



BLAUBERG
Motoren



FANS & MOTORS

CATALOGUE 2018



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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.

**WE ARE CLIENT-ORIENTED COMPANY
AND TRY TO BE BEST ONE FOR OUR CLIENTS
IN SEGMENTS WE ARE PRESENT.**

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.



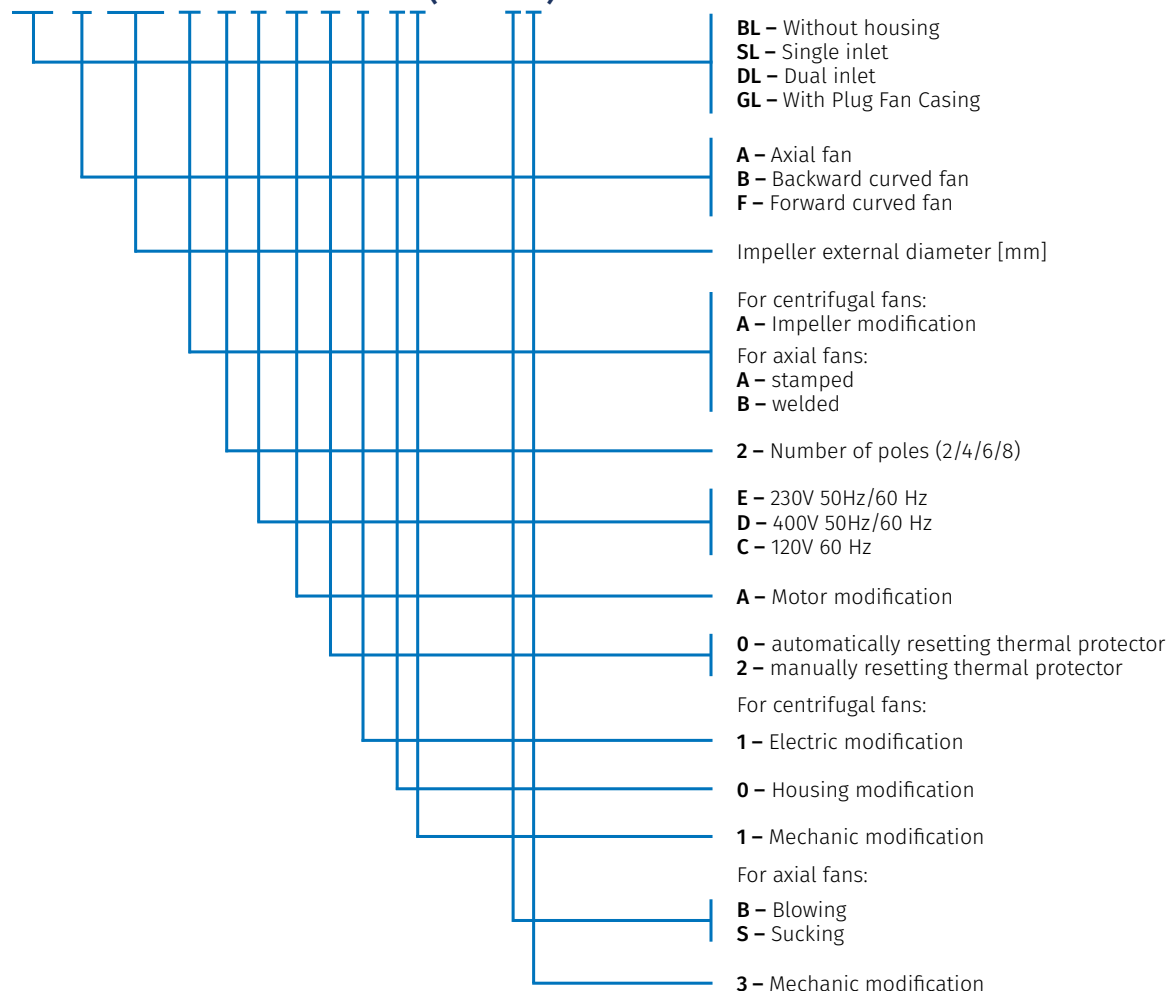
ADVANTAGES OF EC MOTORS:

- 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

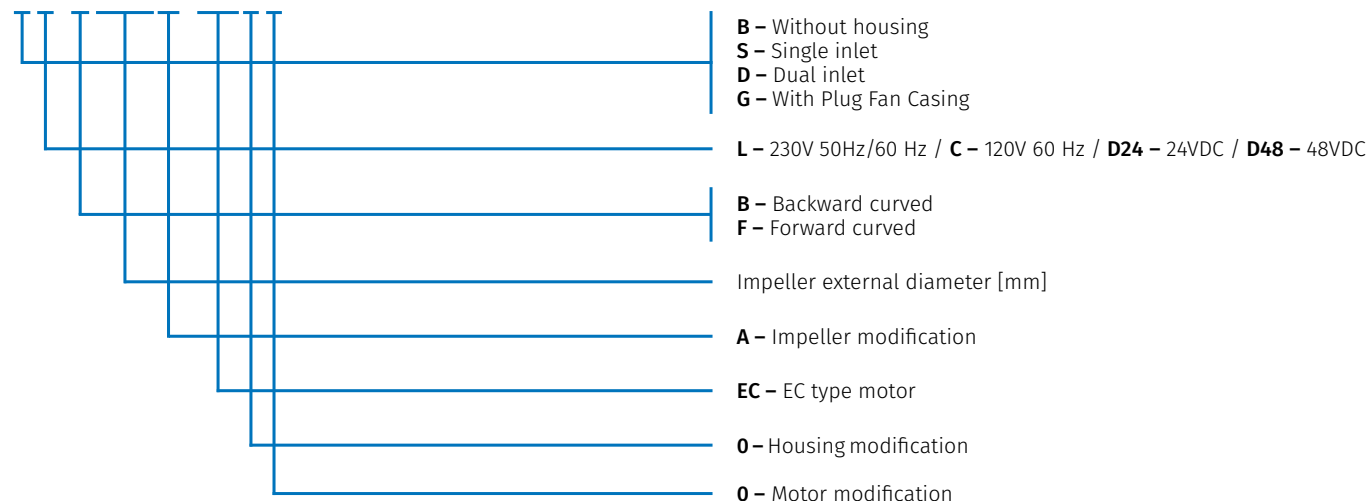
AC fans

BL-B 190 A-2 E-A 0 1-01(OR B3)



EC fans

BL-B190A-EC00



AC AXIAL FANS

Ø 200 mm, STAMPED

AC AXIAL FAN



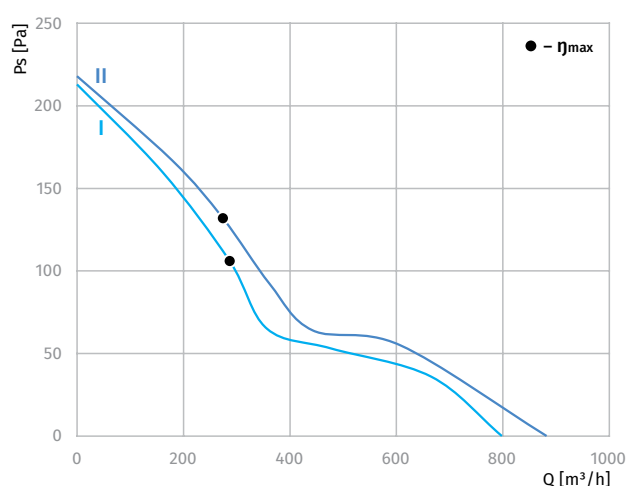
Features

- Impeller material: steel powder coated, stamped
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

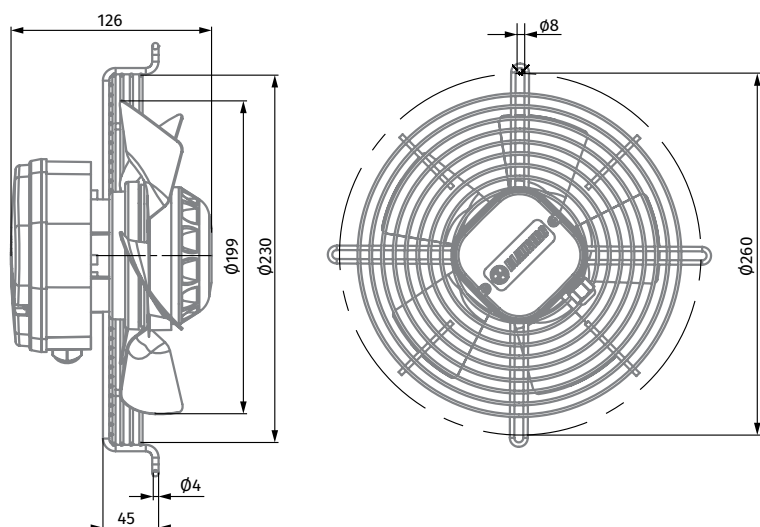


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-A200A-2E-A01-B3	I	230	50	2540	67	0.29	60	-25 ... +50	1.5/450	A
	II	230	60	2650	84	0.36	62	-25 ... +50	1.5/450	A

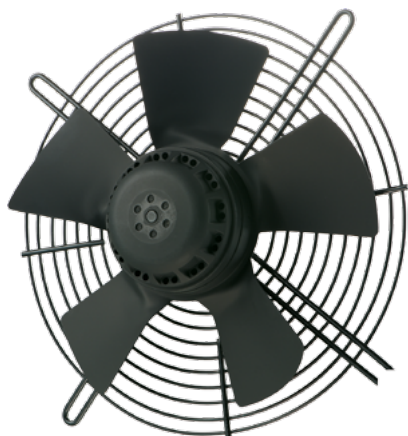


Overall Dimensions



Ø 250 MM, STAMPED

AC AXIAL FAN



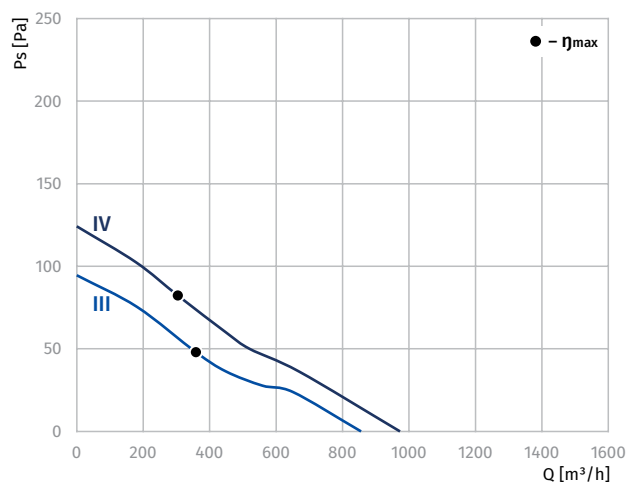
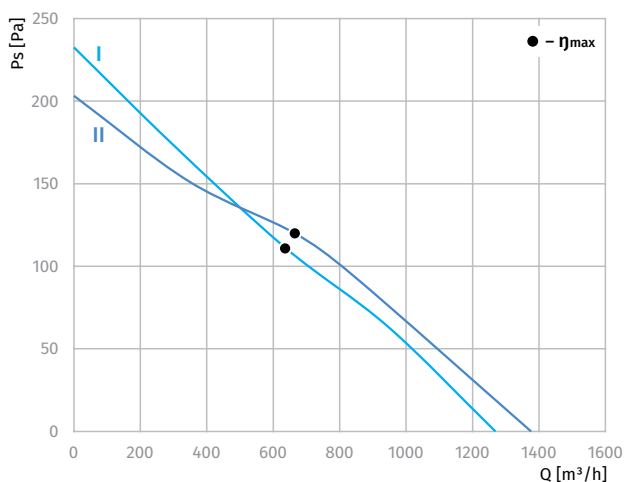
Features

- Impeller material: steel powder coated, stamped
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

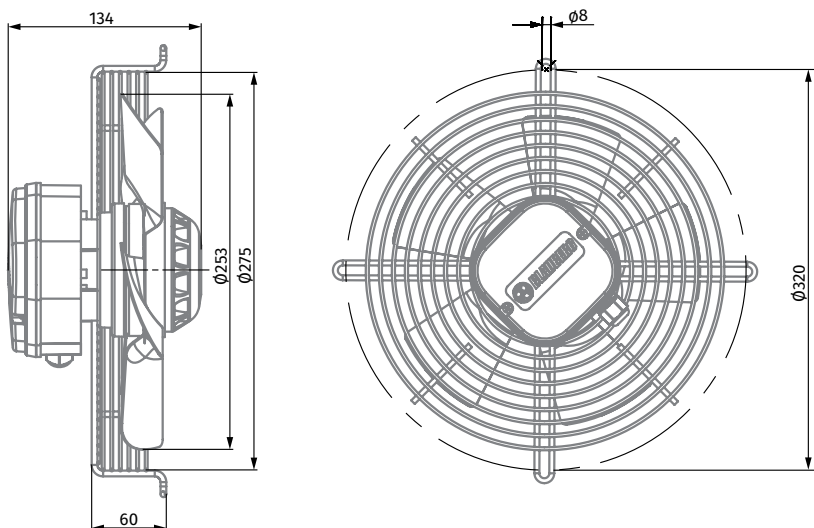


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-A250A-2E-B01-B3	I	230	50	2480	117	0.52	60	-25 ... +50	2.0/450	A
	II	230	60	2560	140	0.61	62	-25 ... +50	2.0/450	A
BL-A250A-4E-B01-B3	III	230	50	1380	53	0.23	54	-25 ... +50	2.0/450	A
	IV	230	60	1550	67	0.30	58	-25 ... +50	2.0/450	A



Overall Dimmensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

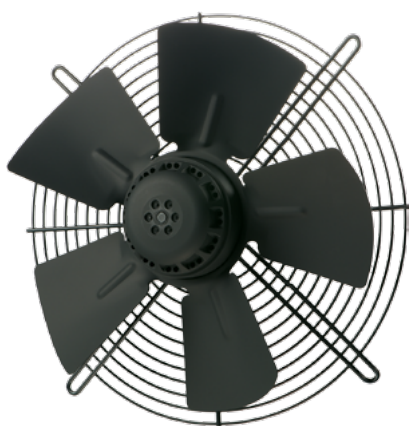
AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 300 MM, STAMPED

AC AXIAL FAN



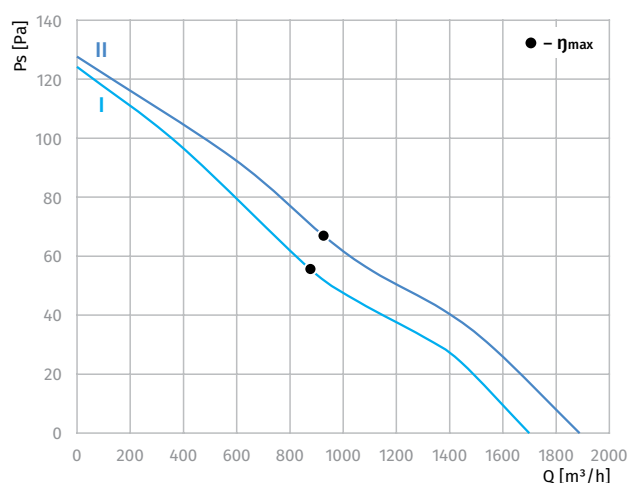
Features

- Impeller material: steel powder coated, stamped
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

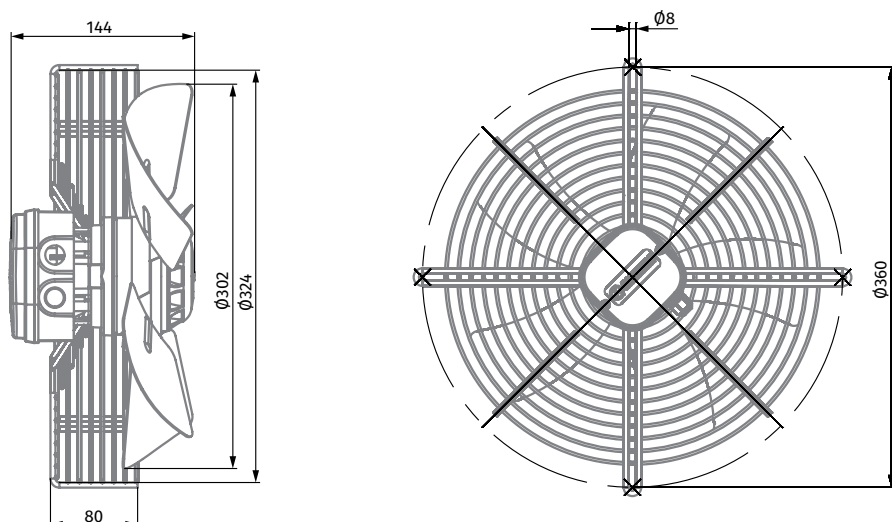


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-A300A-4E-C01-B3	I	230	50	1290	93	0.41	59	-25 ... +50	3.0/450	A
	II	230	60	1380	116	0.50	63	-25 ... +50	3.0/450	A

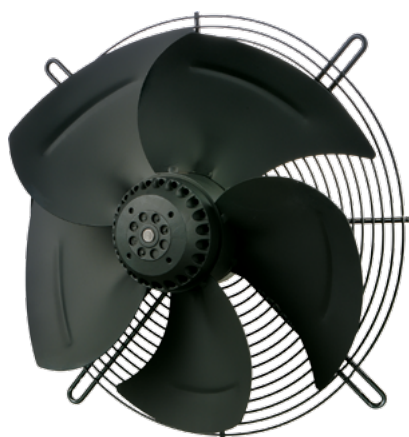


Overall Dimensions



Ø 350 MM, WELDED

AC AXIAL FAN



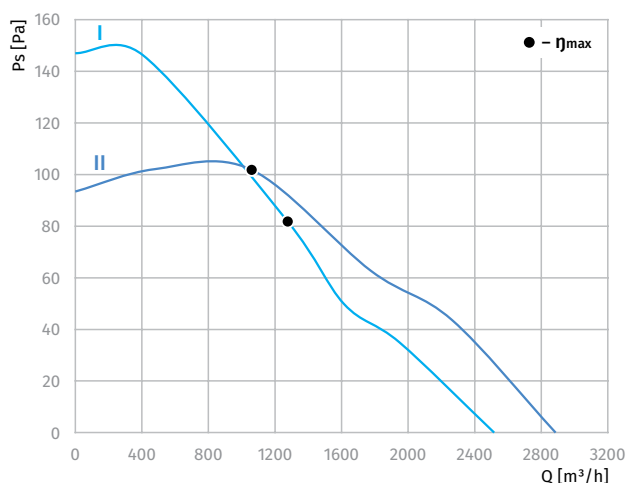
Features

- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

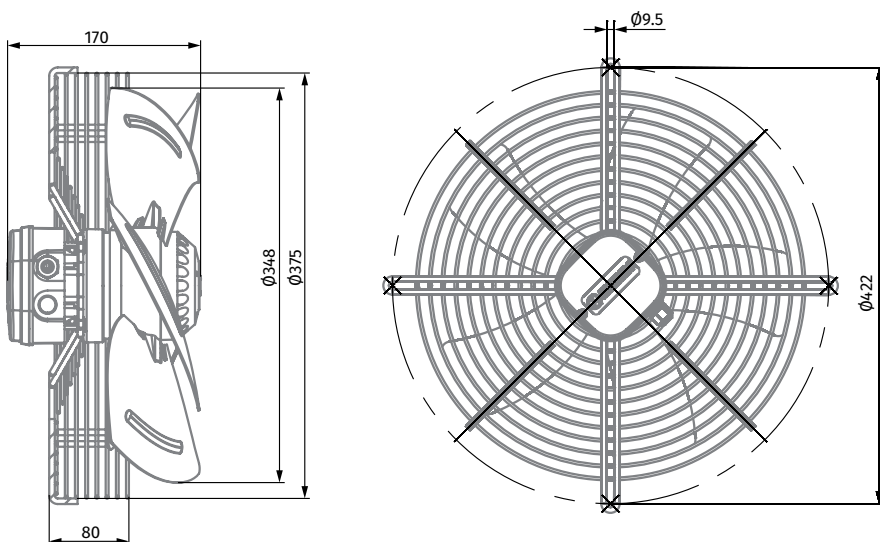


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-A350B-4E-L01-B3	I	230	50	1330	218	0.97	63	-25 ... +50	4.0/450	A
	II	230	60	1570	248	1.10	67	-25 ... +50	4.0/450	A



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 400 mm, WELDED

AC AXIAL FAN



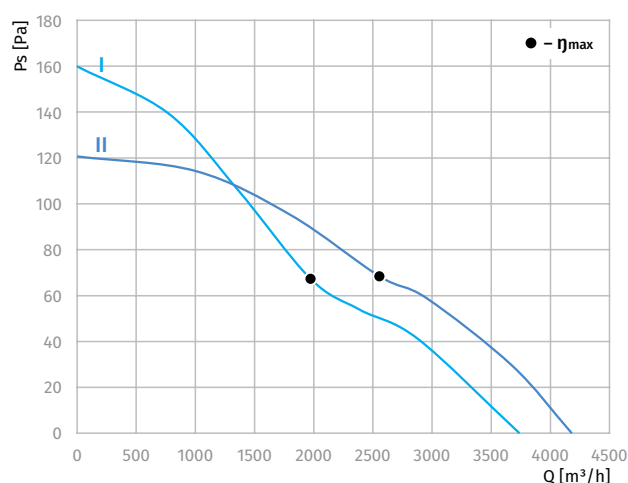
Features

- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

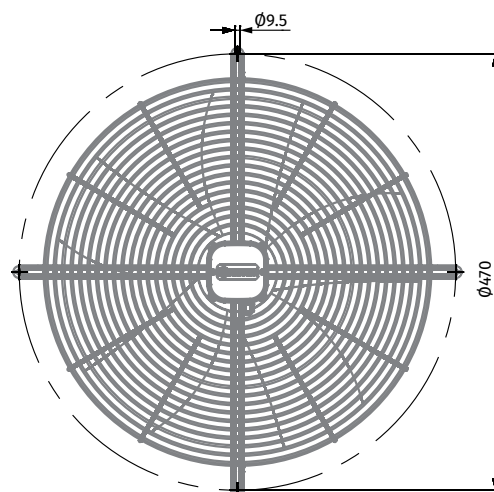
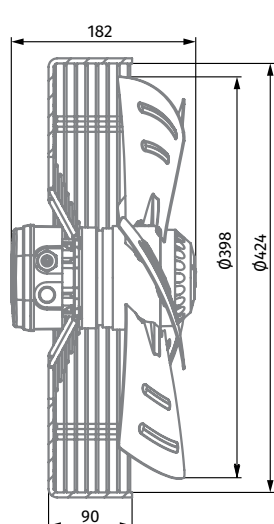


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [μF/VDB]	Electrical connection
BL-A400B-4E-M01-B3	I	230	50	1400	290	1.27	63	-25 ... +50	6.0/450	A
	II	230	60	1600	331	1.43	67	-25 ... +50	6.0/450	A



Overall Dimensions



Ø 450 mm, WELDED

AC AXIAL FAN



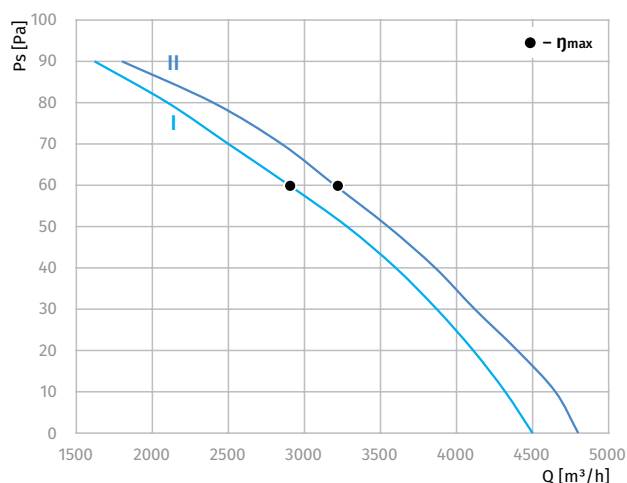
Features

- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

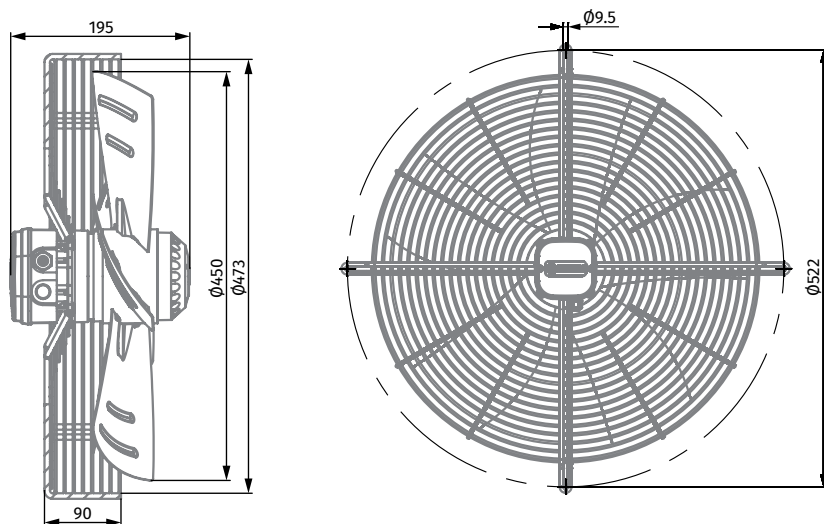


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-A450B-4E-N01-B3	I	230	50	1310	317	1.40	64	-25 ... +50	8.0/450	A
	II	230	60	1390	425	1.85	68	-25 ... +50	8.0/450	A



