC CENTRIFUGAL FAN

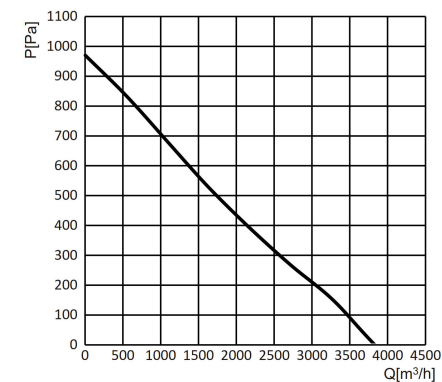
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

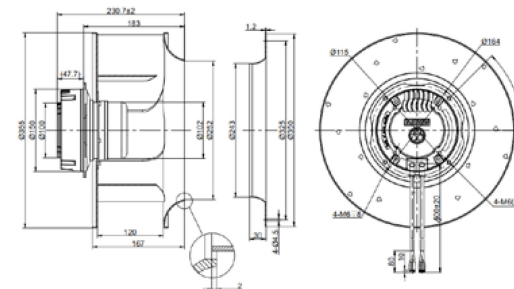


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BL-B355D-EC-F05	230	50/60	1800	420	2.1	78	-25... +60	E4



Overall Dimensions



Ø 400 mm BACKWARD CURVED

EC CENTRIFUGAL FAN



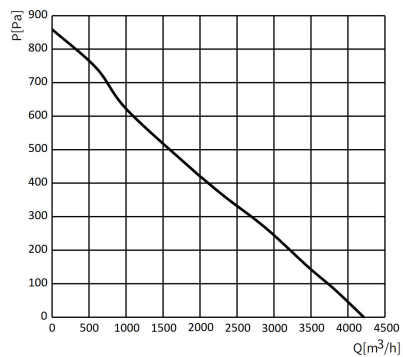
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

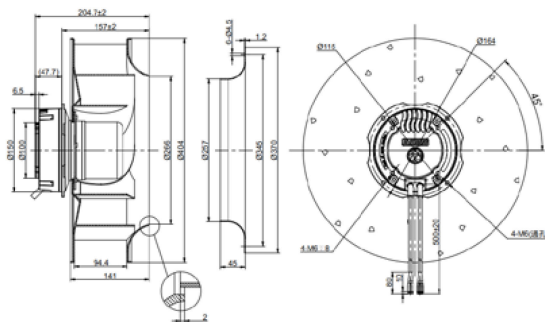


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BL-B400D-EC-F05	230	50/60	1600	385	1.75	78	-25... +60	E4



Overall Dimmensions



Ø 400 mm BACKWARD CURVED

EC CENTRIFUGAL FAN



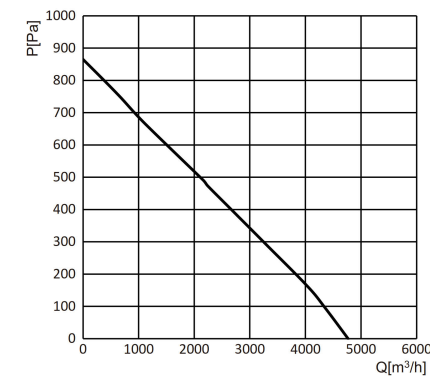
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

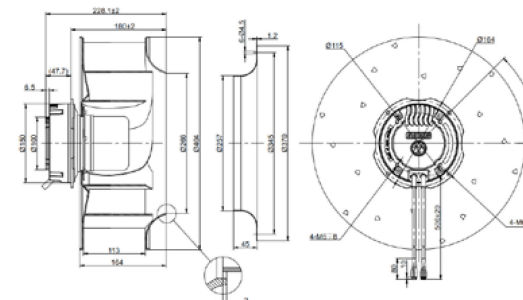


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp[°C]	Electrical connection
BL-B400H-EC-F05	230	50/60	1500	500	2.3	75	-25... +60	E4



Overall Dimmensions



Ø 450 mm BACKWARD CURVED

EC CENTRIFUGAL FAN

EC
Centrifugal fans
(backward curved)



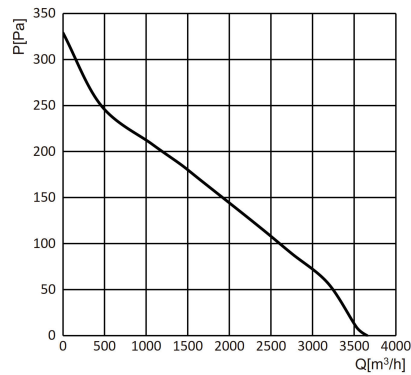
Features

- Speed Control: 0~10V DC /PWM
- Direction of rotation: clockwise, seen on rotor
- Impeller material: aluminium alloy
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

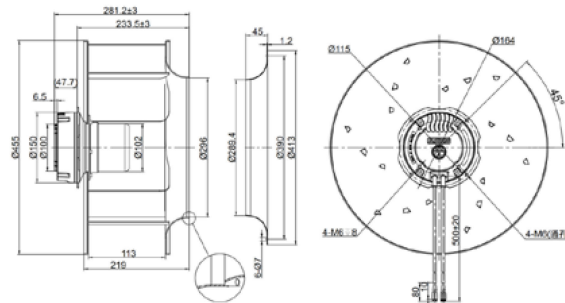


Technical data

Model	Nominal voltage[V]	Frequency [Hz]	Speed [RPM]	Power input max[W]	Current max[A]	Sound pres level [dB(A)]	Perm.amb. temp [°C]	Electrical connection
BL-B450D-EC-F05	230	50/60	1000	190	0.9	67	-25... +60	E4



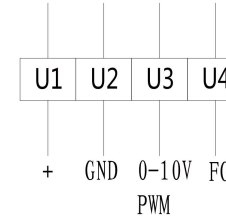
Overall Dimensions



Electrical Connection

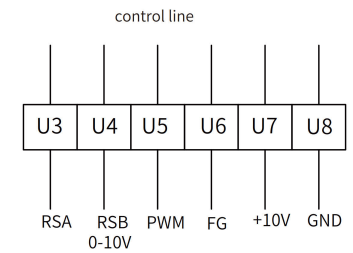
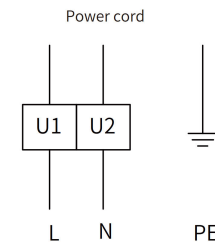
"D"

- U1 Red
- U2 Blue
- U3 Yellow
- U4 White



"E4"

- U1 Brown
- U2 Blue
- U3 Brown
- U4 Gray
- U5 Yellow
- U6 White
- U7 Red
- U8 Blue



EC
Centrifugal fans
(backward curved)