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

BACKWARD CURVED AC CENTRIFUGAL FANS

Ø 190 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



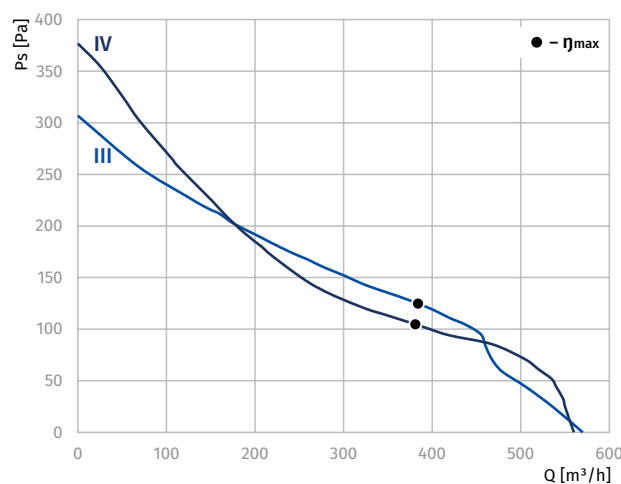
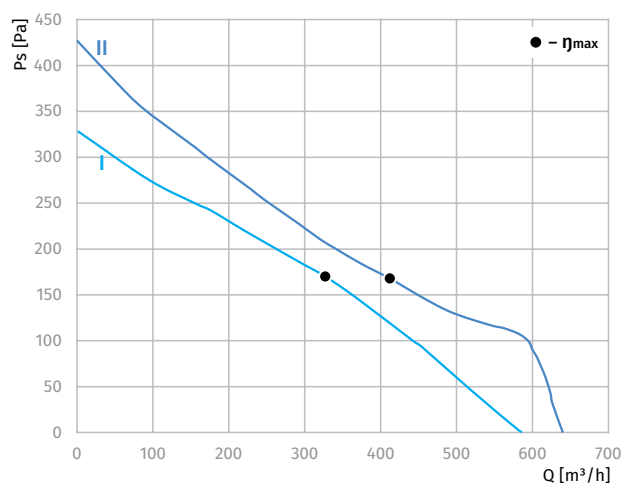
Features

- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

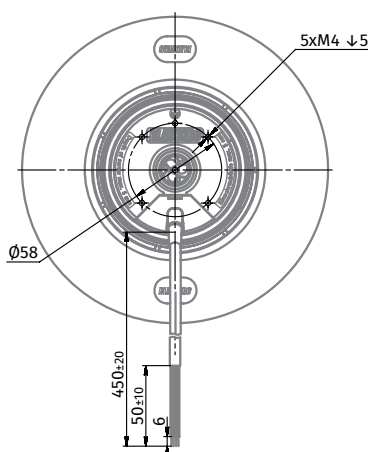
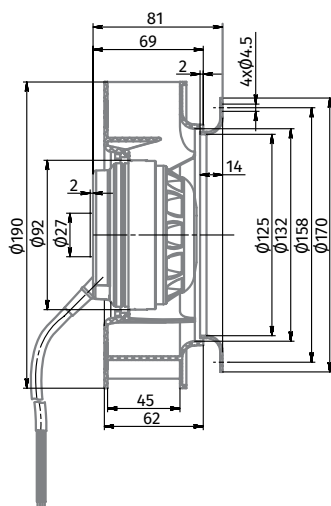


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B190A-2E-A01-01	I	230	50	2430	65	0.30	62	-25 ... +50	1.5/450	A
	II	230	60	2530	80	0.35	64	-25 ... +50	1.5/450	A
BL-B190A-2E-A02-01	III	230	50	2180	63	0.30	58	-25 ... +50	1.0/450	A
	IV	230	60	2150	72	0.35	60	-25 ... +50	1.0/450	A



Overall Dimensions



Ø 220 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



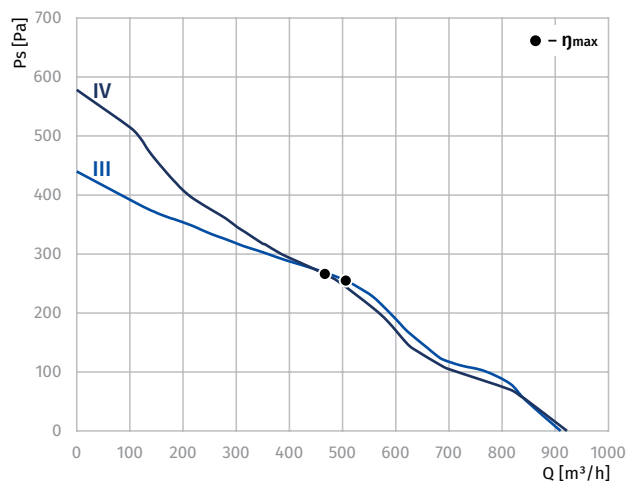
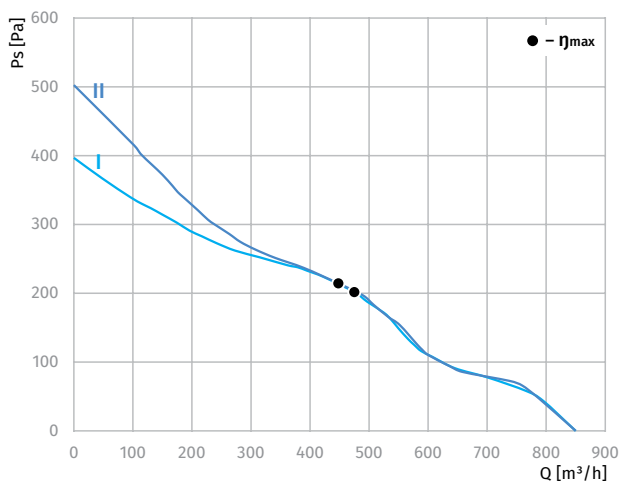
Features

- **Impeller material:** PA plastic + 30% glass fiber
- **Direction of rotation:** clockwise, seen on rotor
- **Type of protection:** IP44
- **Insulation class:** B
- **Mode of operation:** continuous operation (S1)
- **Bearing:** ball bearings
- **Motor protection:** self-resetting TOP wired internally

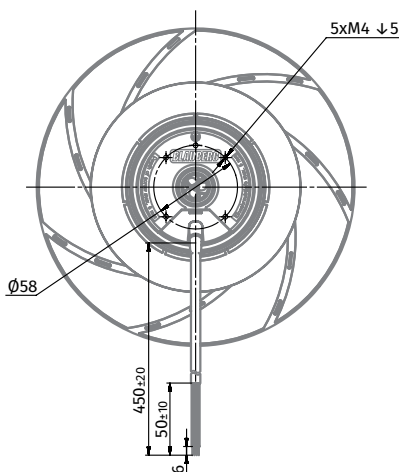
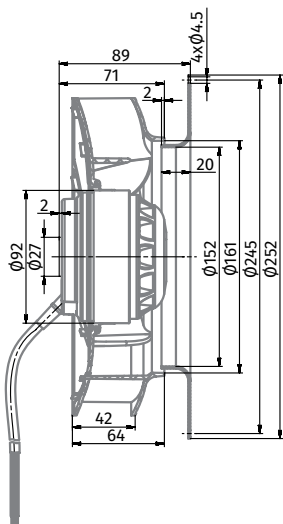


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B220B-2E-A01-01	I	230	50	2110	94	0.42	69	-25 ... +50	2.0/450	A
	II	230	60	2110	108	0.47	70	-25 ... +50	2.0/450	A
BL-B220B-2E-B01-01	III	230	50	2360	106	0.47	70	-25 ... +50	2.0/450	A
	IV	230	60	2350	130	0.57	71	-25 ... +50	2.0/450	A

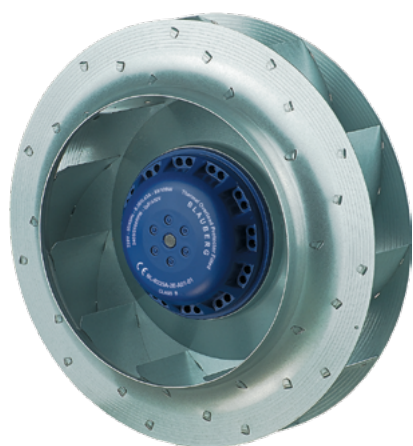


Overall Dimensions



Ø 225 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



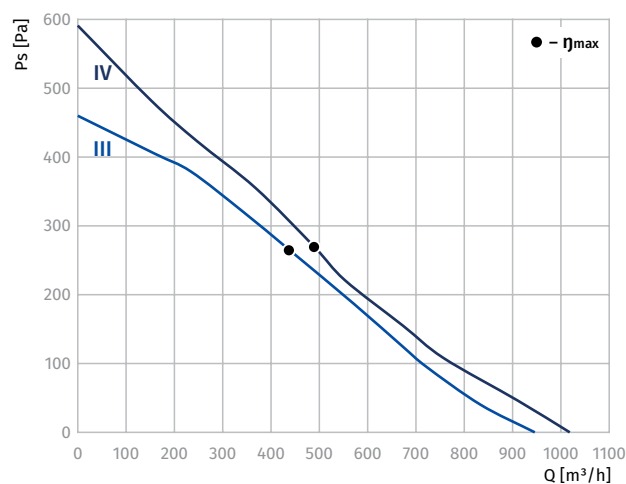
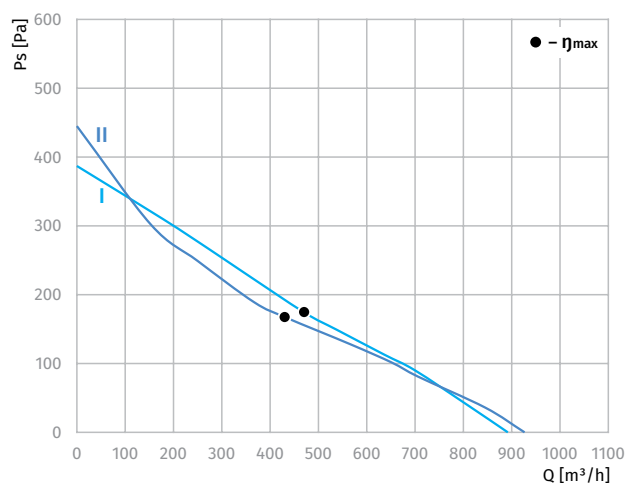
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

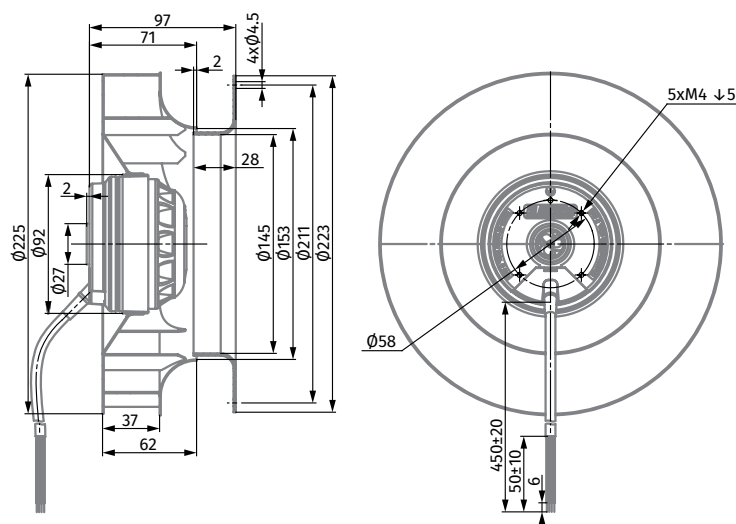


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B225A-2E-A01-01	I	230	50	2150	92	0.41	70	-25 ... +50	2.0/450	A
	II	230	60	2100	109	0.48	71	-25 ... +50	2.0/450	A
BL-B225A-2E-C01-01	III	230	50	2550	108	0.49	74	-25 ... +50	3.5/450	A
	IV	230	60	2620	150	0.66	76	-25 ... +50	3.5/450	A



Overall Dimensions



Ø 225 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



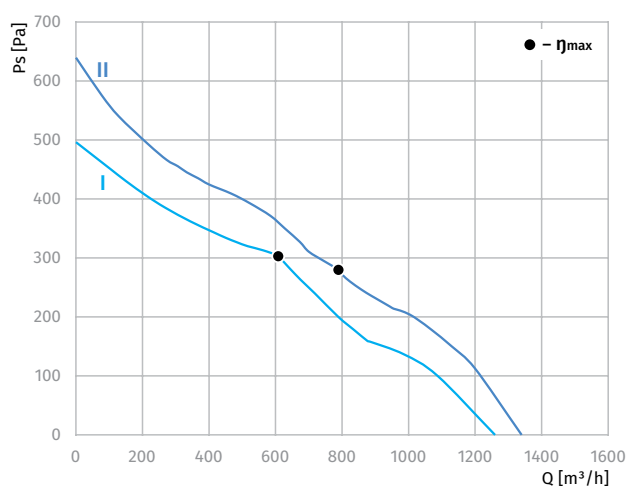
Features

- **Impeller material:** PA plastic + 30% glass fiber
- **Direction of rotation:** clockwise, seen on rotor
- **Type of protection:** IP44
- **Insulation class:** B
- **Mode of operation:** continuous operation (S1)
- **Bearing:** ball bearings
- **Motor protection:** self-resetting TOP wired internally

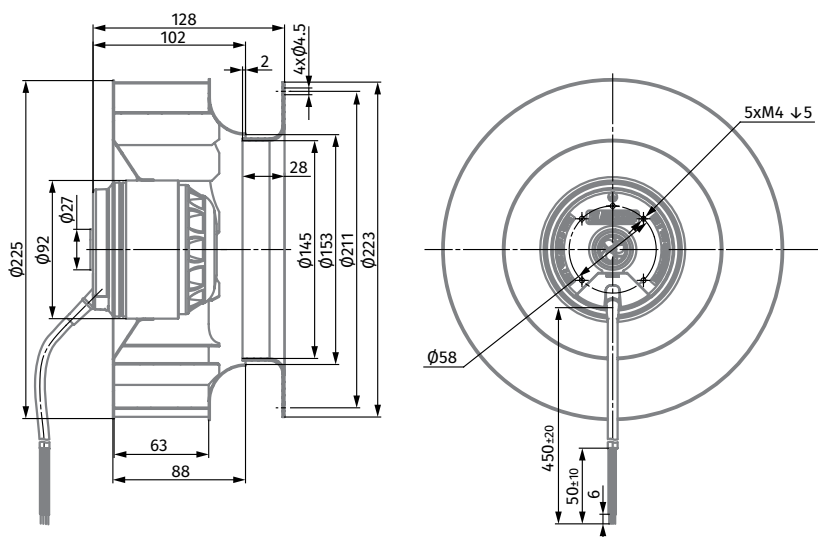


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B225B-2E-C01-01	I	230	50	2480	129	0.57	69	-25 ... +50	4.0/450	A
	II	230	60	2600	182	0.80	71	-25 ... +50	4.0/450	A

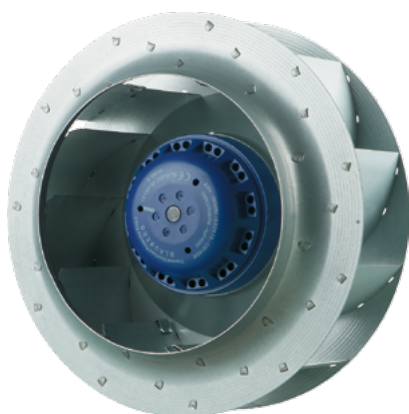


Overall Dimensions



Ø 225 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



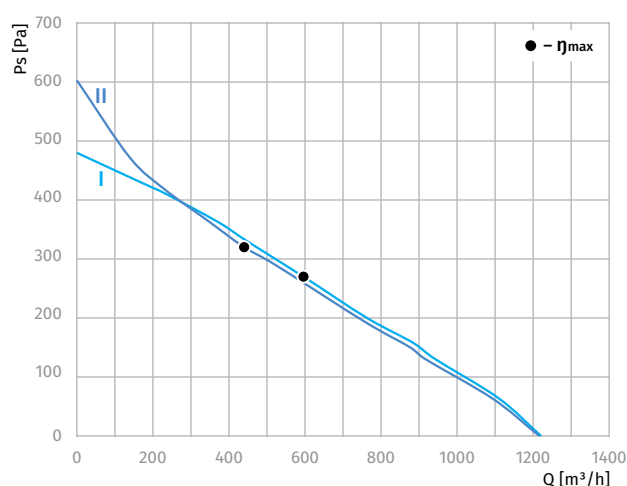
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

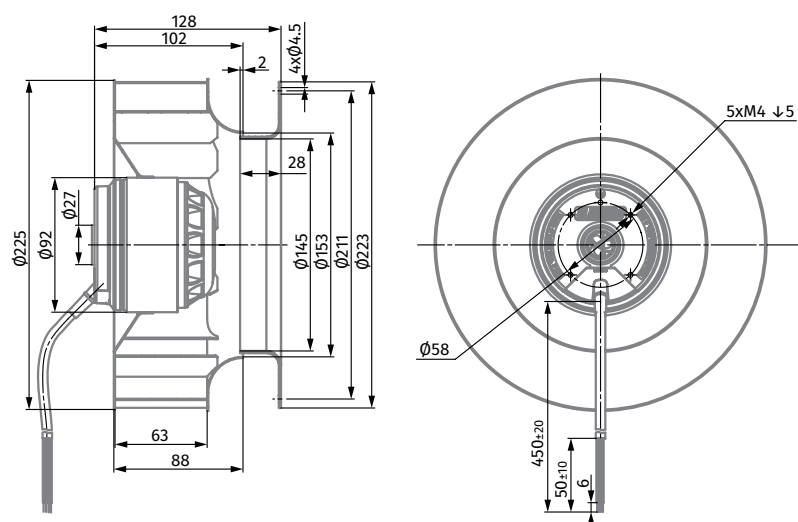


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B225C-2E-C01-01	I	230	50	2350	153	0.66	70	-25 ... +50	4.0/450	A
	II	230	60	2240	195	0.85	71	-25 ... +50	4.0/450	A



Overall Dimensions



Ø 250 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



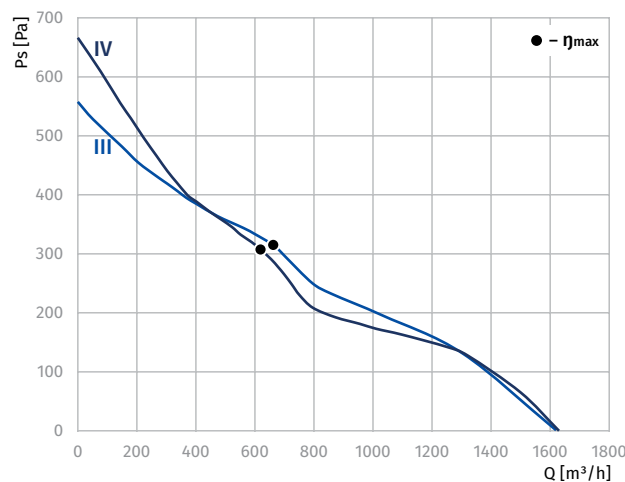
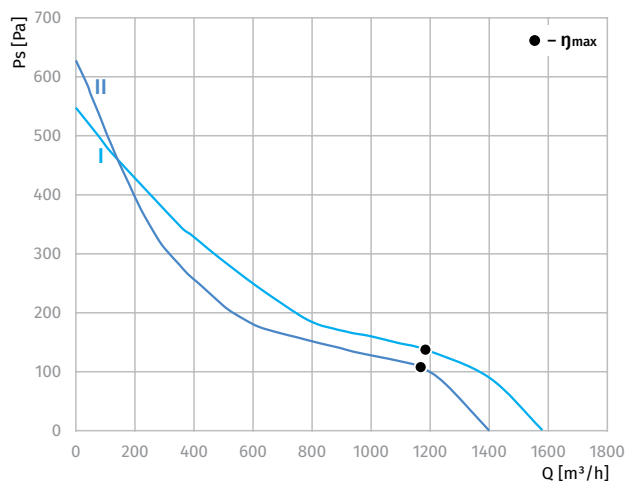
Features

- **Impeller material:** PA plastic + 30% glass fiber + galvanized steel
- **Direction of rotation:** clockwise, seen on rotor
- **Type of protection:** IP44
- **Insulation class:** B
- **Mode of operation:** continuous operation (S1)
- **Bearing:** ball bearings
- **Motor protection:** self-resetting TOP wired internally

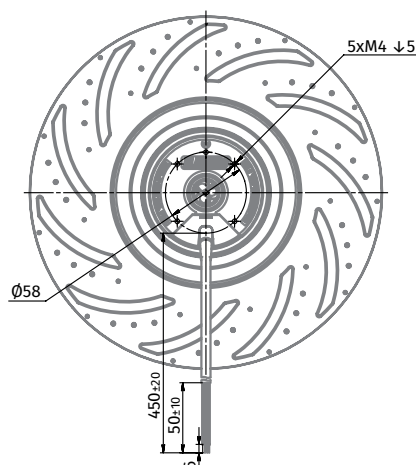
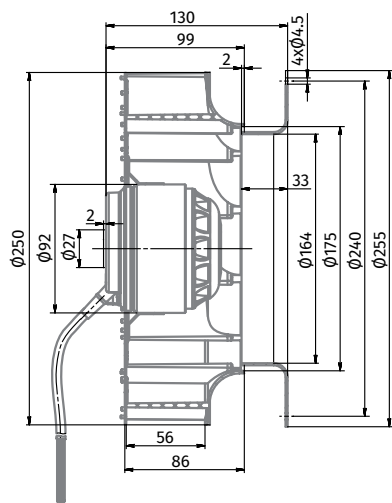


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B250A-2E-C01-01	I	230	50	2240	188	0.83	70	-25 ... +50	3.0/450	A
	II	230	60	1980	212	0.93	69	-25 ... +50	3.0/450	A
BL-B250A-2E-D01-01	III	230	50	2230	195	0.85	72	-25 ... +50	4.0/450	A
	IV	230	60	2170	241	1.05	70	-25 ... +50	4.0/450	A

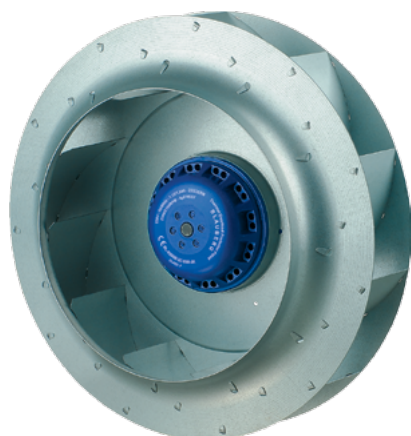


Overall Dimensions



Ø 280 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



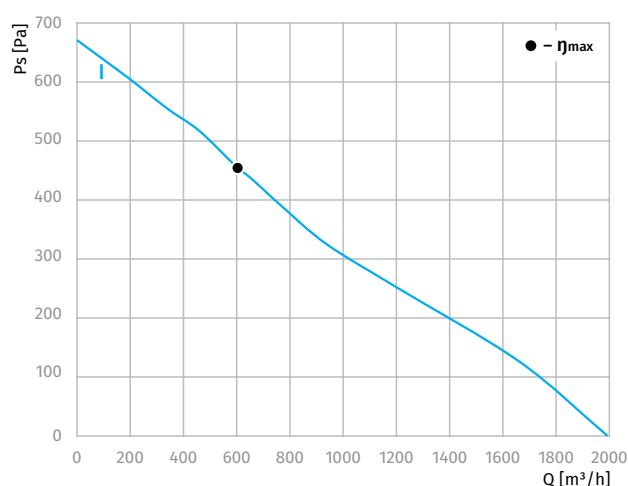
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

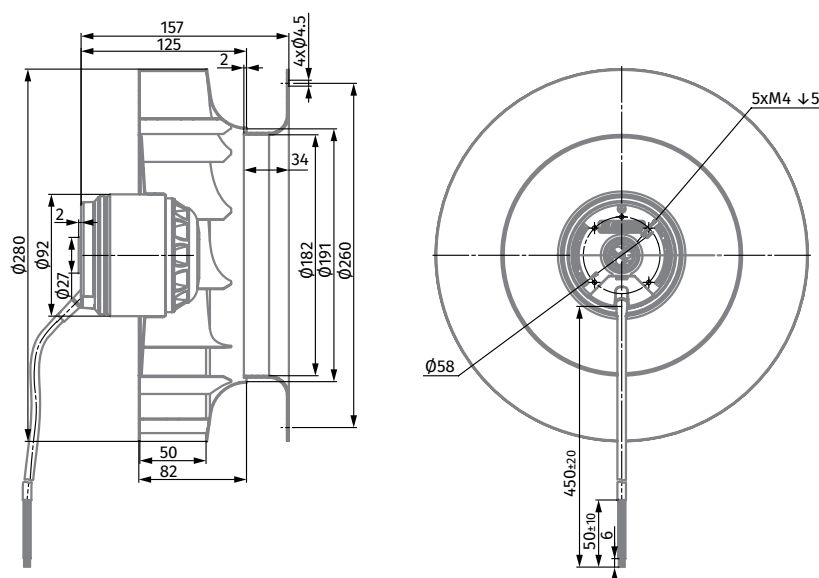


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B280A-2E-D01-01	I	230	50	2330	305	1.33	78	-25 ... +50	6.0/450	A



Overall Dimensions



Ø 310 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



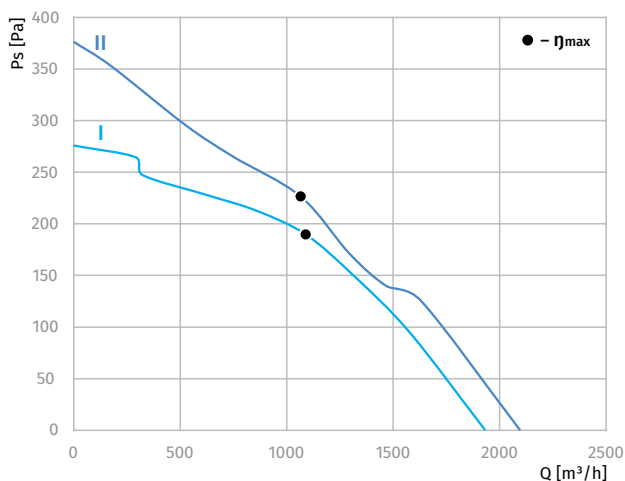
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

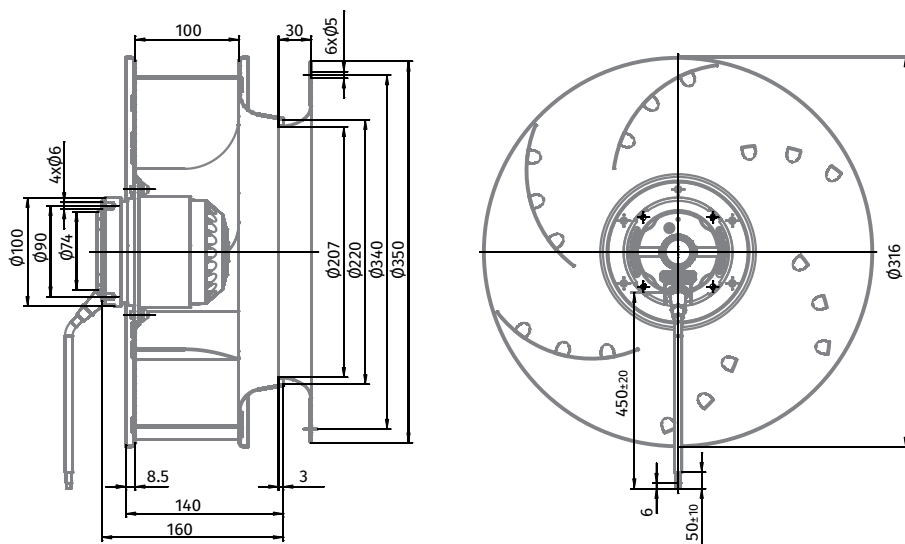


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B310B-4E-L01-01	I	230	50	1340	138	0.62	61	-25 ... +50	3.0/450	A
	II	230	60	1420	191	0.84	65	-25 ... +50	3.0/450	A



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 355 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



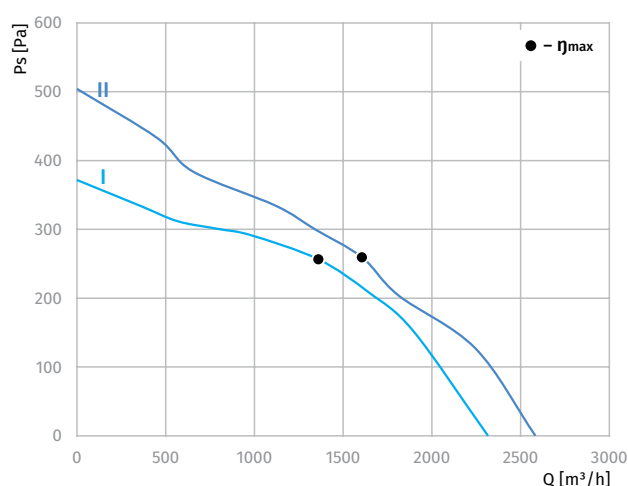
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

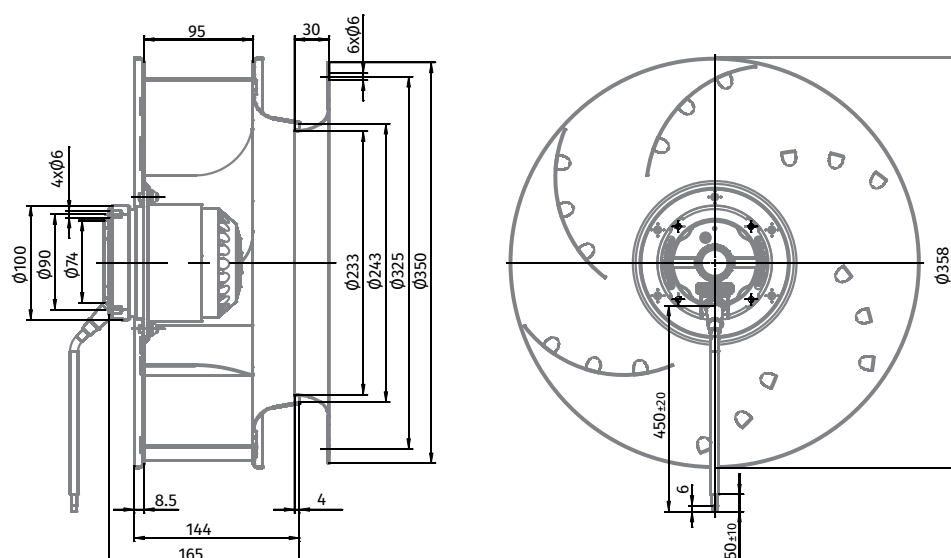


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B355A-4E-M01-01	I	230	50	1340	215	0.94	64	-25 ... +50	6.0/450	A
	II	230	60	1400	299	1.31	68	-25 ... +50	6.0/450	A



Overall Dimensions



Ø 400 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



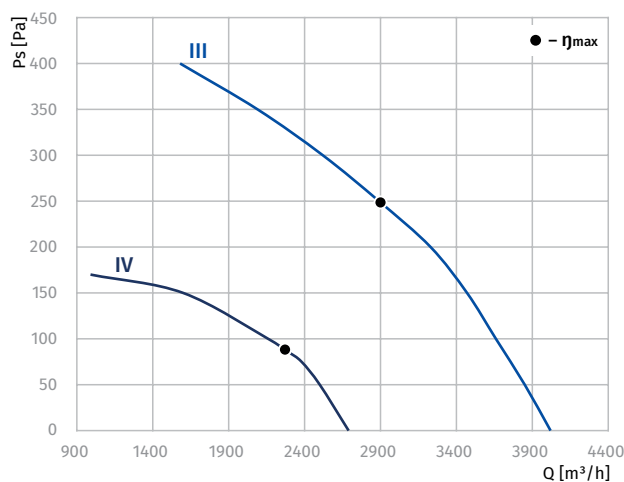
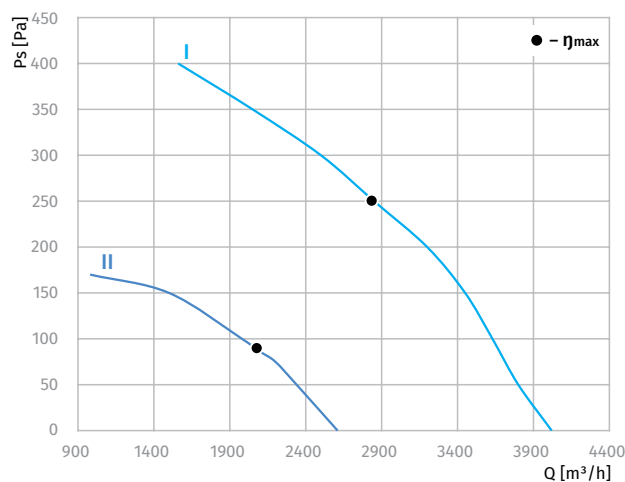
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

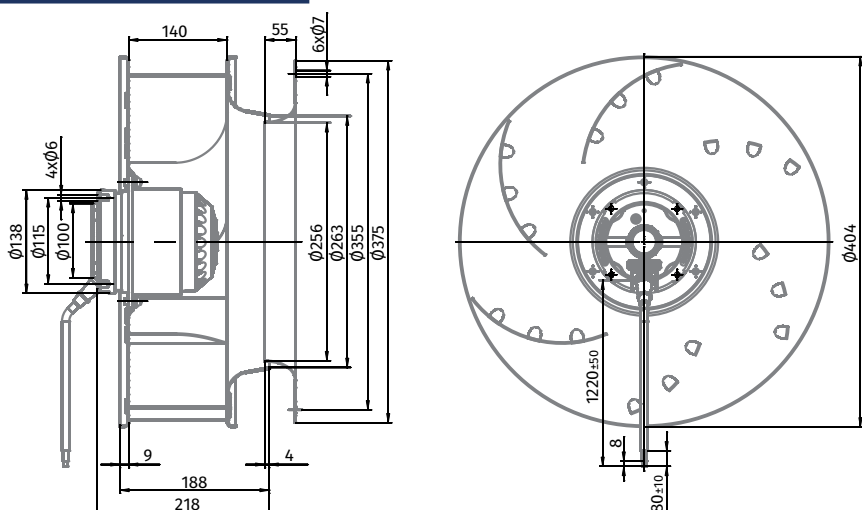


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B400C-4E-Q01-01	I	230	50	1350	560	2.46	66	-25 ... +50	10.0/450	A
BL-B400C-6E-Q01-01	II	230	50	920	180	0.83	50	-25 ... +60	5.0/450	A
BL-B400C-4D-Q01-01	III	230	50	1350	540	1.00	66	-25 ... +50	-	B1
		400	50	1070	350	0.53	66	-25 ... +50	-	B2
BL-B400C-6D-Q01-01	IV	230	50	900	250	1.26	50	-25 ... +60	-	B1
		400	50	900	250	0.73	50	-25 ... +60	-	B2



Overall Dimensions



Ø 450 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



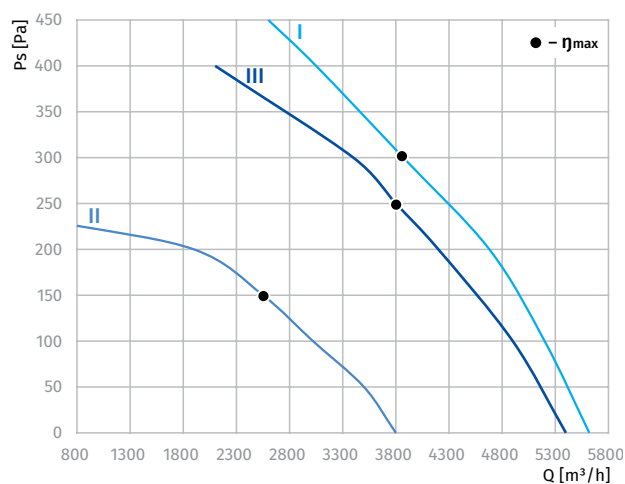
Features

- o **Impeller material:** sheet aluminium
- o **Direction of rotation:** clockwise, seen on rotor
- o **Type of protection:** IP54
- o **Insulation class:** F
- o **Mode of operation:** continuous operation (S1)
- o **Bearing:** ball bearings
- o **Motor protection:** self-resetting TOP wired internally

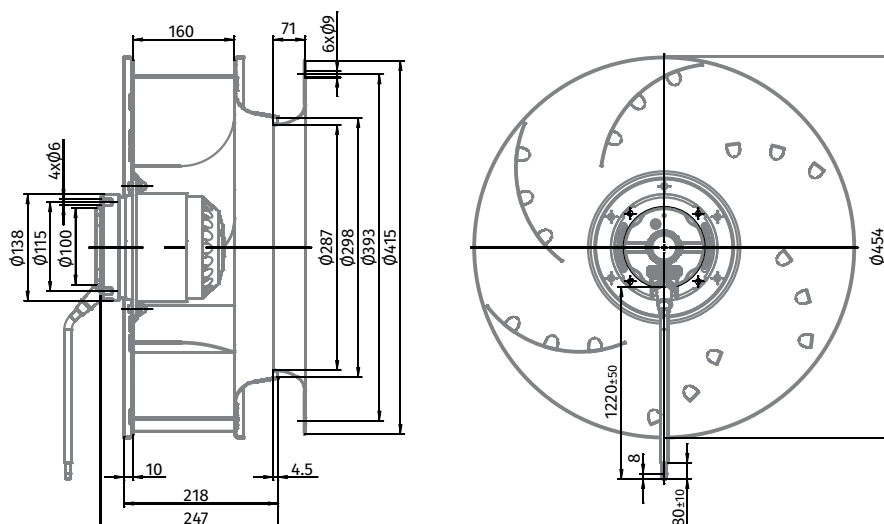


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B450A-4E-P01-01	I	230	50	1340	830	4.10	74	−25 ... +40	14.0/450	A
BL-B450A-6E-P01-01	II	230	50	900	300	1.40	60	−25 ... +60	10.0/450	A
BL-B450A-4D-Q01-01	III	230	50	1280	690	1.26	74	−25 ... +40	–	B1
		400	50	1080	350	0.58	74	−25 ... +40	–	B2



Overall Dimensions



Ø 450 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



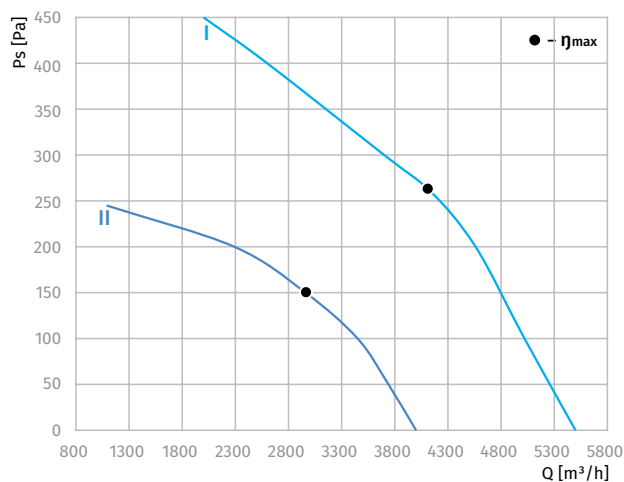
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

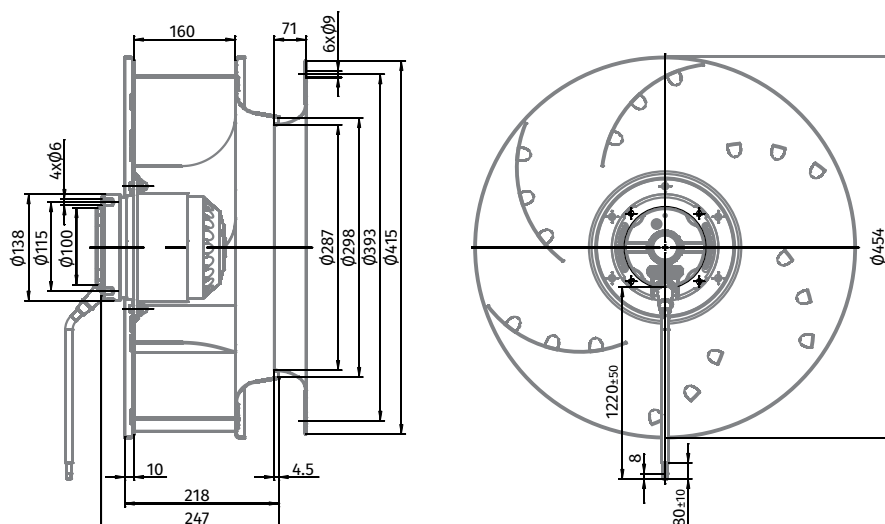


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B450A-4D-Q02-01	I	230	50	1260	810	2.35	74	-25 ... +60	-	B1
		400	50	1260	810	1.36	74	-25 ... +60	-	B2
BL-B450A-6D-M01-01	II	230	50	940	330	0.90	60	-25 ... +60	-	B1
		400	50	940	330	0.90	60	-25 ... +60	-	B2



Overall Dimensions



Ø 500 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



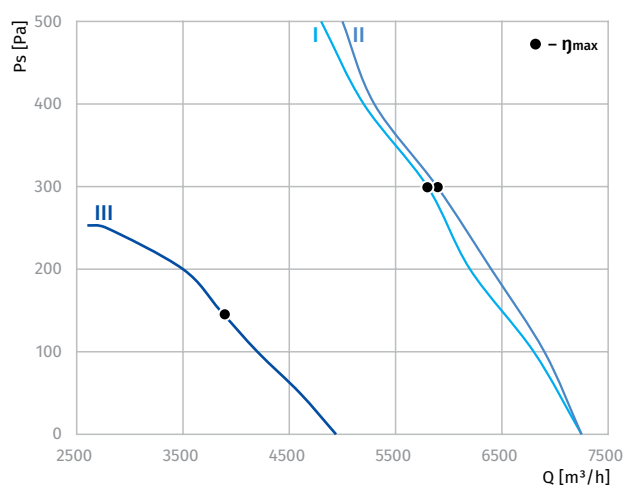
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

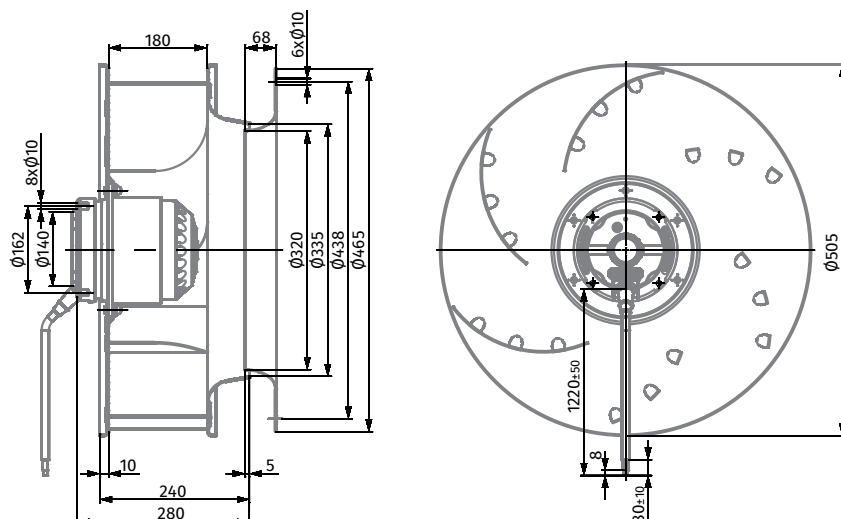


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B500A-4E-Q01-01	I	230	50	1380	1550	6.80	77	-25 ... +40	31.0/450	A
BL-B500A-4D-R01-01	II	230	50	1330	1560	2.90	77	-25 ... +50	-	B1
		400	50	1030	1100	1.60	77	-25 ... +50	-	B2
BL-B500A-6D-N01-01	III	230	50	900	650	3.00	65	-25 ... +60	-	B1
		400	50	900	650	1.45	65	-25 ... +60	-	B2



Overall Dimensions



Ø 560 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



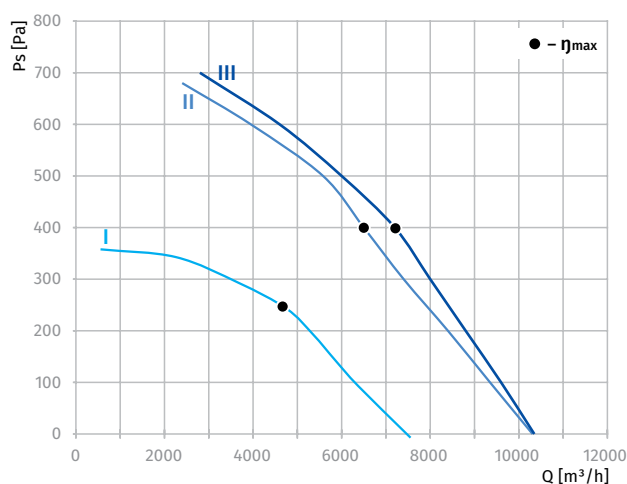
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

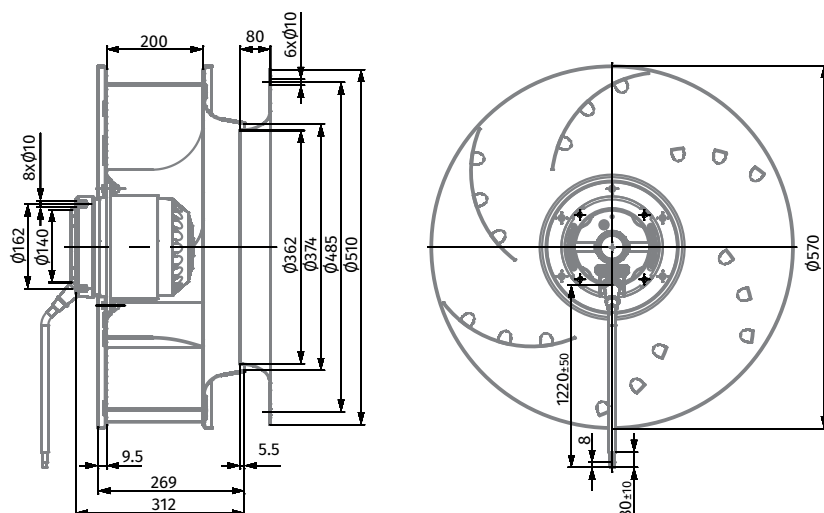


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B560A-6E-Q01-01	I	230	50	900	700	3.1	69	-25 ... +50	19.0/450	A
BL-B560A-4D-S01-01	II	230	50	1250	1800	3.2	79	-25 ... +40	-	B1
		400	50	860	960	1.8	79	-25 ... +40	-	B2
BL-B560A-4D-S02-01	III	230	50	1250	2200	6.5	79	-25 ... +45	-	B1
		400	50	1250	2200	3.7	79	-25 ... +45	-	B2



Overall Dimensions



Ø 560 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



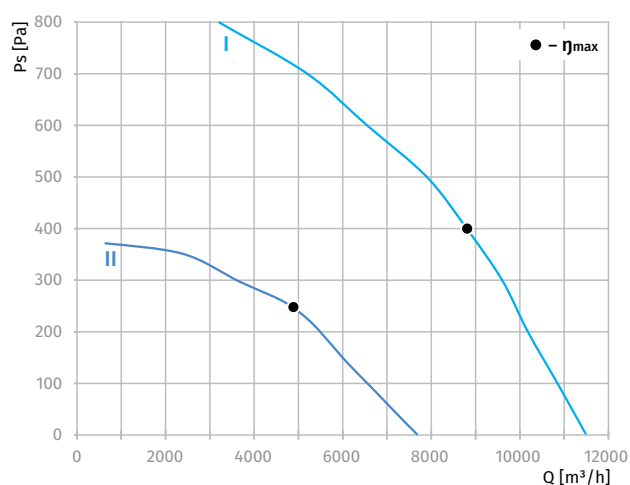
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

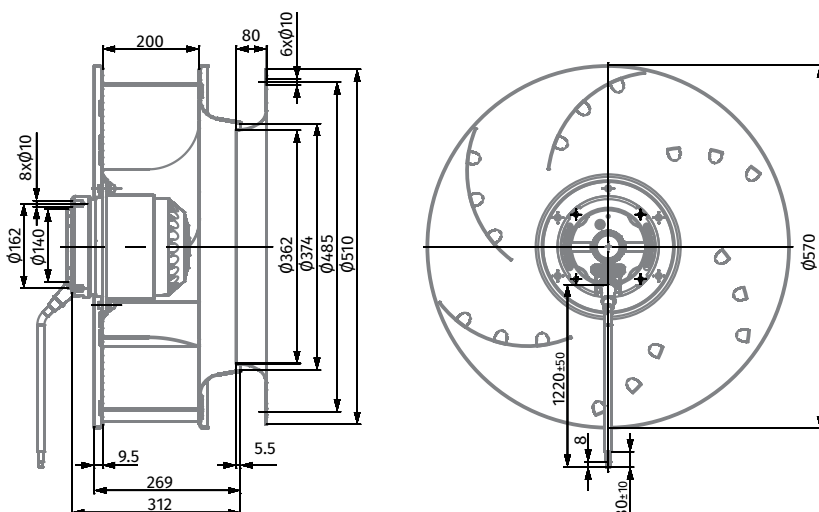


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B560A-4D-S03-01	I	400	50	1325	2300	3.70	81	-25 ... +50	-	B1
BL-B560A-6D-R01-01	II	230	50	870	780	2.69	69	-25 ... +50	-	B1
		400	50	870	780	1.55	69	-25 ... +50	-	B2



Overall Dimensions



Ø 630 mm, BACKWARD CURVED

AC CENTRIFUGAL FAN



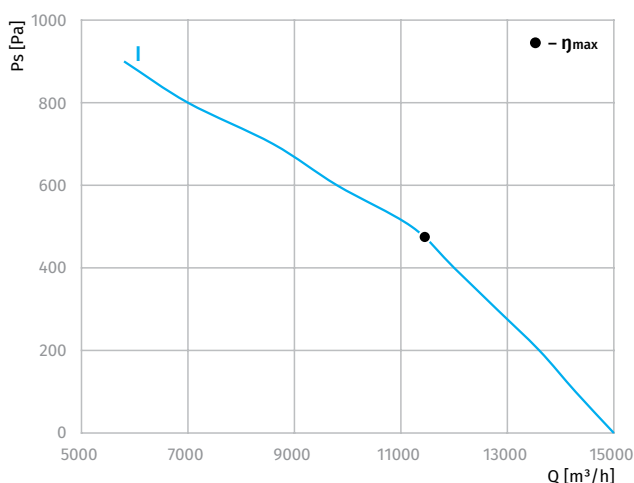
Features

- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

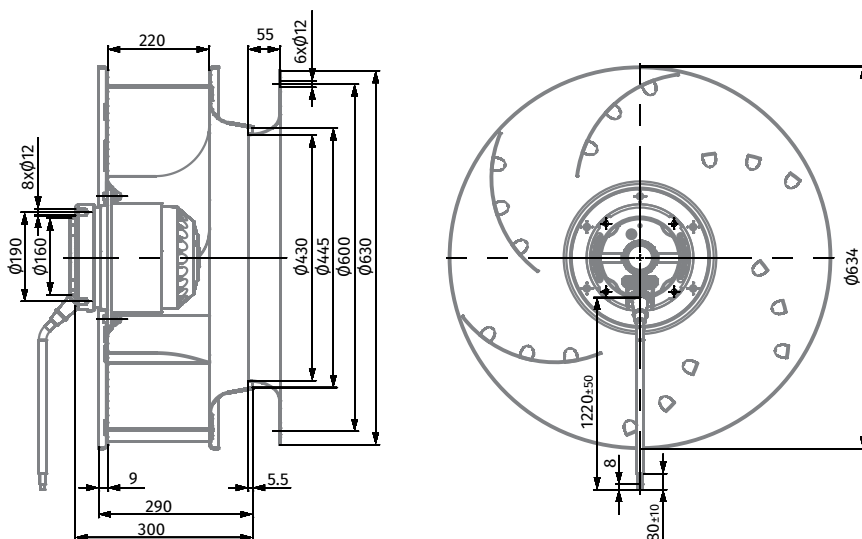


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B630A-4D-T01-01	I	230	50	1370	4300	11.8	81	-25 ... +60	-	B1
		400	50	1370	4300	6.8	81	-25 ... +60	-	B2



Overall Dimmensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 630 MM, BACKWARD CURVED

AC CENTRIFUGAL FAN



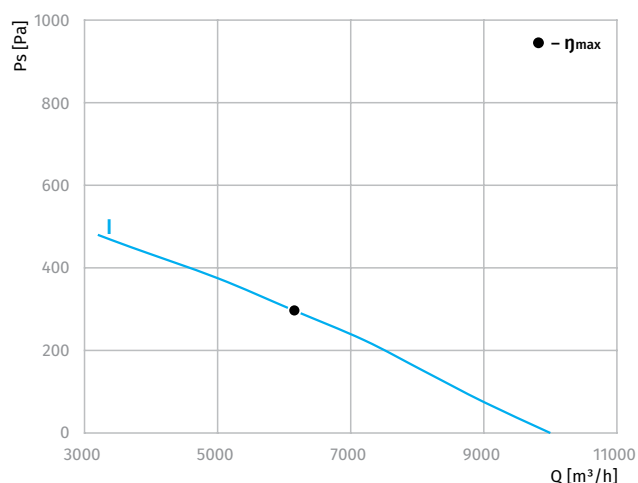
Features

- o **Impeller material:** sheet aluminium
- o **Direction of rotation:** clockwise, seen on rotor
- o **Type of protection:** IP54
- o **Insulation class:** F
- o **Mode of operation:** continuous operation (S1)
- o **Bearing:** ball bearings
- o **Motor protection:** self-resetting TOP wired internally

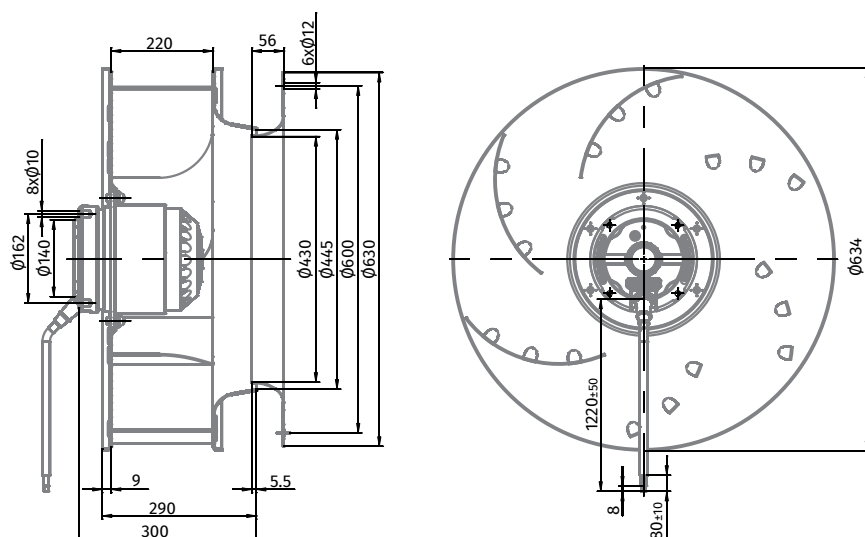


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B630A-6D-S01-01	I	230	50	900	1200	4.68	76	-25 ... +50	-	B1
		400	50	900	1200	2.70	76	-25 ... +50	-	B2



Overall Dimensions



BACKWARD CURVED EC CENTRIFUGAL FANS

Ø 133 MM, BACKWARD CURVED

EC CENTRIFUGAL FAN



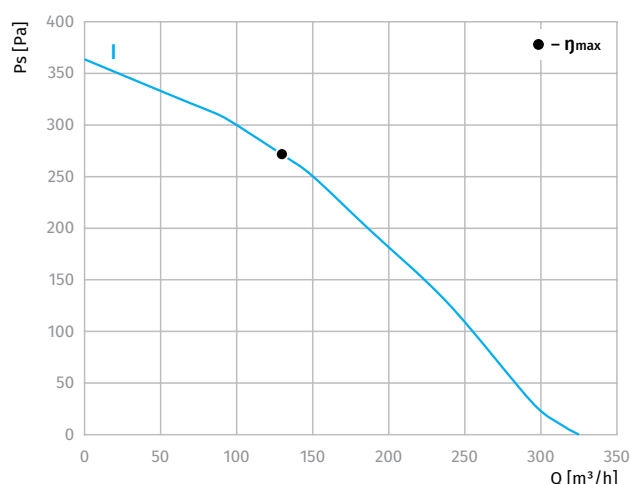
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

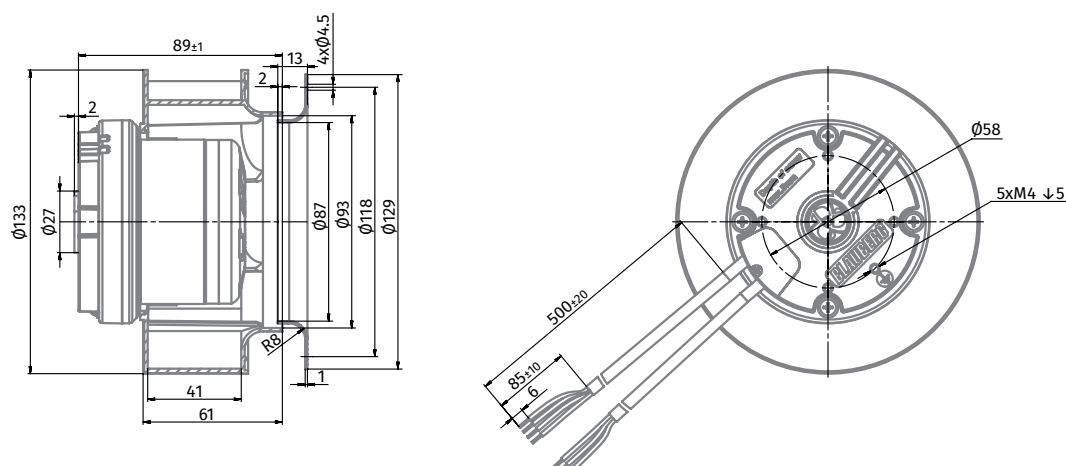


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B133A-EC-00	I	230	50/60	4240	42	0.36	71	-25 ... +60	-	E



Overall Dimensions



Ø 175 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



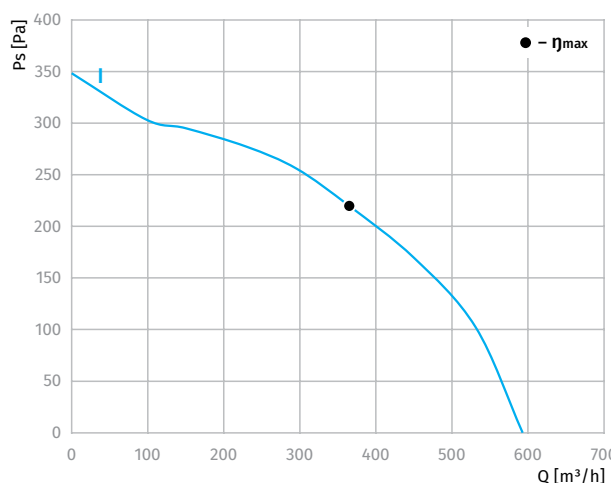
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

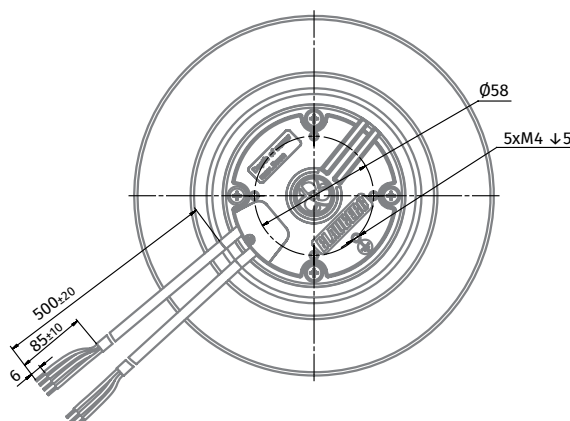
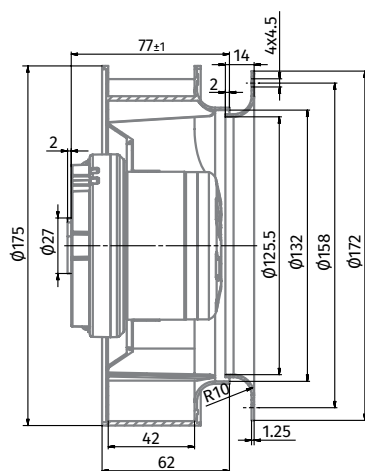


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B175A-EC-00	I	230	50/60	3110	49	0.38	72	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 190 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



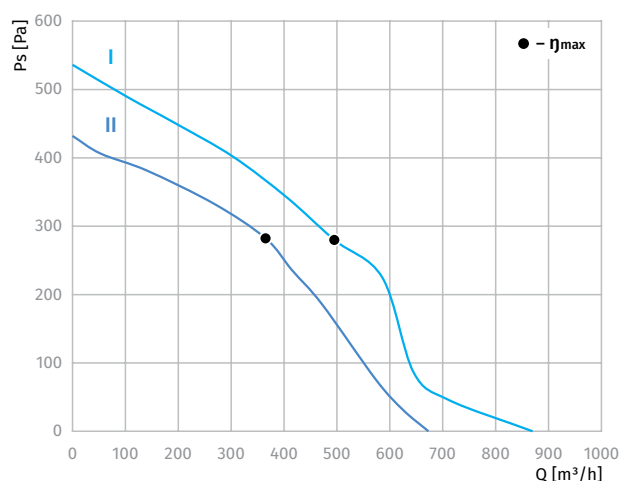
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

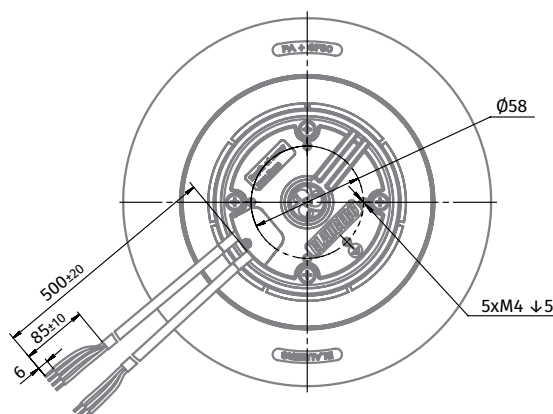
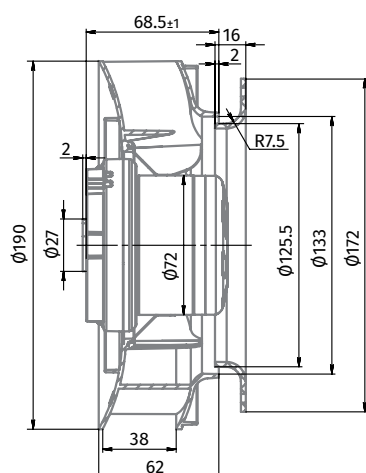


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B190B-EC-00	I	230	50/60	3300	87	0.65	72	-25 ... +60	-	E
BL-B190B-EC-01	II	230	50/60	2940	64	0.53	71	-25 ... +60	-	E



Overall Dimensions



Ø 190 MM, BACKWARD CURVED

EC CENTRIFUGAL FAN



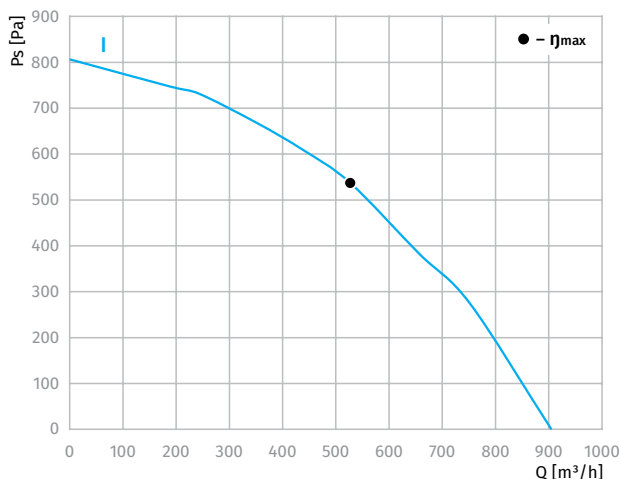
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

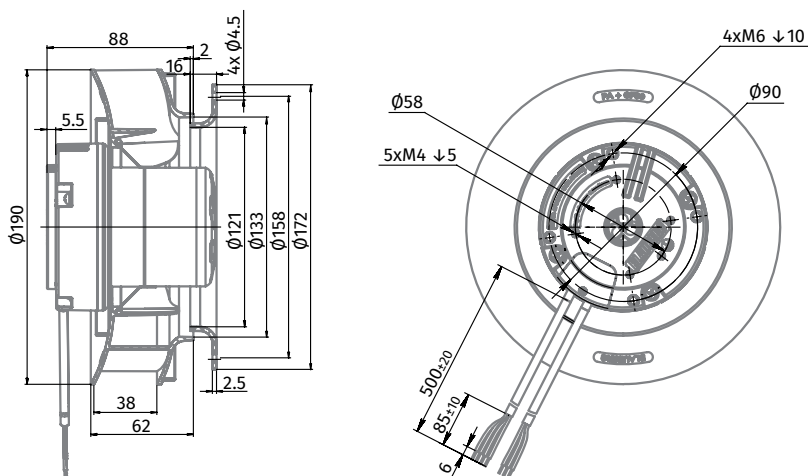


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B190B-EC-03	I	230	50/60	4100	170	1.3	72	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 220 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



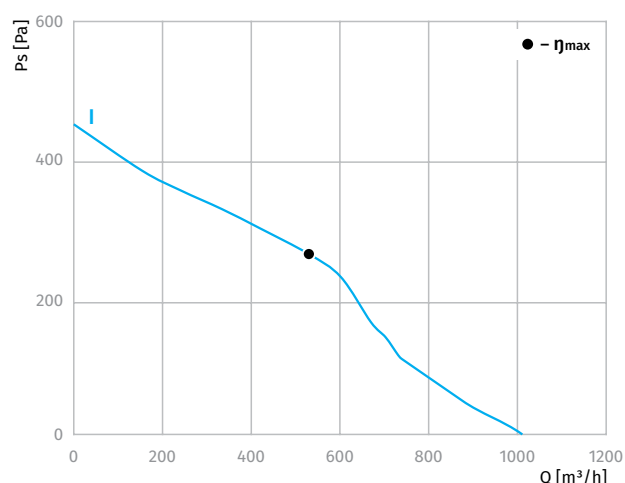
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

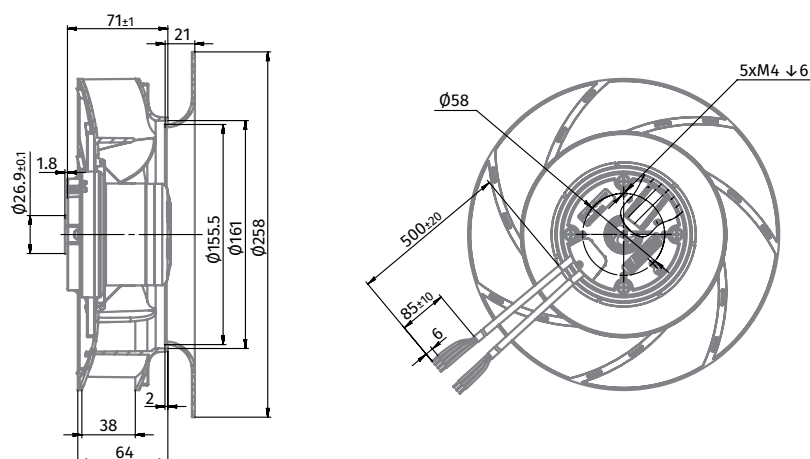


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B220C-EC-00	I	230	50/60	2470	86	0.71	70	-25 ... +60	-	E



Overall Dimensions



Ø 220 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



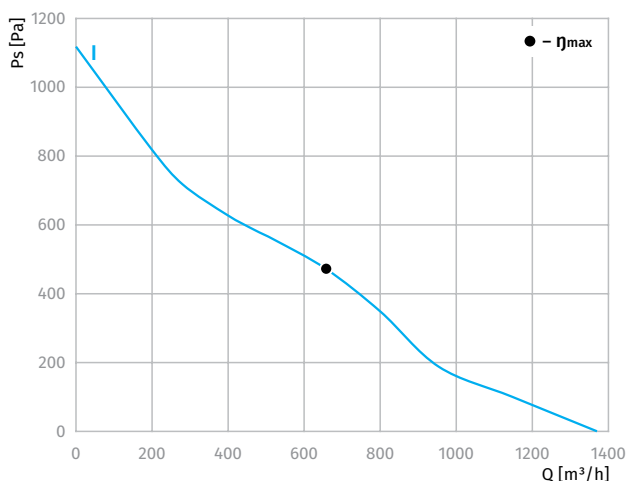
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

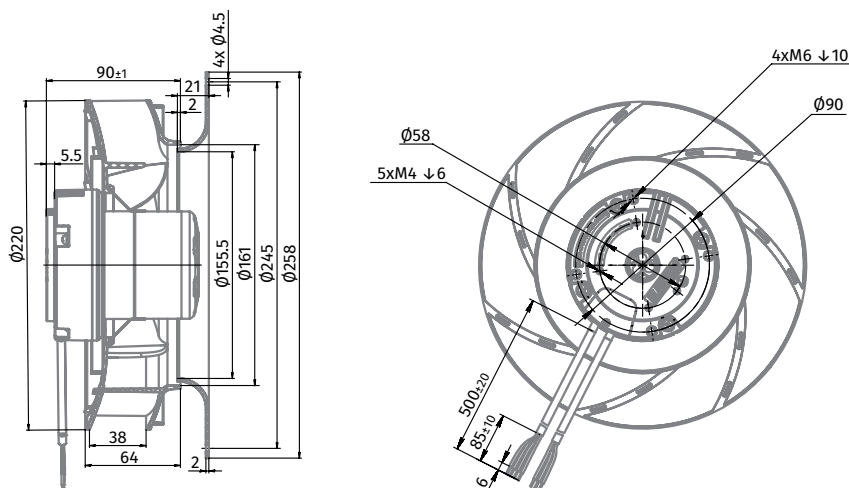


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B220C-EC-01	I	230	50/60	2250	168	1.27	72	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 225 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



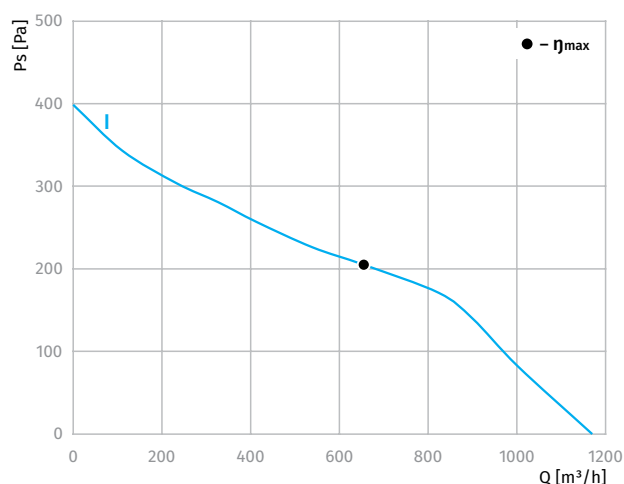
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

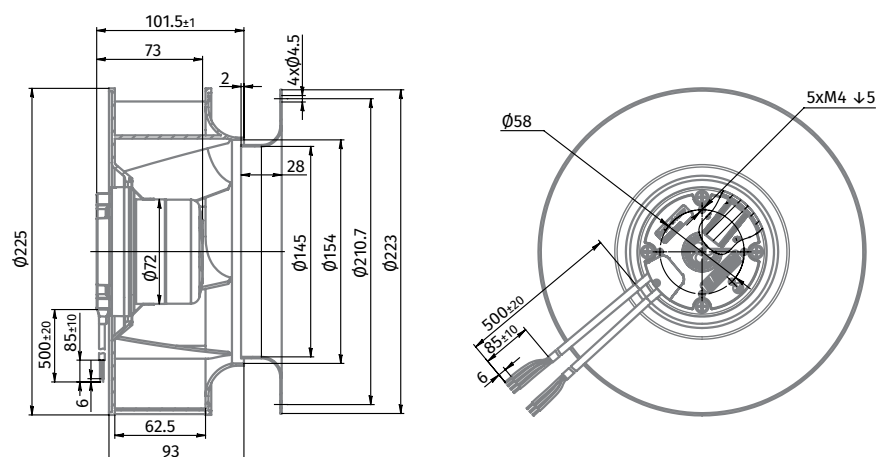


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B225D-EC-00	I	230	50/60	2140	85	0.68	62	-25 ... +60	-	E



Overall Dimensions



Ø 225 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



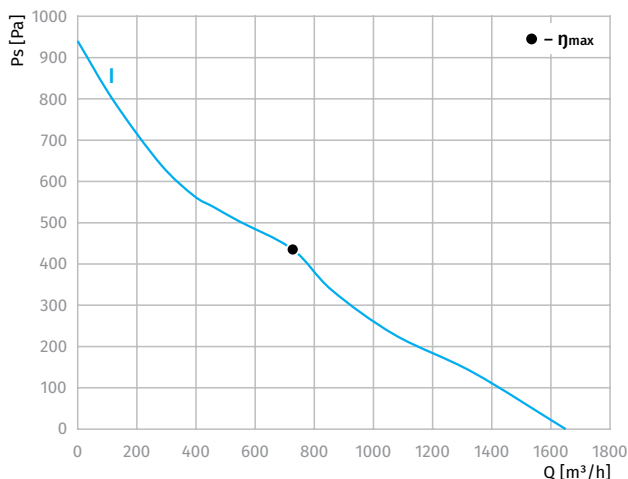
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

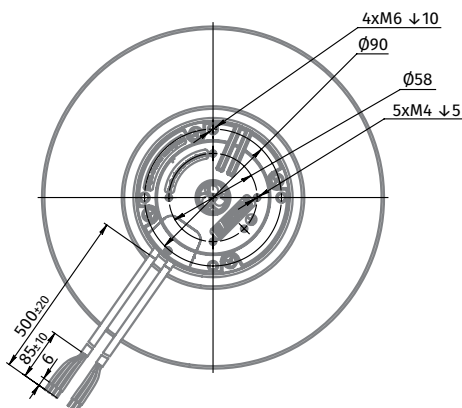
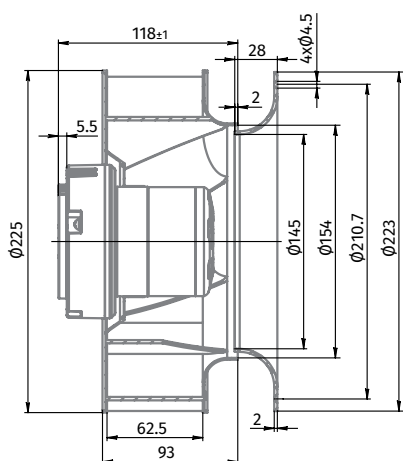


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B225D-EC-01	I	230	50/60	2950	168	1.26	72	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 250 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



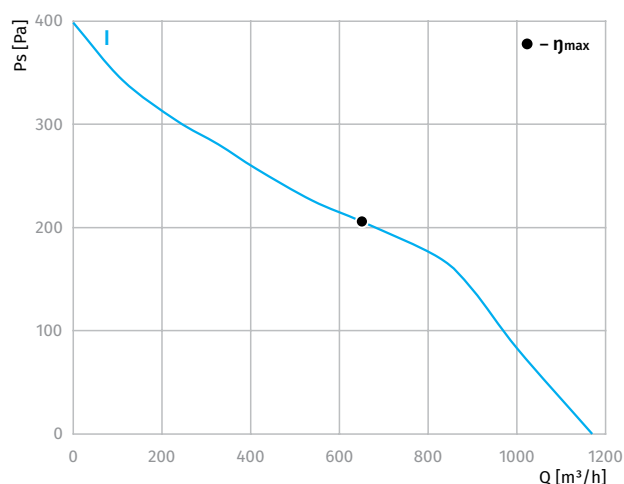
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

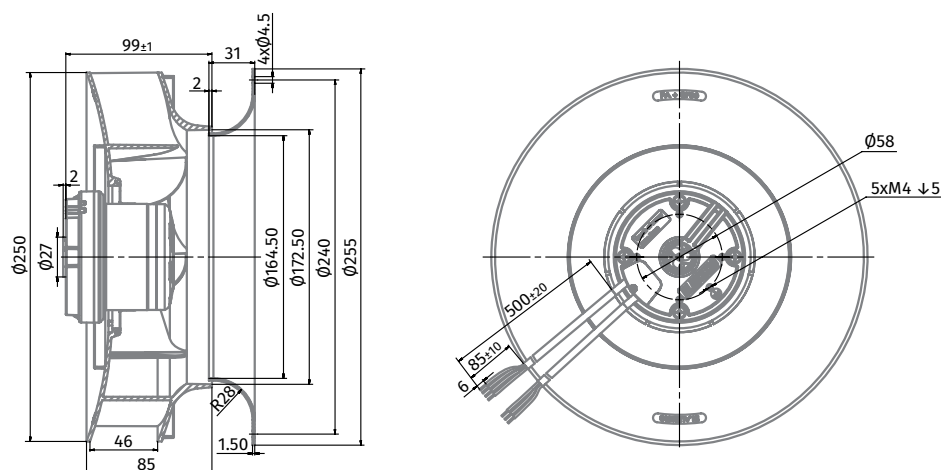


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B250B-EC-00	I	230	50/60	1810	85	0.68	72	-25 ... +60	-	E



Overall Dimensions



Ø 250 MM, BACKWARD CURVED

EC CENTRIFUGAL FAN



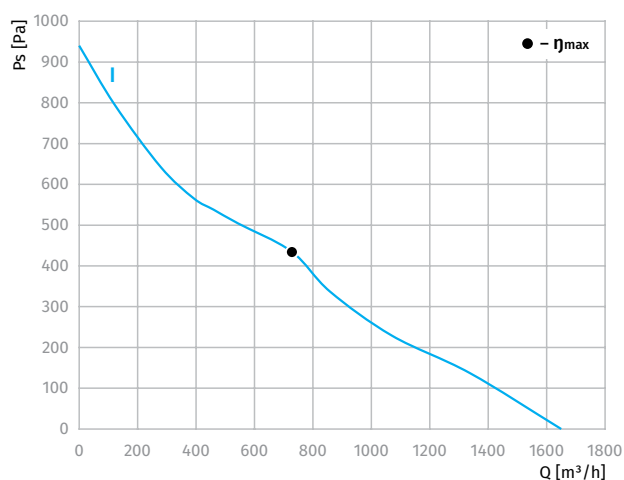
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 30% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

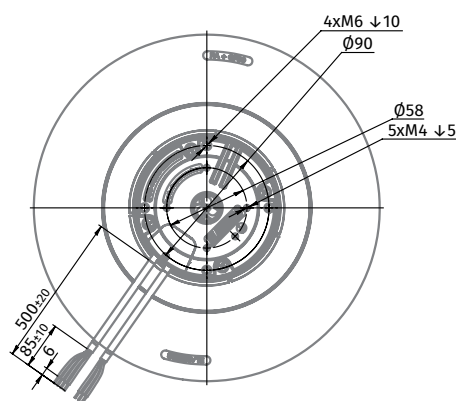
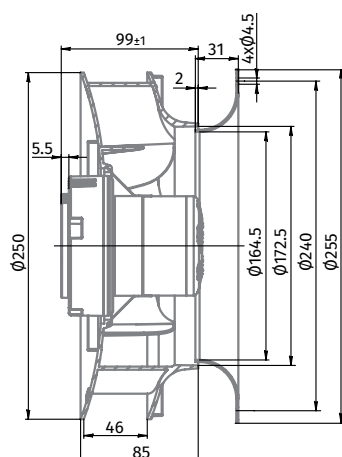


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B250B-EC-01	I	230	50/60	2570	169	1.27	73	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

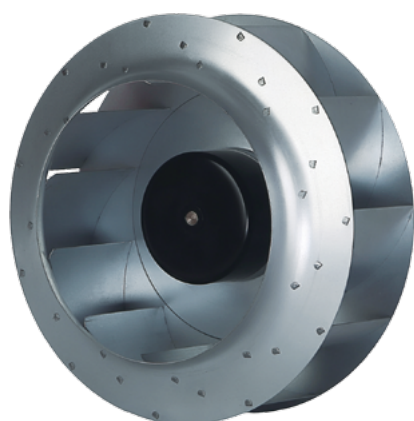
AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 250 MM, BACKWARD CURVED

EC CENTRIFUGAL FAN



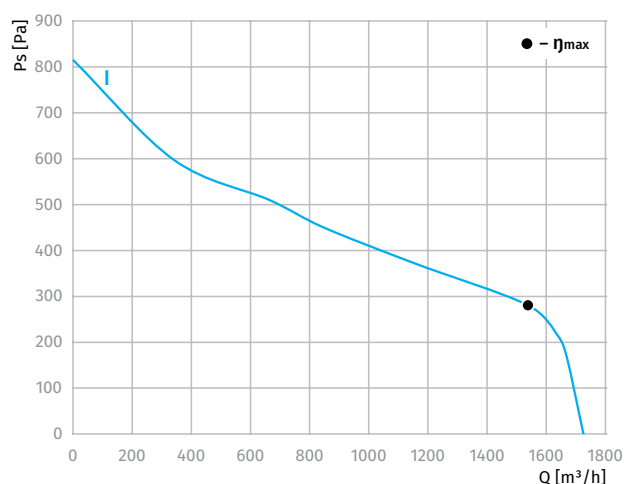
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

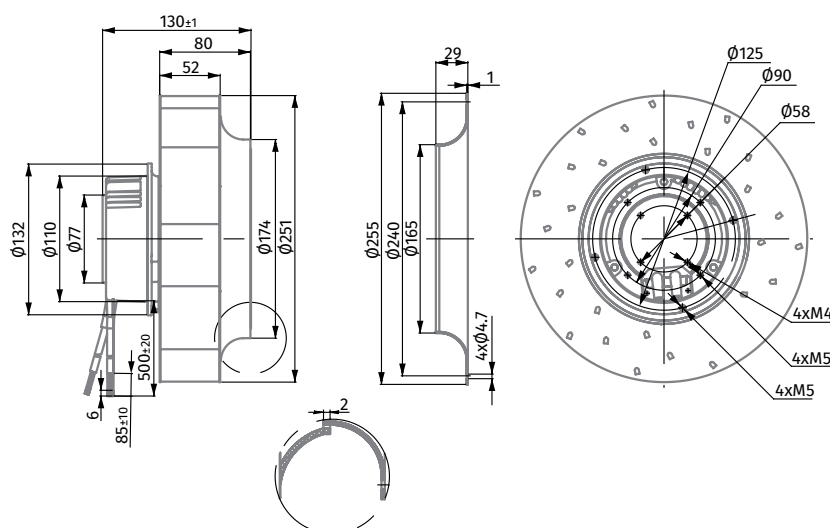


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B250C-EC-02	I	230	50/60	2650	182	1.43	75	-25 ... +60	-	E

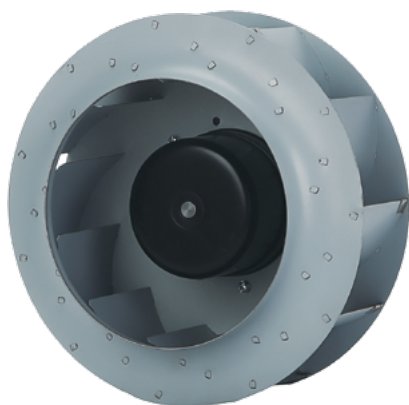


Overall Dimensions



Ø 250 MM, BACKWARD CURVED

EC CENTRIFUGAL FAN



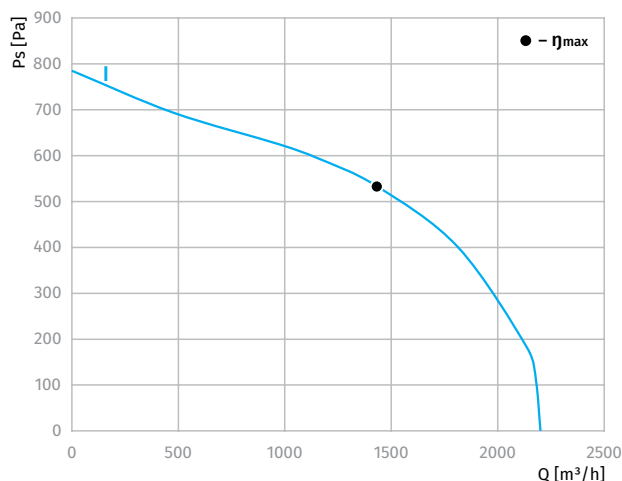
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

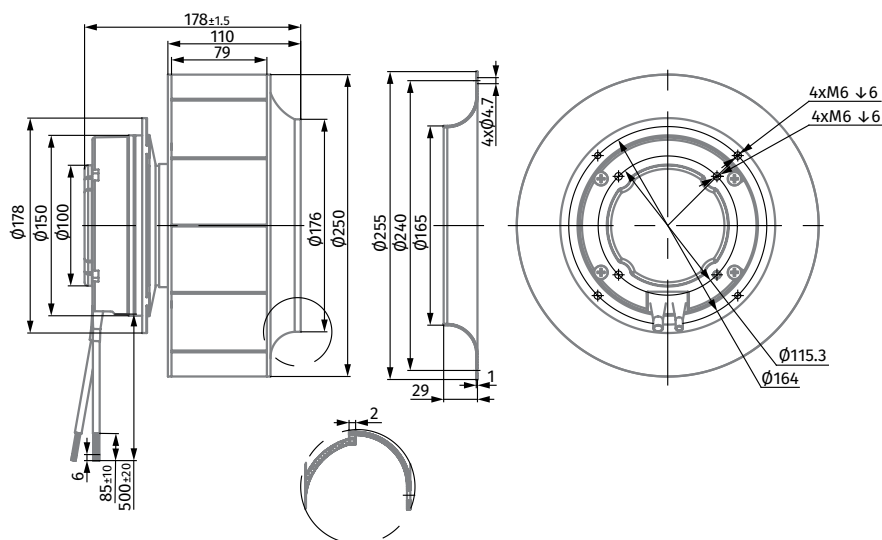


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B250D-EC-04	I	230	50/60	2990	372	2.81	75	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

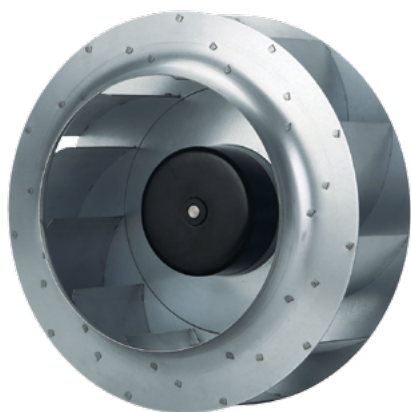
AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 280 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



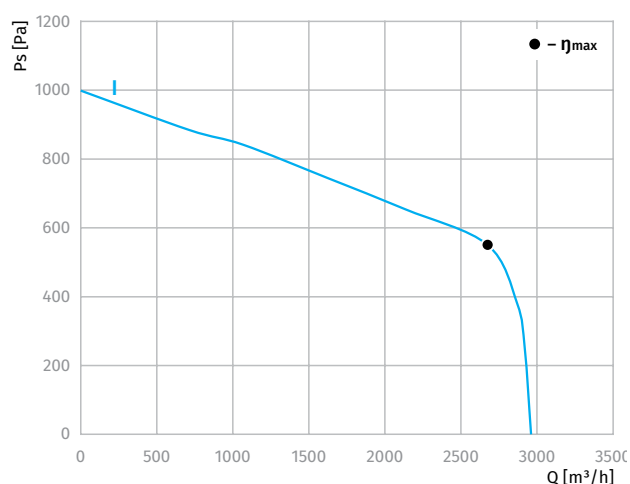
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

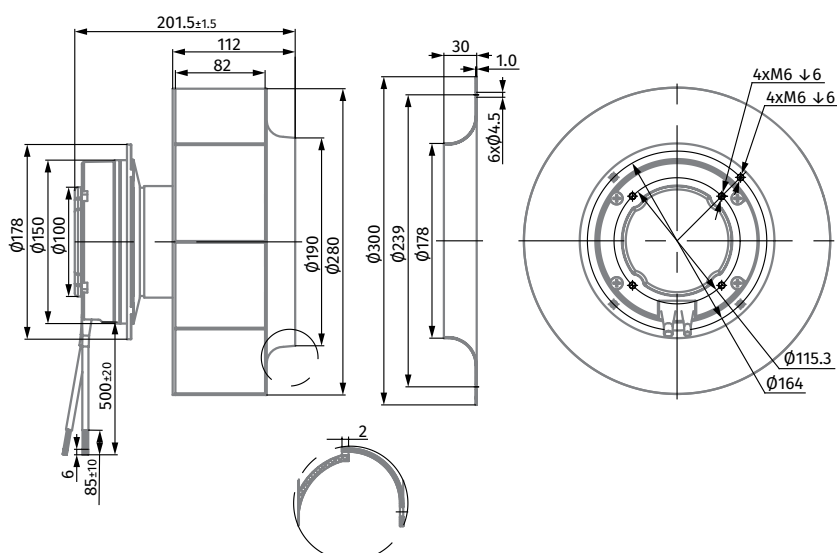


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B280D-EC-02	I	230	50/60	2740	589	4.29	75	-25 ... +60	-	E



Overall Dimensions



Ø 310 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



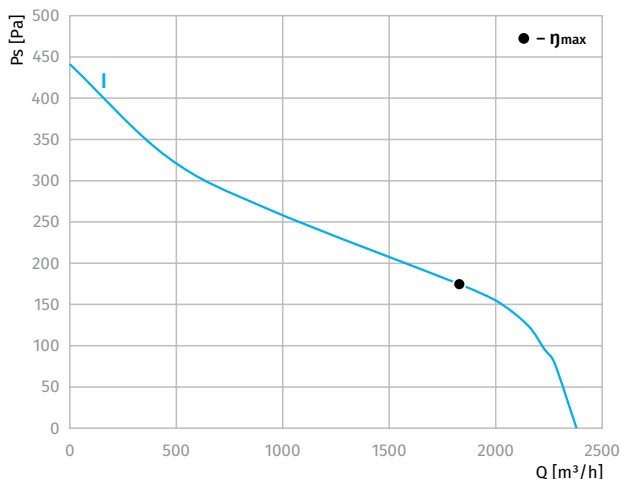
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

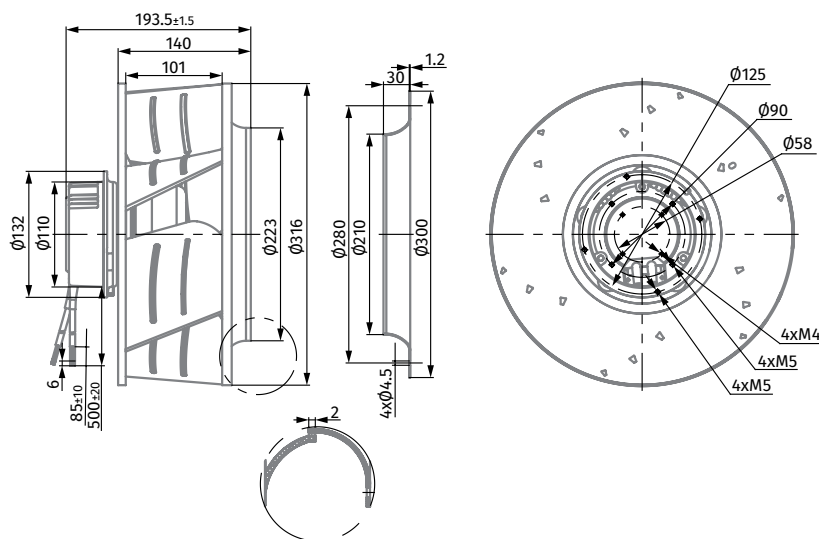


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B310B-EC-04	I	230	50/60	1410	147	1.19	57	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 310 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



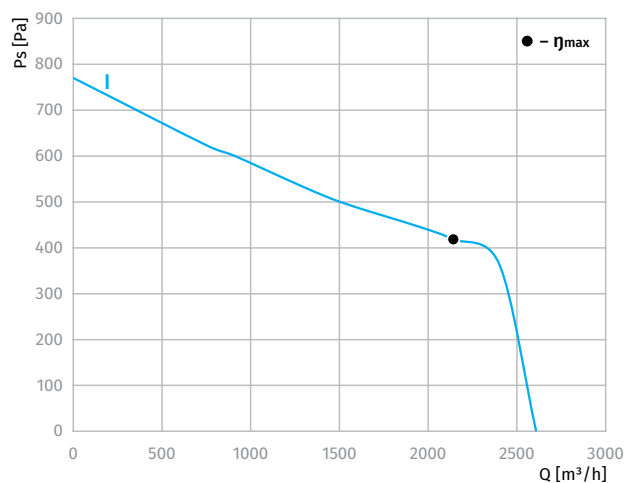
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

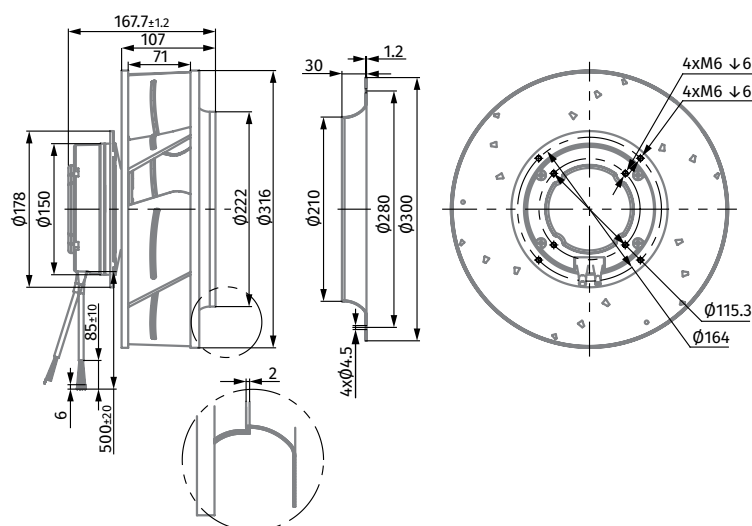


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B310A-EC-04	I	230	50/60	2190	347	2.64	71	-25 ... +60	-	E



Overall Dimensions



Ø 310 MM, BACKWARD CURVED

EC CENTRIFUGAL FAN



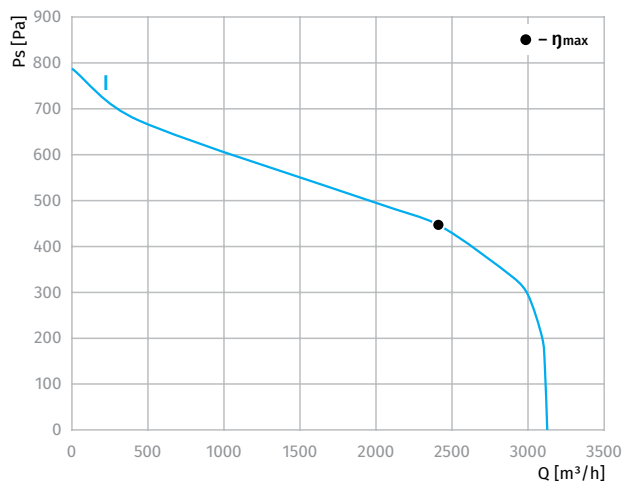
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

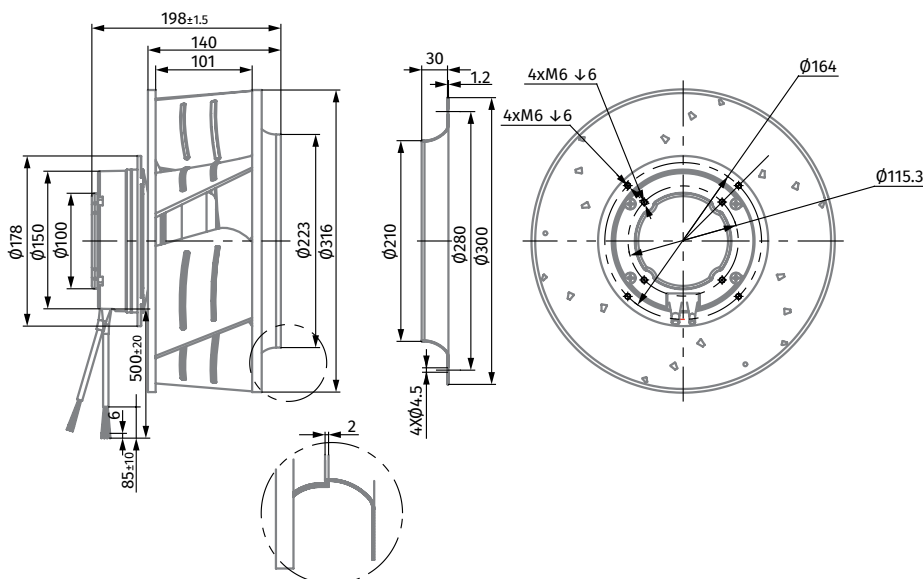


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B310B-EC-02	I	230	50/60	2160	430	3.2	75	-25 ... +60	-	E



Overall Dimensions



Ø 355 MM, BACKWARD CURVED

EC CENTRIFUGAL FAN



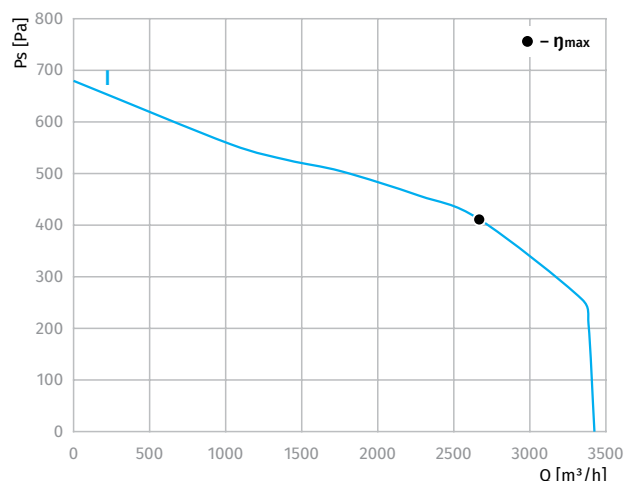
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

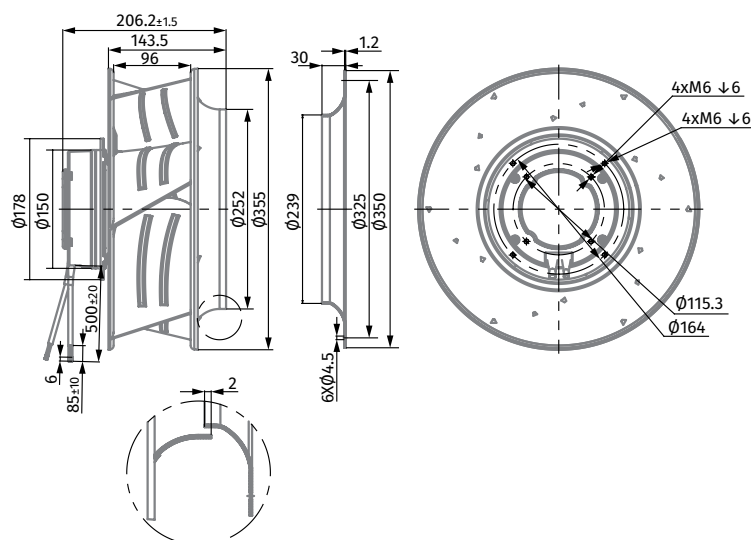


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B355B-EC-02	I	230	50/60	1530	378	2.85	73	-25 ... +60	-	E



Overall Dimensions



Ø 400 mm, BACKWARD CURVED

EC CENTRIFUGAL FAN



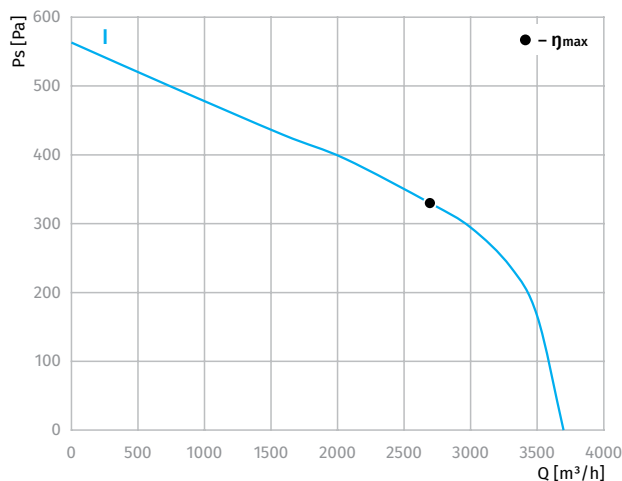
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

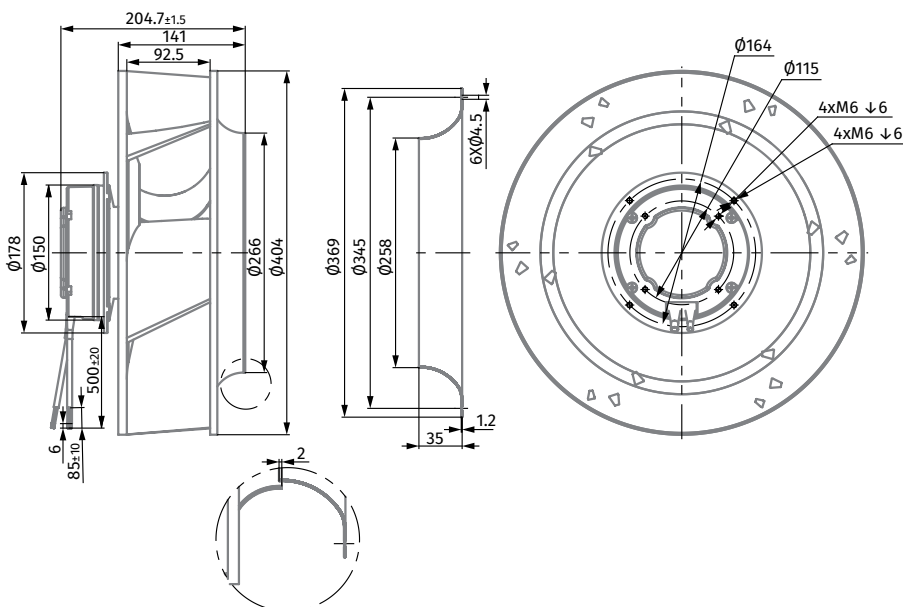


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-B400A-EC-02	I	230	50/60	1180	327	2.48	71	-25 ... +60	-	E



Overall Dimensions



FORWARD CURVED AC CENTRIFUGAL FANS

Ø 120 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



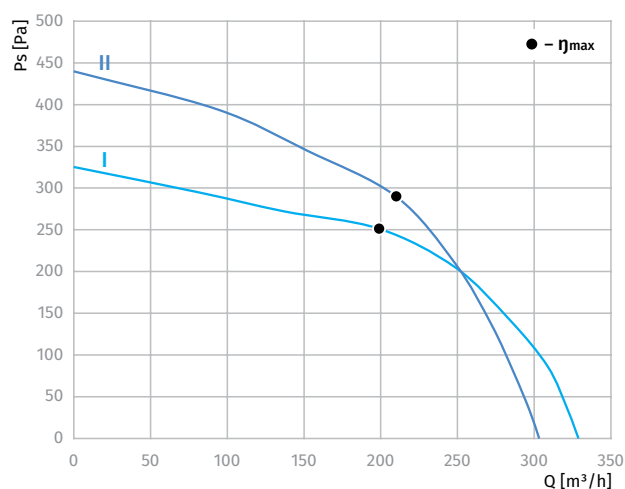
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

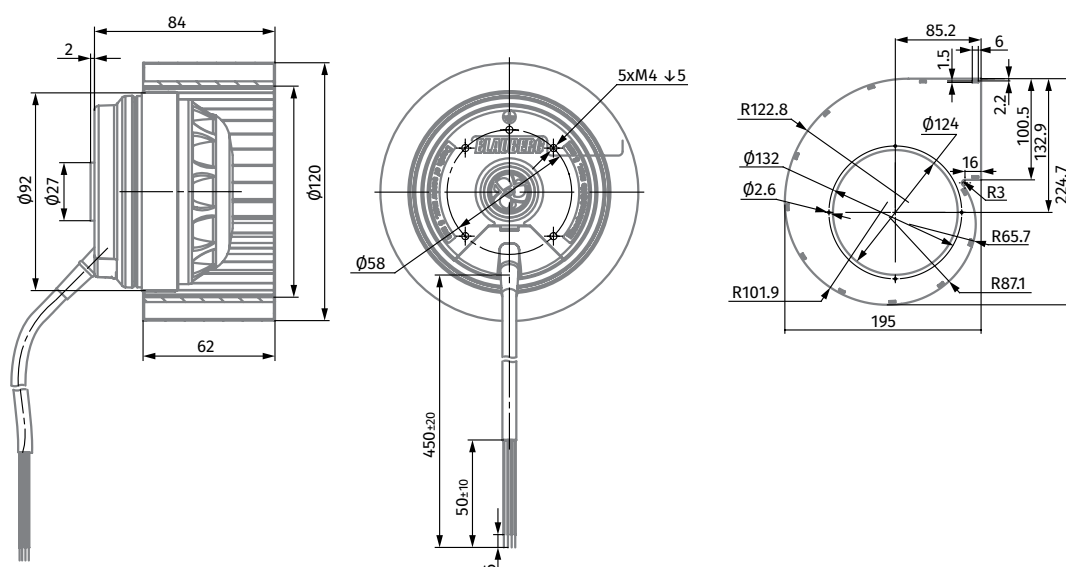


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F120A-2E-A01-01	I	230	50	2540	87	0.38	60	-25 ... +50	1.5/450	A
	II	230	60	2680	95	0.41	63	-25 ... +50	1.5/450	A



Overall Dimensions



Ø 140 MM, FORWARD CURVED

AC CENTRIFUGAL FAN



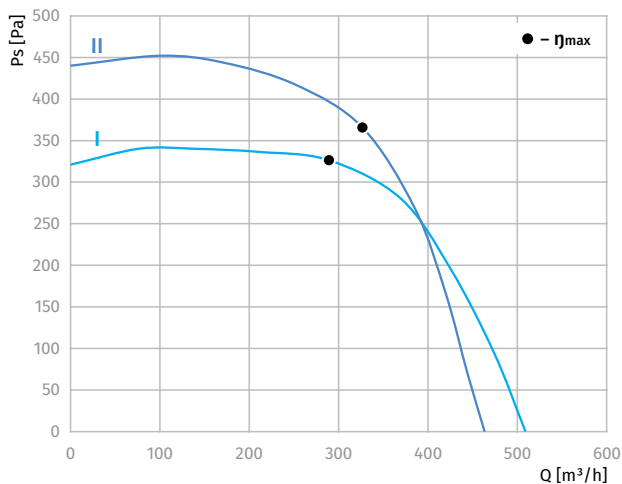
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

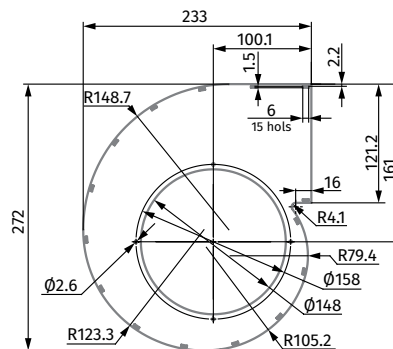
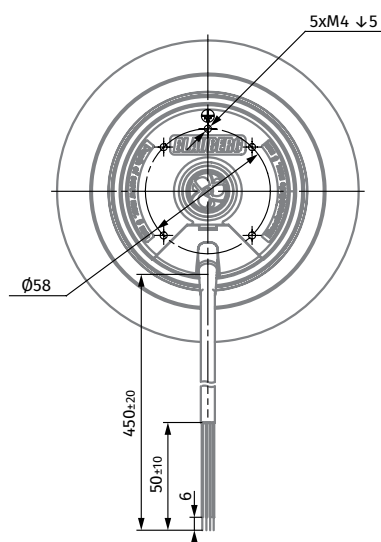
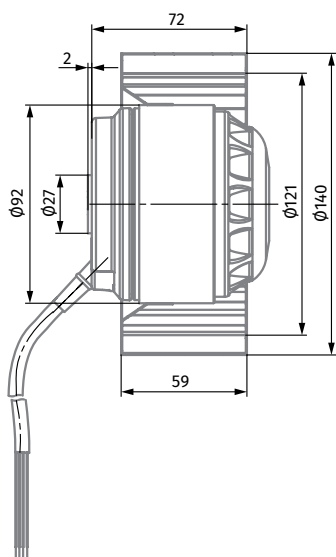


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F140A-2E-C01-01	I	230	50	2630	168	0.73	72	-25 ... +50	3.5/450	A
	II	230	60	2810	198	0.87	71	-25 ... +50	3.5/450	A



Overall Dimensions



Ø 160 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



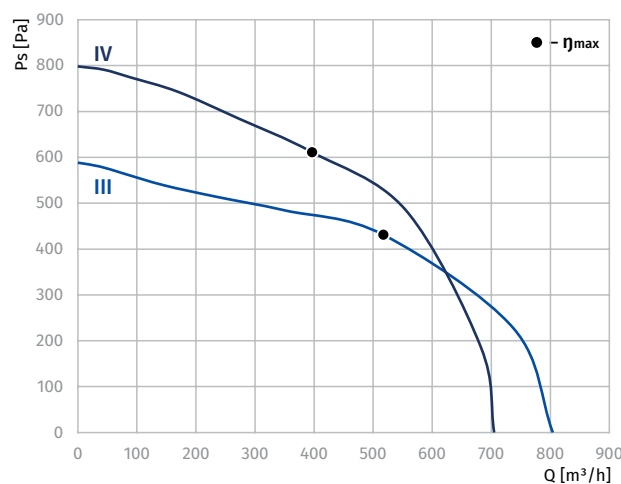
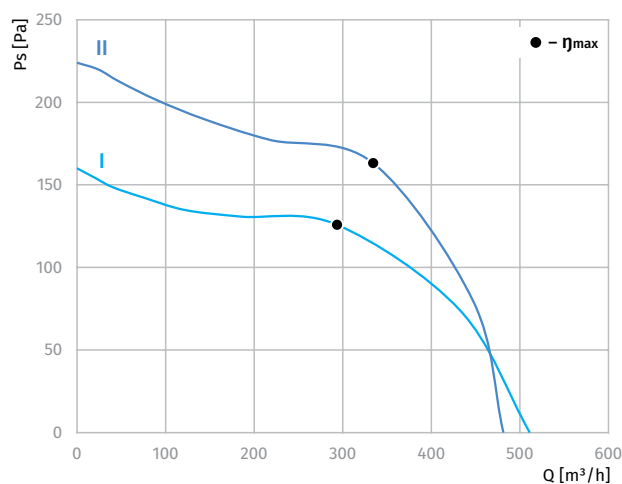
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

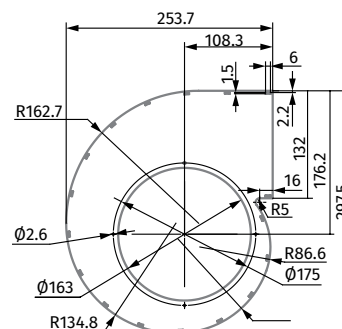
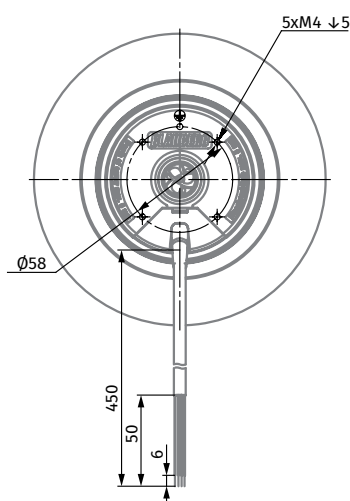
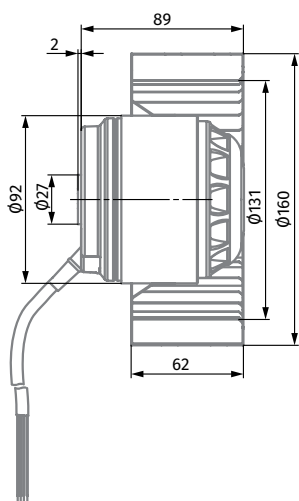


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F160A-4E-B01-01	I	230	50	1400	79	0.35	66	-25 ... +50	1.5/450	A
	II	230	60	1540	90	0.39	68	-25 ... +50	1.5/450	A
BL-F160A-2E-D01-01	III	230	50	2570	378	1.65	71	-25 ... +50	6.0/450	A
	IV	230	60	3010	418	1.84	73	-25 ... +50	6.0/450	A



Overall Dimensions



Ø 180 MM, FORWARD CURVED

AC CENTRIFUGAL FAN



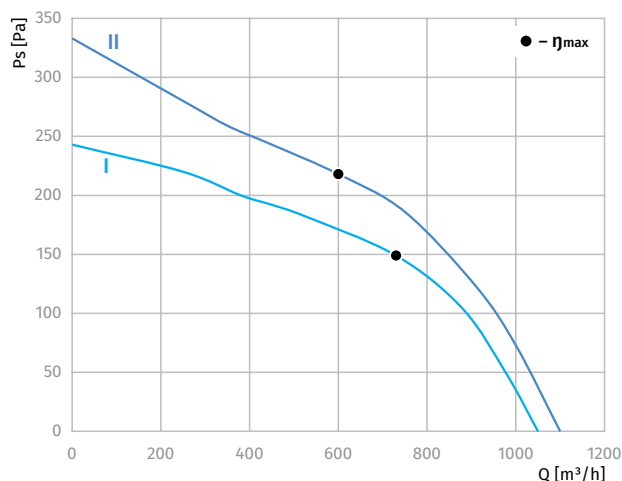
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

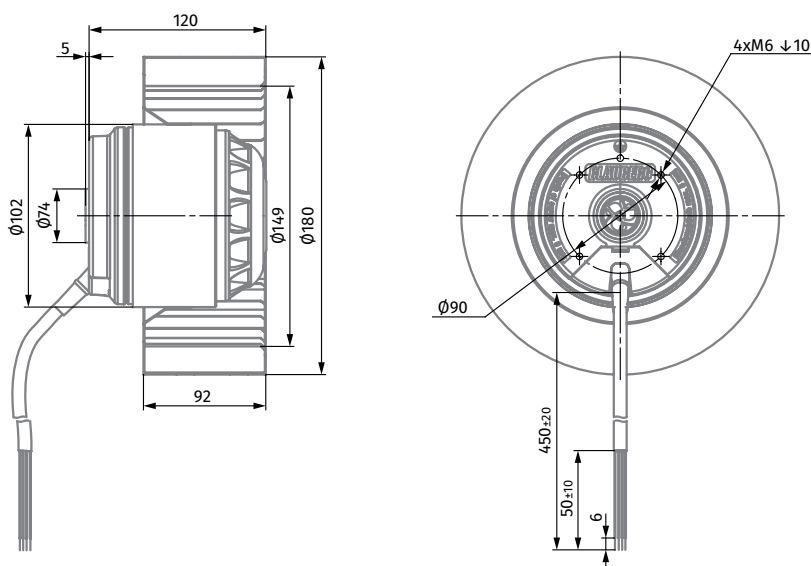


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F180B-4E-M01-01	I	230	50	1280	105	0.47	65	-25 ... +50	3.0/450	A
	II	230	60	1460	115	0.52	67	-25 ... +50	3.0/450	A



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 200 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



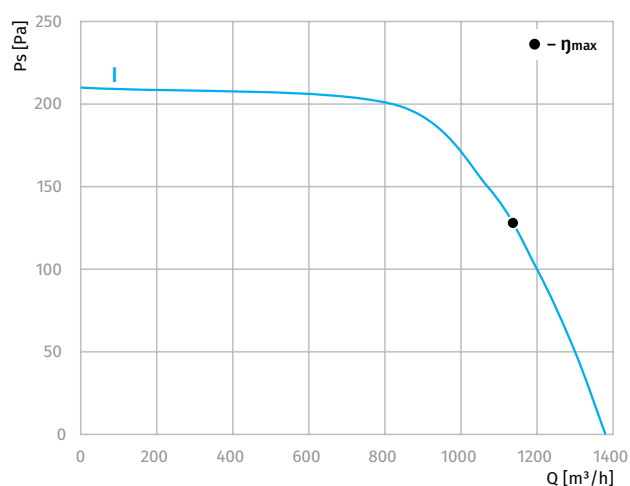
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

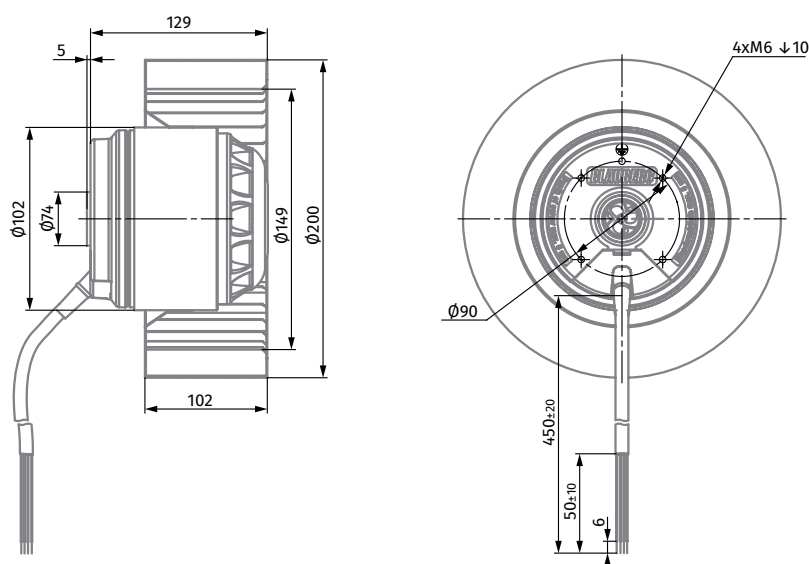


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F200C-4E-L01-01	I	230	50	1270	310	1.4	69	-25 ... +50	4.0/450	A



Overall Dimensions



Ø 225 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



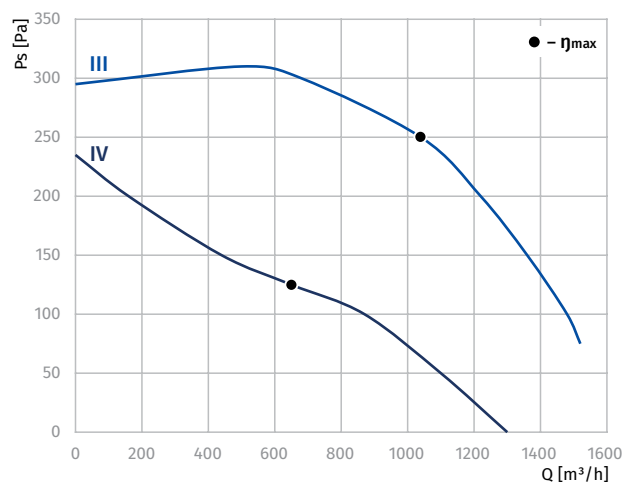
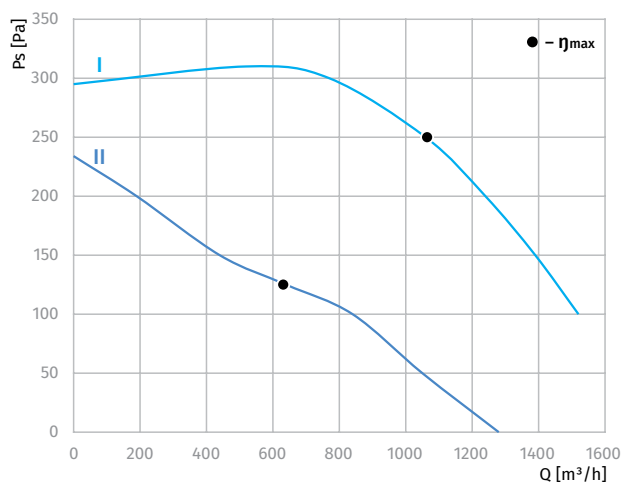
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

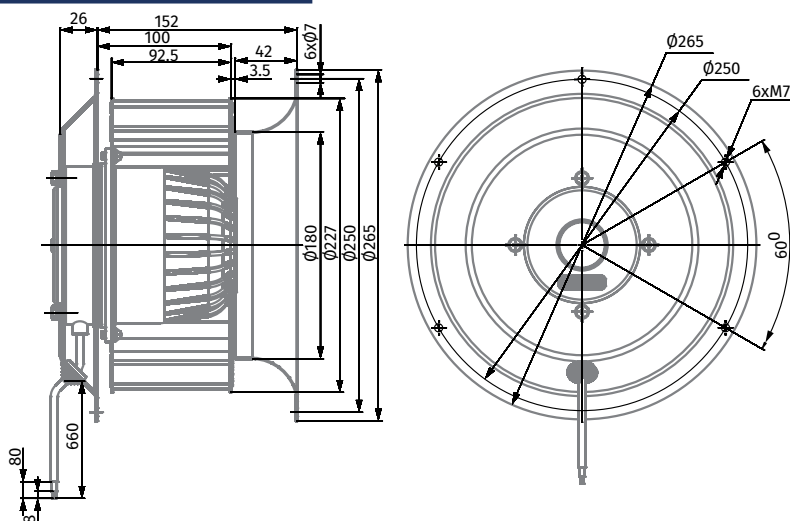


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F225A-4E-001-01	I	230	50	1320	510	2.30	71	-25 ... +50	8.0/450	A
BL-F225A-6E-001-01	II	230	50	930	250	1.30	68	-25 ... +70	6.0/450	A
BL-F225A-4D-001-01	III	230	50	1300	490	1.43	71	-25 ... +60	-	B1
		400	50	1300	490	0.82	71	-25 ... +60	-	B2
BL-F225A-6D-L01-01	IV	230	50	930	300	1.40	68	-25 ... +70	-	B1
		400	50	930	300	0.81	68	-25 ... +70	-	B2



Overall Dimensions



Ø 250 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



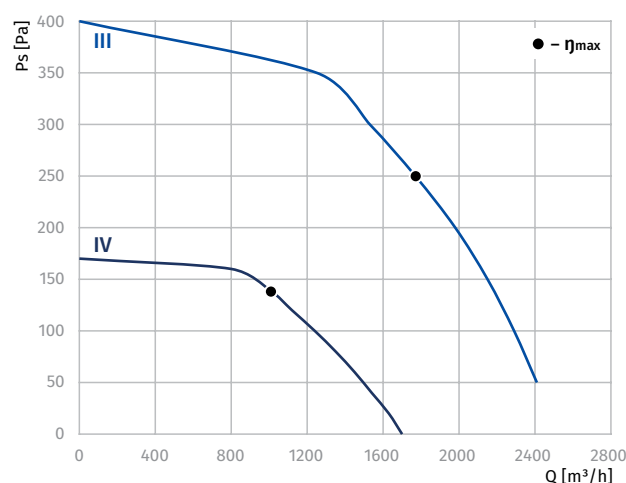
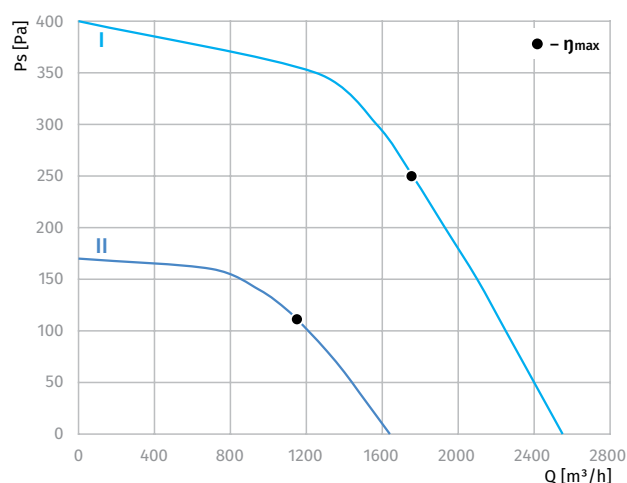
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

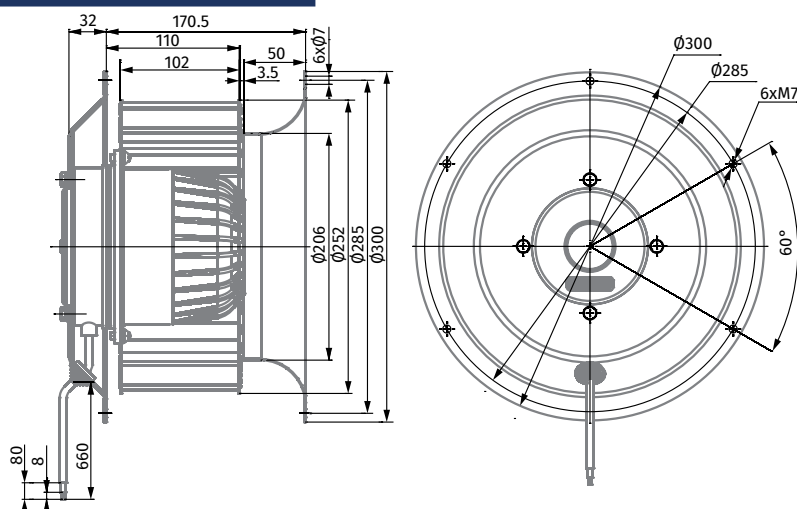


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F250A-4E-P01-01	I	230	50	1330	900	4.10	73	-25 ... +60	16.0/450	A
BL-F250A-6E-001-01	II	230	50	900	320	1.60	70	-25 ... +70	5.0/450	A
BL-F250A-4D-P01-01	III	230	50	1400	870	3.10	74	-25 ... +70	-	B1
		400	50	1400	870	1.80	74	-25 ... +70	-	B2
BL-F250A-6D-L01-01	IV	230	50	910	320	1.40	70	-25 ... +70	-	B1
		400	50	910	320	0.81	70	-25 ... +70	-	B2



Overall Dimensions



Ø 280 MM, FORWARD CURVED

AC CENTRIFUGAL FAN



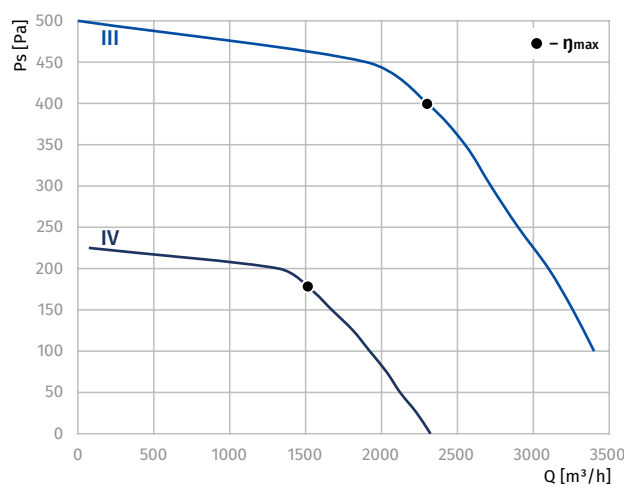
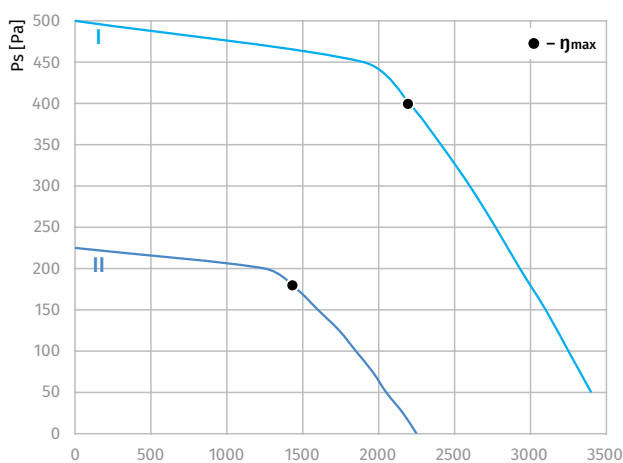
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

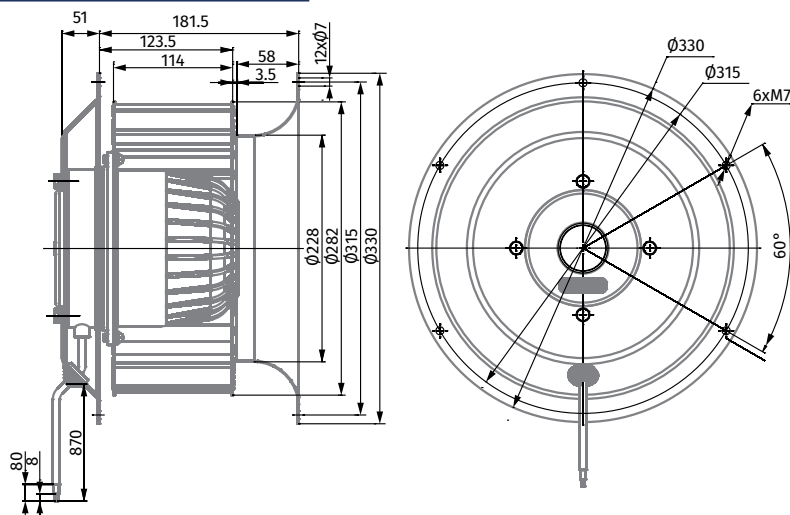


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F280A-4E-Q01-01	I	230	50	1360	1600	7.30	74	-25 ... +50	31.0/450	A
BL-F280A-6E-P01-01	II	230	50	900	450	2.20	72	-25 ... +80	8.0/450	A
BL-F280A-4D-P01-01	III	230	50	1360	1700	5.40	75	-25 ... +60	-	B1
		400	50	1360	1700	3.20	75	-25 ... +60	-	B2
BL-F280A-6D-M01-01	IV	230	50	900	450	1.48	72	-25 ... +80	-	B1
		400	50	900	450	0.85	72	-25 ... +80	-	B2



Overall Dimensions



Ø 315 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



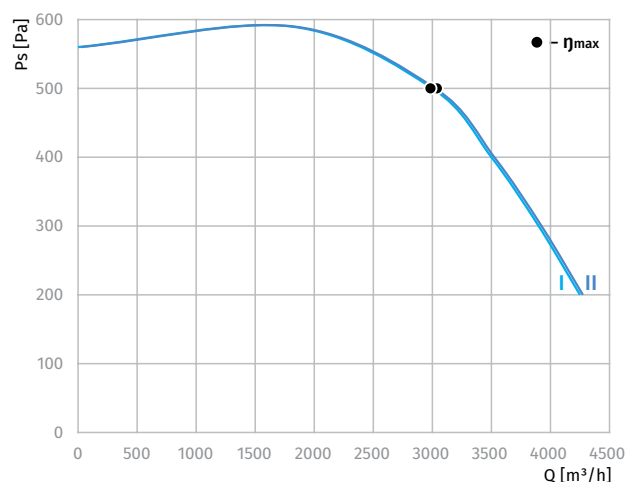
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

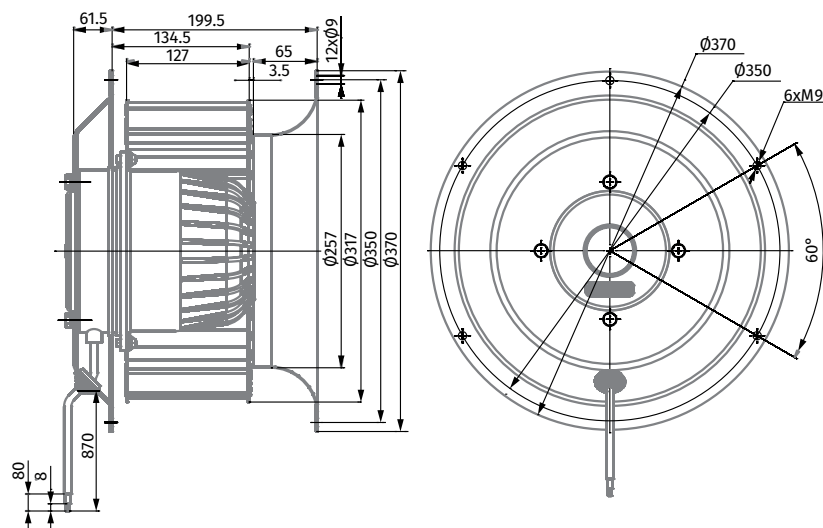


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F315A-4E-R01-01	I	230	50	1360	2300	10.0	75	-25 ... +40	50.0/450	A
BL-F315A-4D-Q01-01	II	230	50	1360	2200	6.9	75	-25 ... +60	-	B1
		400	50	1360	2200	4.0	75	-25 ... +60	-	B2



Overall Dimensions



Ø 315 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



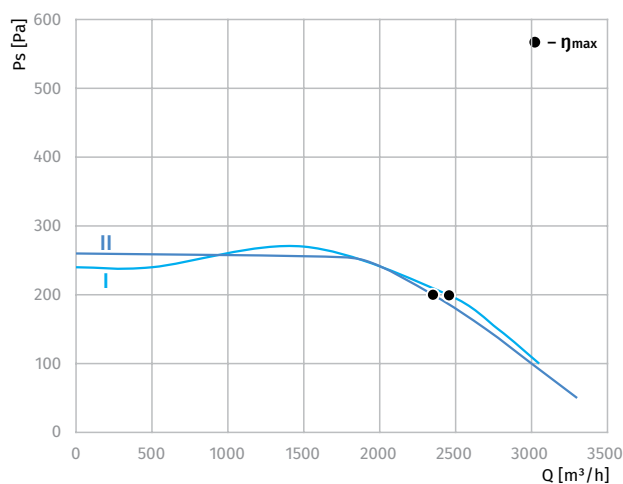
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

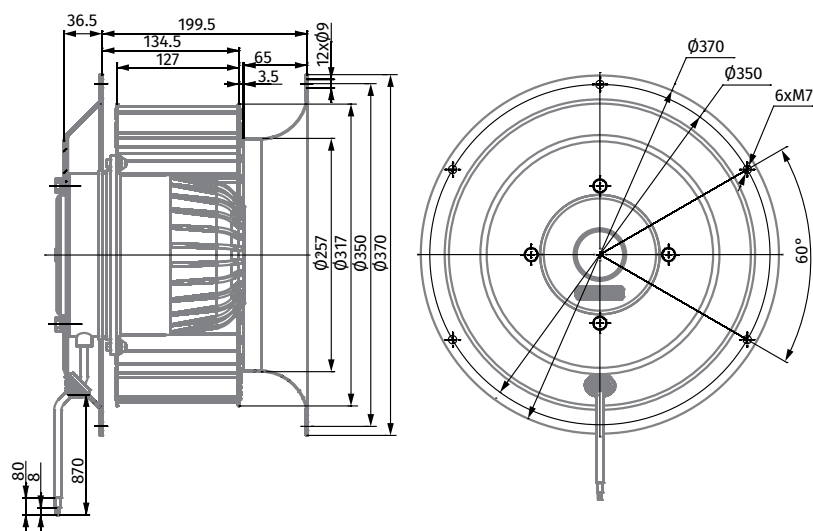


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F315A-6E-Q01-01	I	230	50	870	720	3.6	74	-25 ... +70	12.0/450	A
BL-F315A-6D-M01-01	II	230	50	940	780	2.6	74	-25 ... +80	-	B1
		400	50	940	780	1.5	74	-25 ... +80	-	B2



Overall Dimmensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 355 MM, FORWARD CURVED

AC CENTRIFUGAL FAN



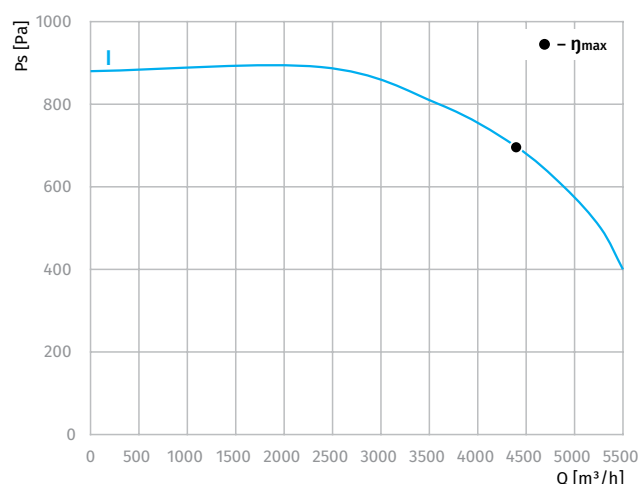
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

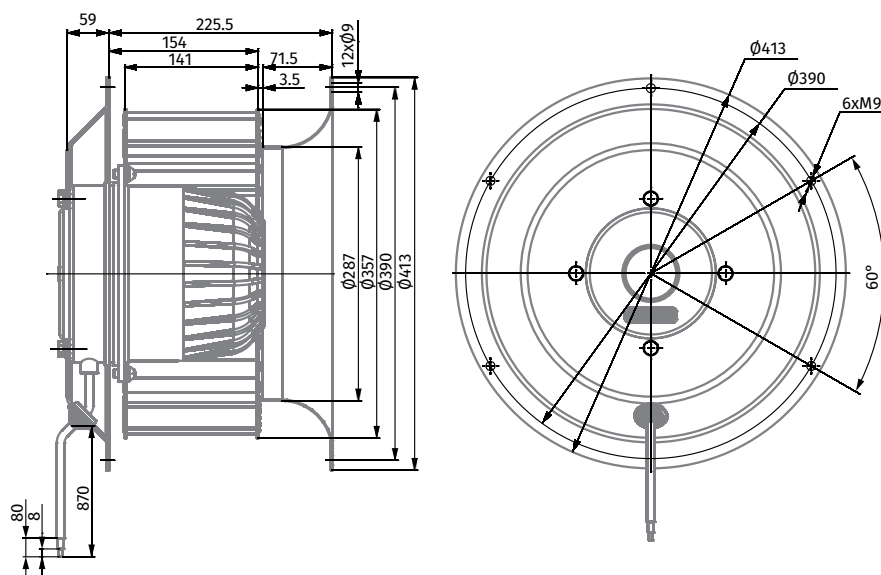


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F355A-4D-R01-01	I	230	50	1340	3500	10.2	75	-25 ... +55	-	B1
		400	50	1340	3500	5.9	75	-25 ... +55	-	B2



Overall Dimensions



Ø 355 MM, FORWARD CURVED

AC CENTRIFUGAL FAN



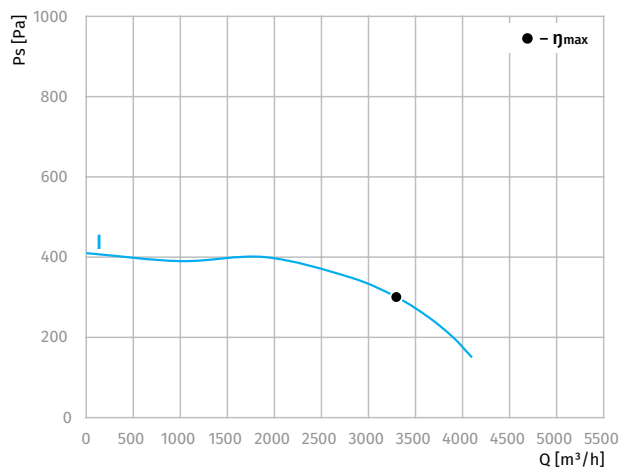
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

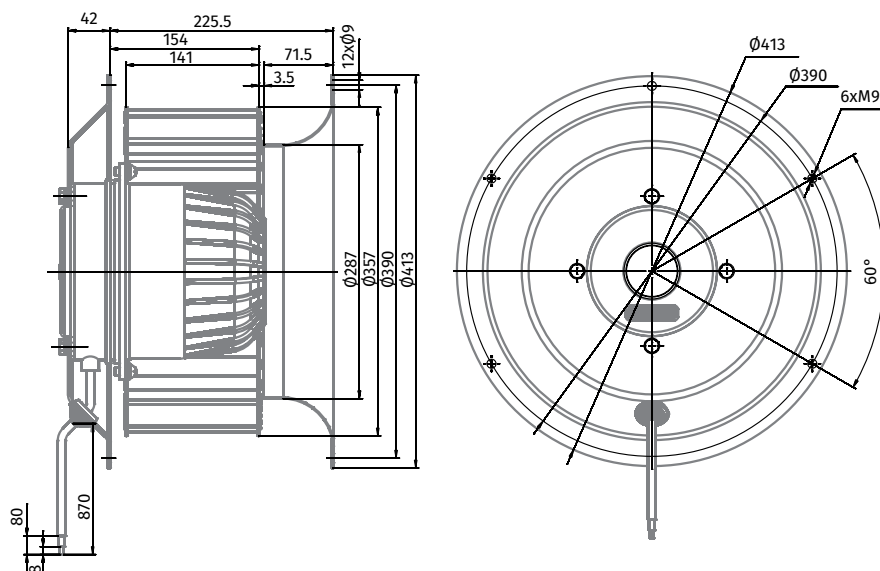


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F355A-6D-N01-01	I	230	50	900	1150	4.0	74	-25 ... +70	-	B1
		400	50	900	1150	2.3	74	-25 ... +70	-	B2



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 400 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



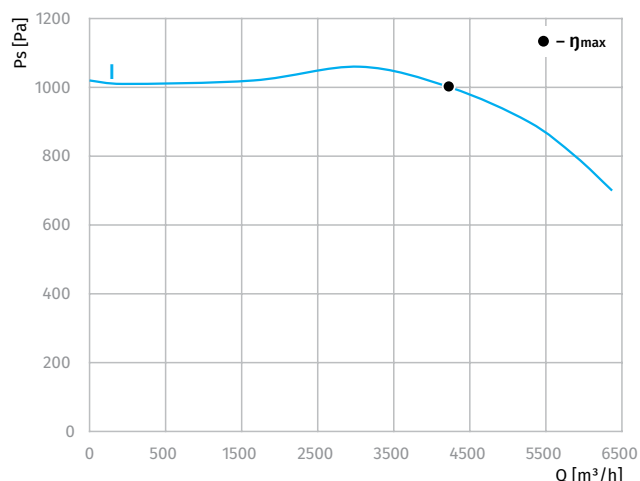
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

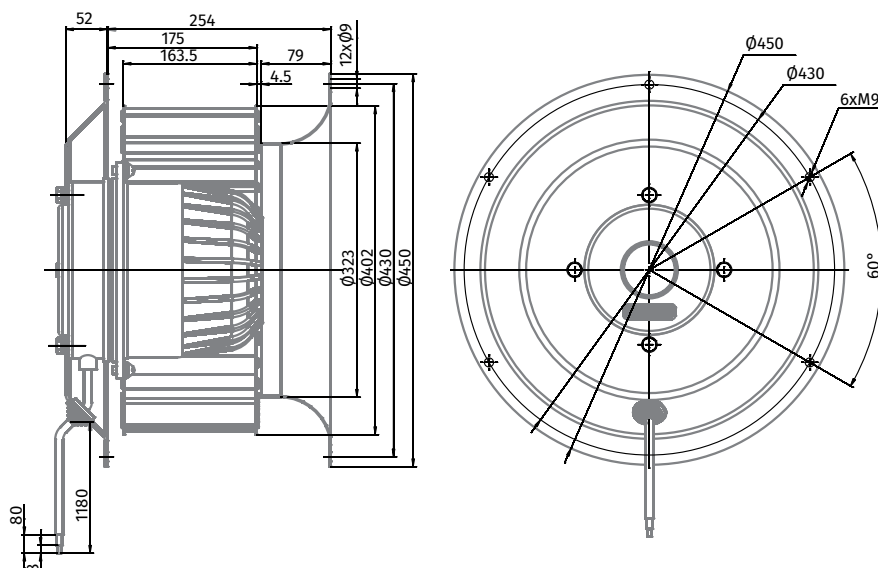


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F400A-4D-S01-01	I	230	50	1400	4800	13.9	86	-25 ... +45	-	B1
		400	50	1400	4800	8.0	86	-25 ... +45	-	B2



Overall Dimensions



Ø 400 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



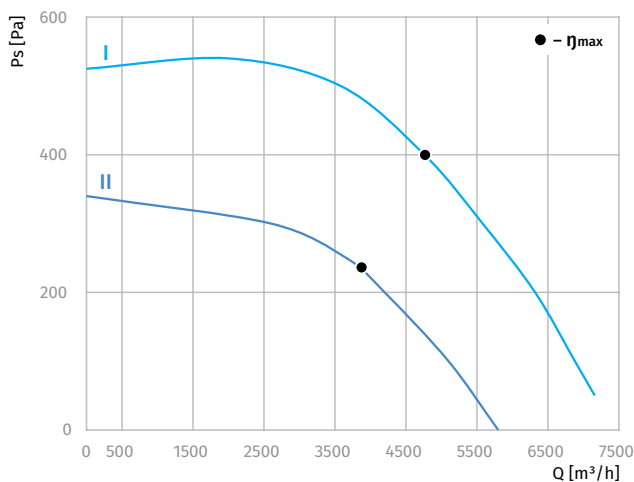
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

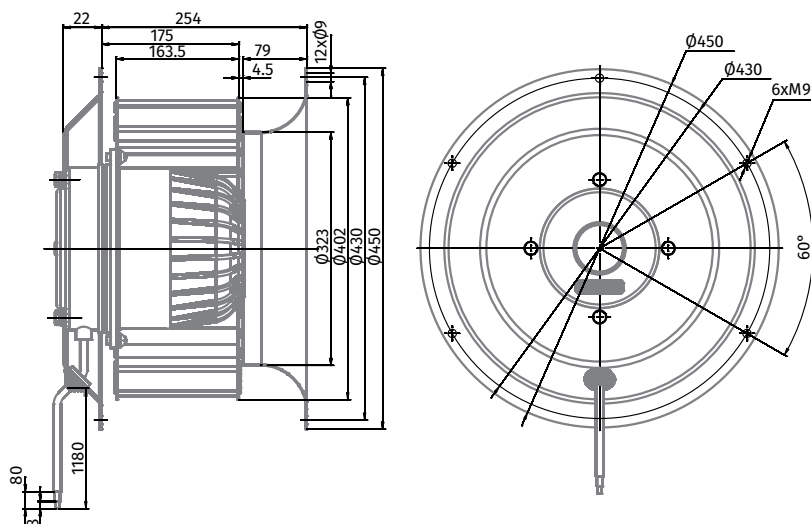


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F400A-6D-R01-01	I	230	50	870	2800	8.44	78	-25 ... +65	-	B1
		400	50	870	2800	4.85	78	-25 ... +65	-	B2
BL-F400A-8D-M01-01	II	230	50	700	1700	6.43	69	-25 ... +55	-	B1
		400	50	700	1700	3.70	69	-25 ... +55	-	B2



Overall Dimensions



Ø 450 mm, FORWARD CURVED

AC CENTRIFUGAL FAN



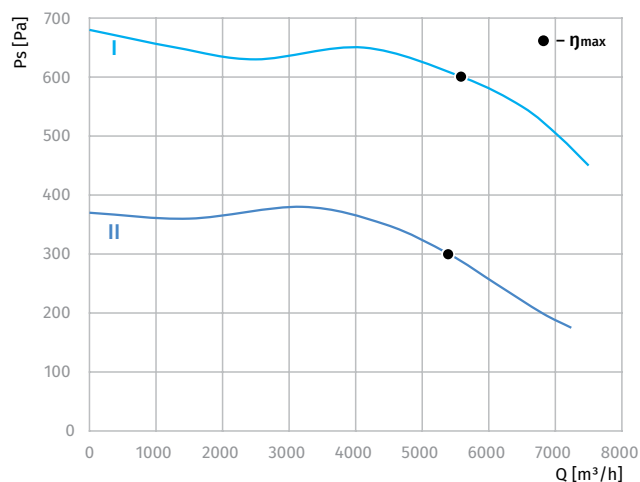
Features

- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP54
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

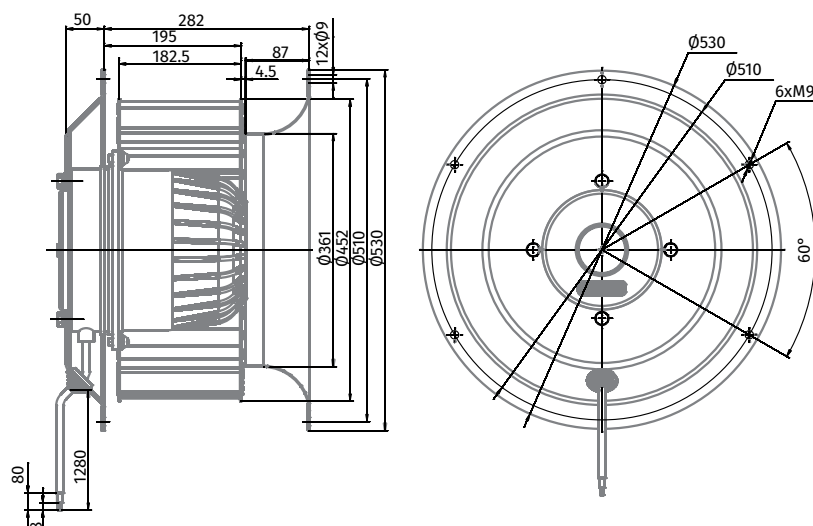


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F450A-6D-S01-01	I	230	50	930	3500	10.40	84	-25 ... +40	-	B1
		400	50	930	3500	6.00	84	-25 ... +40	-	B2
BL-F450A-8D-N01-01	II	230	50	680	2000	7.13	78	-25 ... +40	-	B1
		400	50	680	2000	4.10	78	-25 ... +40	-	B2



Overall Dimensions



FORWARD CURVED EC CENTRIFUGAL FANS

Ø 108 mm, FORWARD CURVED

EC CENTRIFUGAL FAN



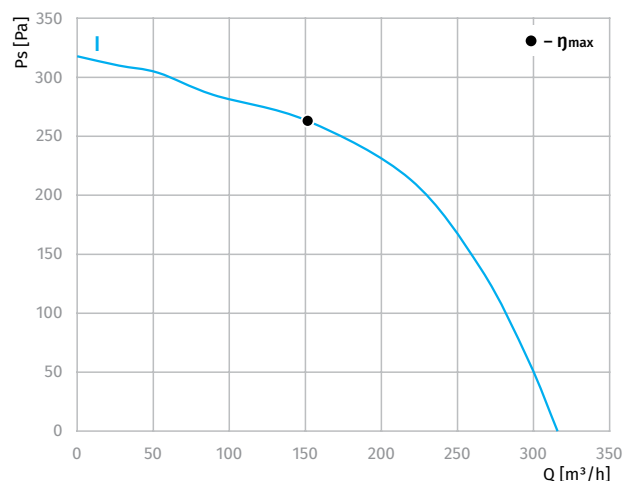
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

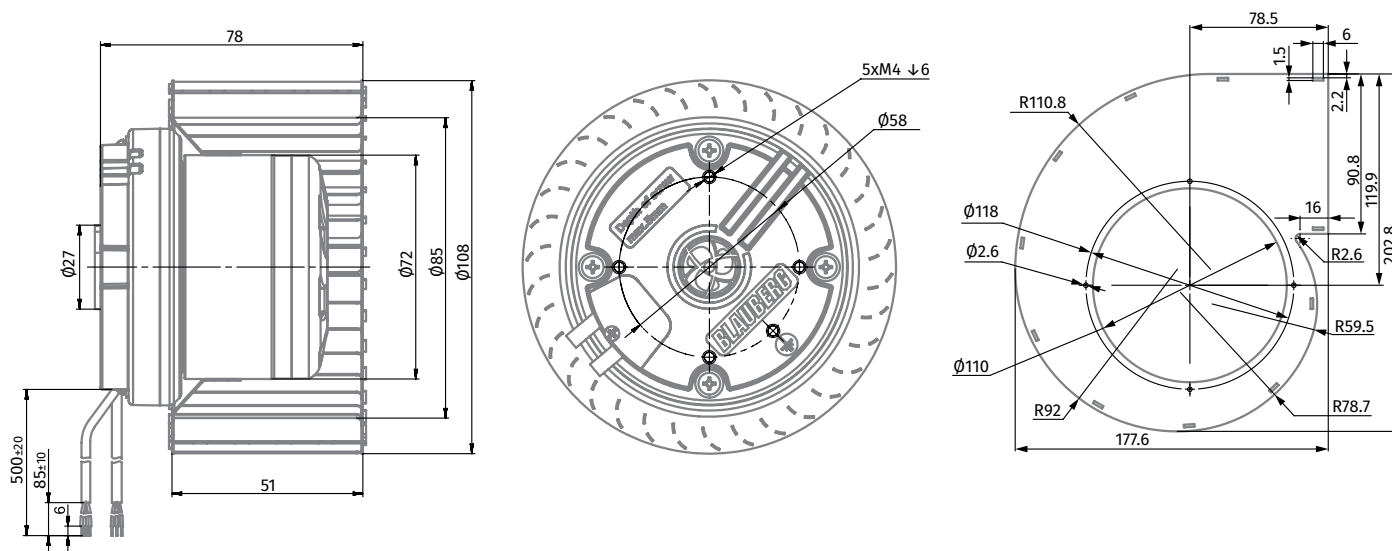


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F108A-EC-00	I	230	50/60	3340	82	0.65	67	-25 ... +60	-	E



Overall Dimensions



Ø 120 MM, FORWARD CURVED

EC CENTRIFUGAL FAN



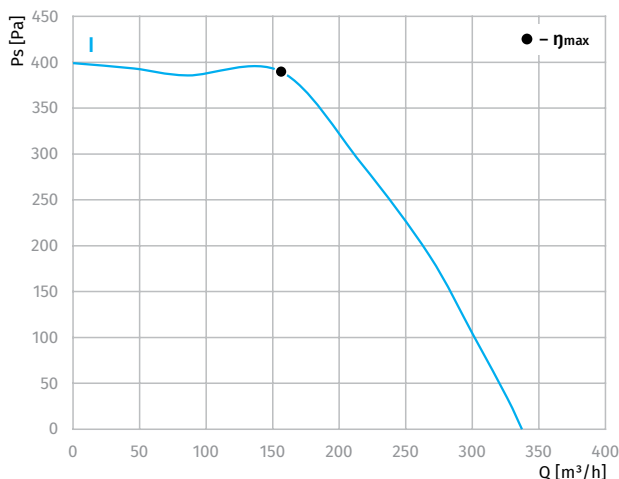
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

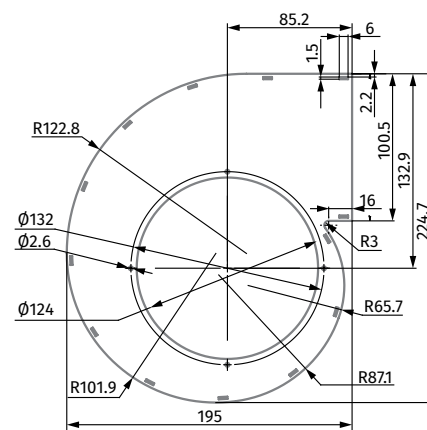
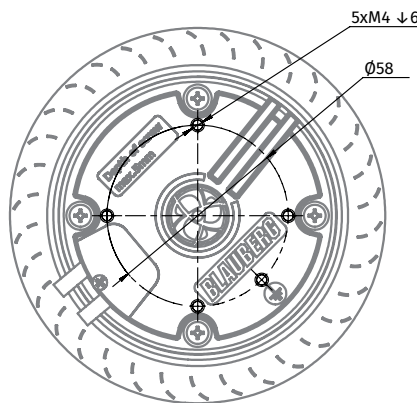
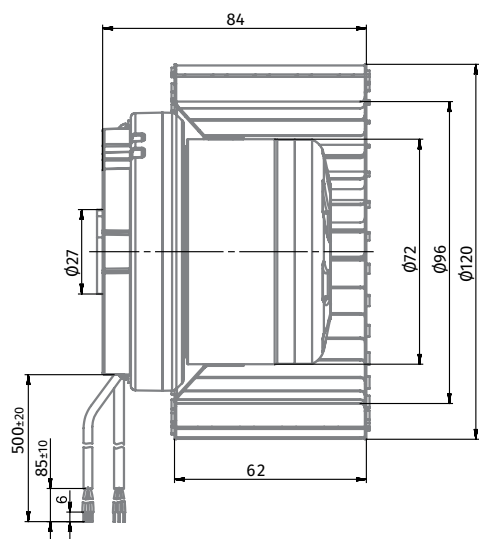


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F120B-EC-00	I	230	50/60	3230	90	0.67	67	-25 ... +60	-	E



Overall Dimensions



Ø 133 MM, FORWARD CURVED

EC CENTRIFUGAL FAN



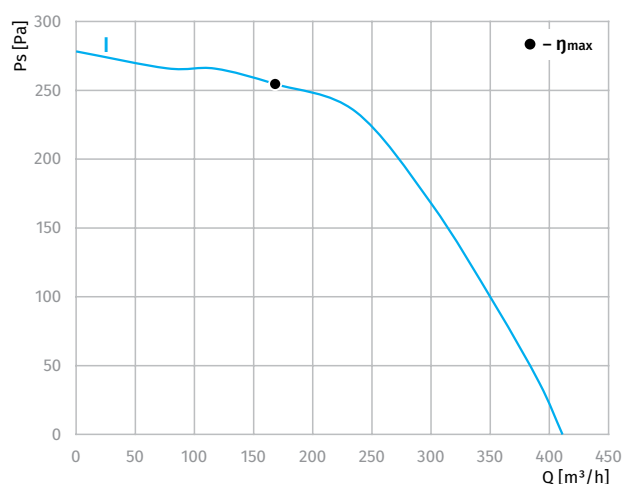
Features

- o **Speed Control:** 0 ~ 10V DC/PWM
- o **Impeller material:** galvanized steel
- o **Direction of rotation:** clockwise, seen on rotor
- o **Type of protection:** IP55
- o **Insulation class:** B
- o **Mode of operation:** continuous operation (S1)
- o **Bearing:** ball bearings
- o **Motor protection:** self-resetting TOP wired internally

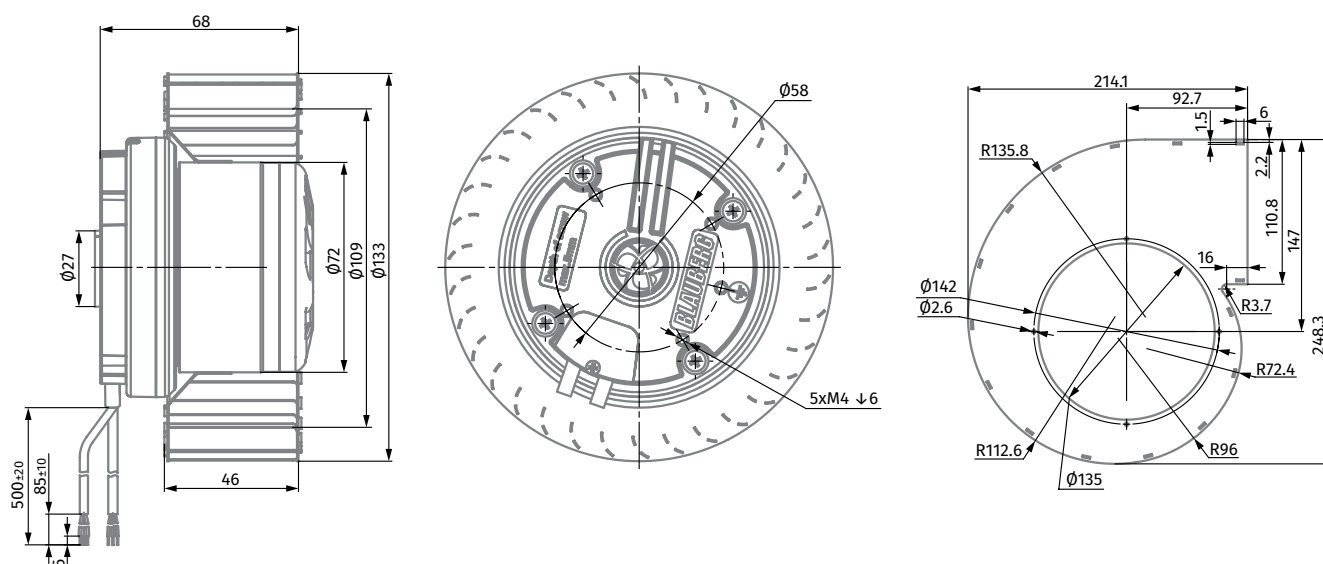


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F133A-EC-00	I	230	50/60	2290	85	0.67	63	-25 ... +60	-	E



Overall Dimensions



Ø 140 MM, FORWARD CURVED

EC CENTRIFUGAL FAN



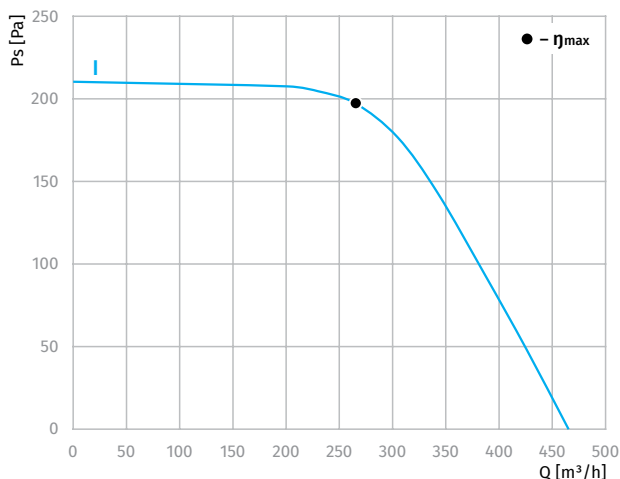
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

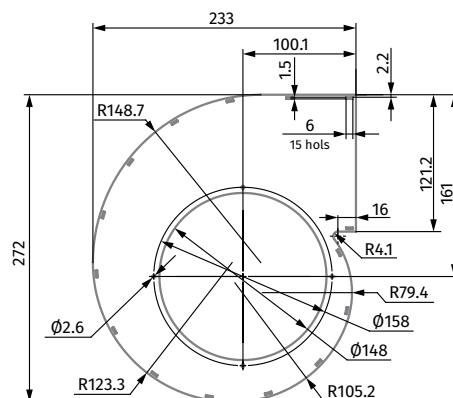
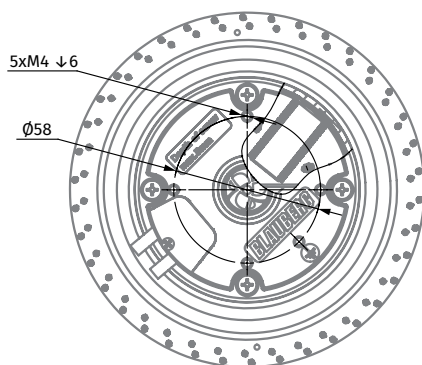
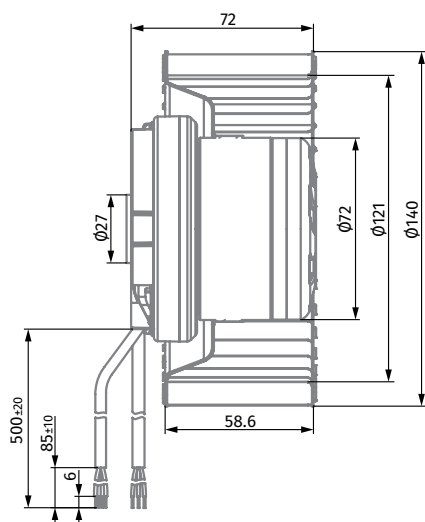


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F140B-EC-02	I	230	50/60	1910	70	0.58	72	-25 ... +60	-	E



Overall Dimensions



Ø 160 mm, FORWARD CURVED

EC CENTRIFUGAL FAN



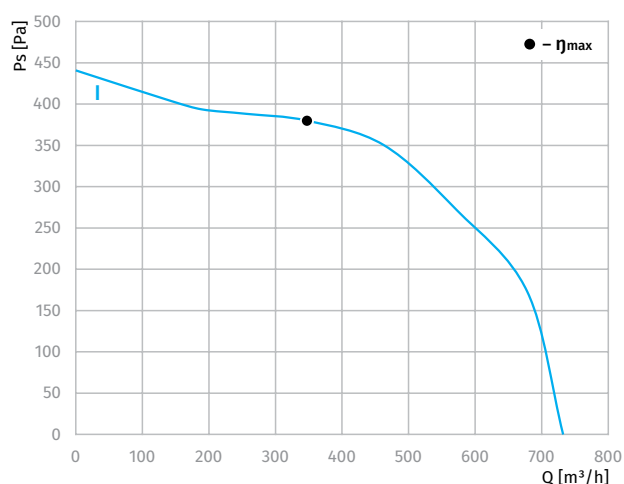
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

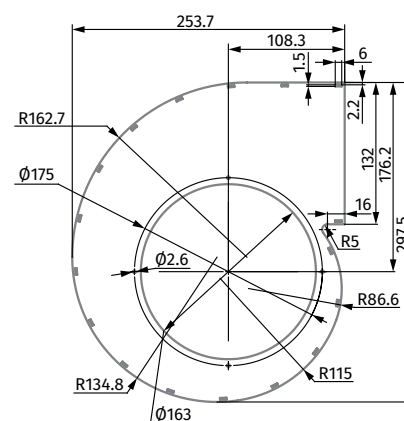
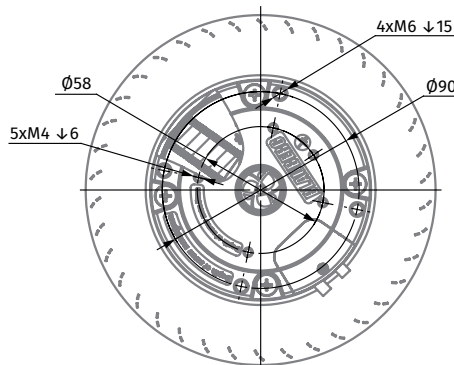
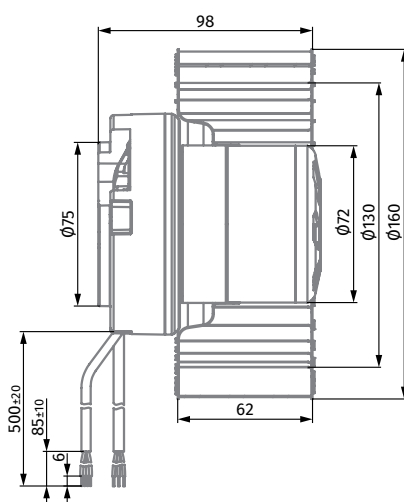


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F160C-EC-00	I	230	50/60	2320	183	1.24	70	-25 ... +60	-	E



Overall Dimensions



Ø 180 MM, FORWARD CURVED

EC CENTRIFUGAL FAN



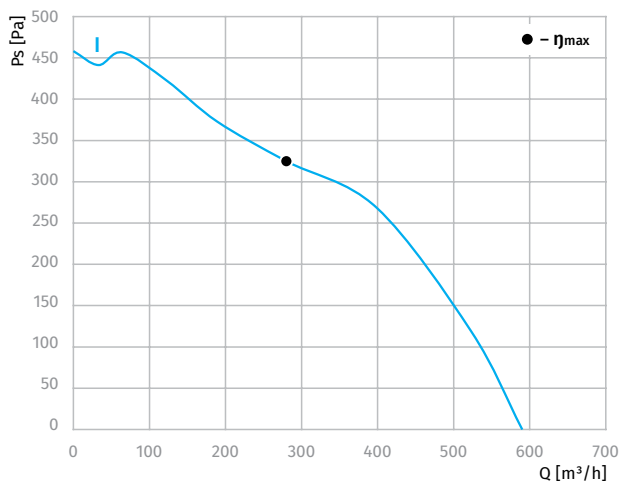
Features

- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

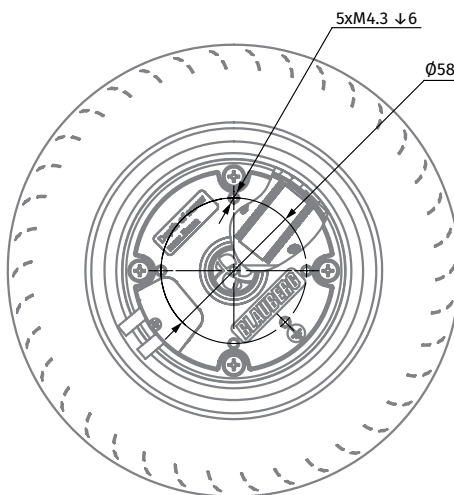
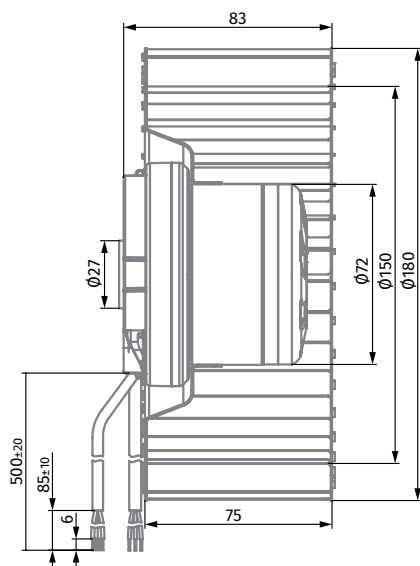


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
BL-F180C-EC-00	I	230	50/60	1820	100	0.75	70	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

AC BLOWERS

Ø 120 mm, SINGLE INLET

AC BLOWER



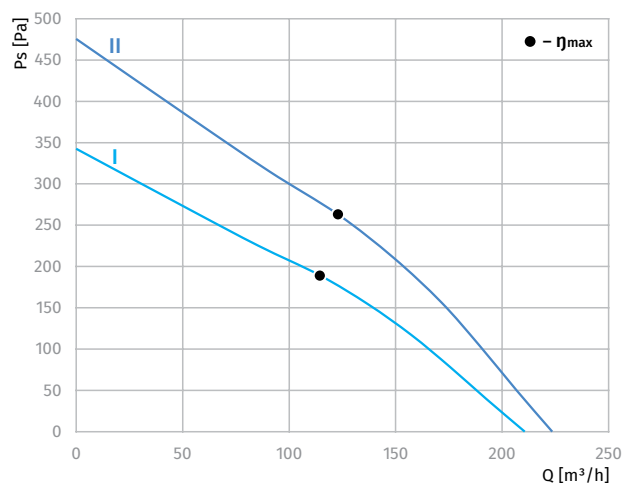
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

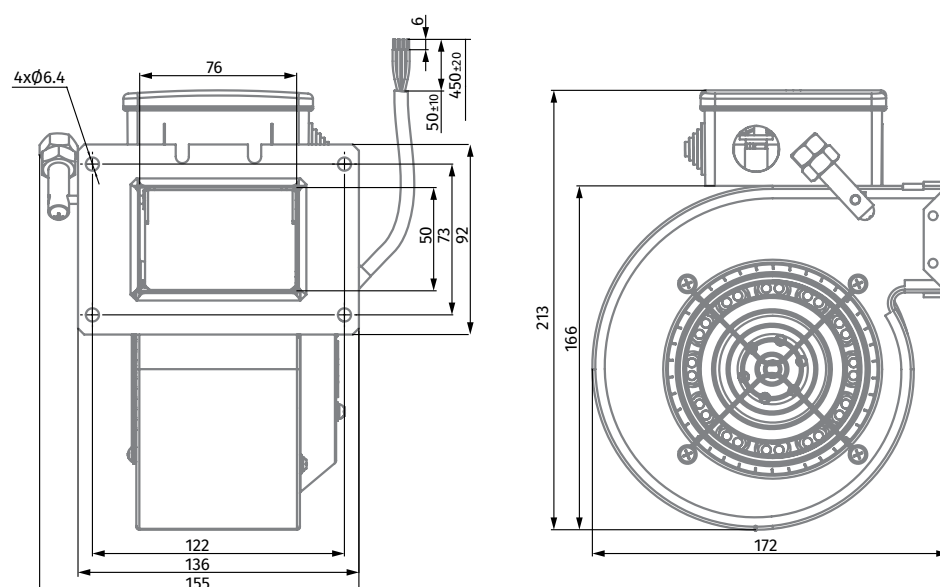


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F120A-2E-A01-01	I	230	50	2490	61	0.26	60	-25 ... +50	1.5/450	A
	II	230	60	2950	78	0.34	63	-25 ... +50	1.5/450	A



Overall Dimensions



Ø 120 MM, SINGLE INLET

AC BLOWER



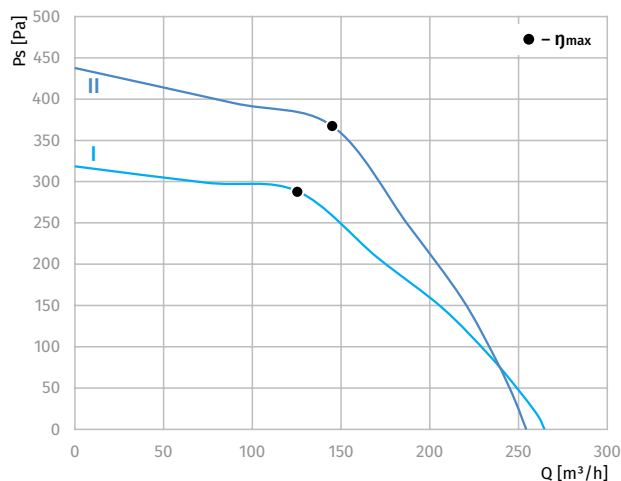
Features

- Materials Impeller: galvanized steel
- Materials Housing: Die-cast aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

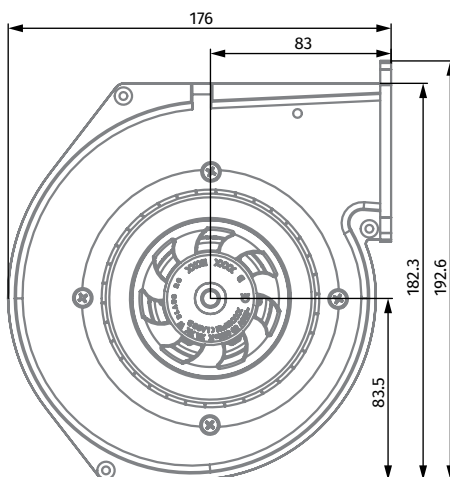
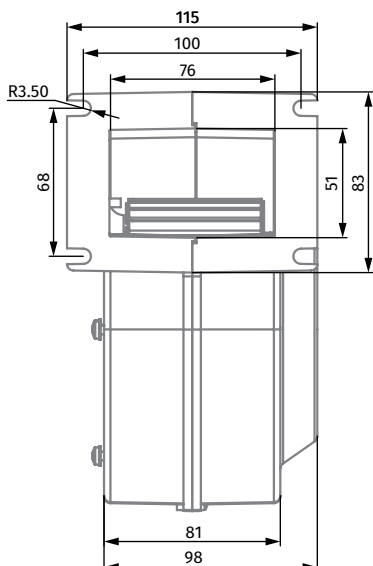


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F120A-2E-A01-11	I	230	50	2720	72	0.31	60	-25 ... +50	1.5/450	A
	II	230	60	3070	88	0.38	62	-25 ... +50	1.5/450	A



Overall Dimensions



Ø 140 mm, SINGLE INLET

AC BLOWER



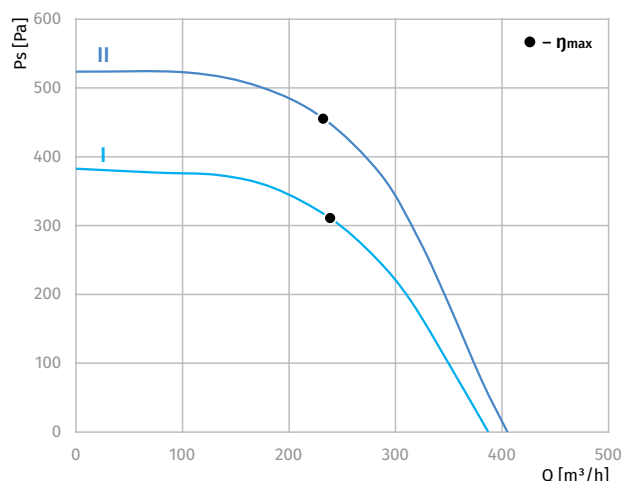
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

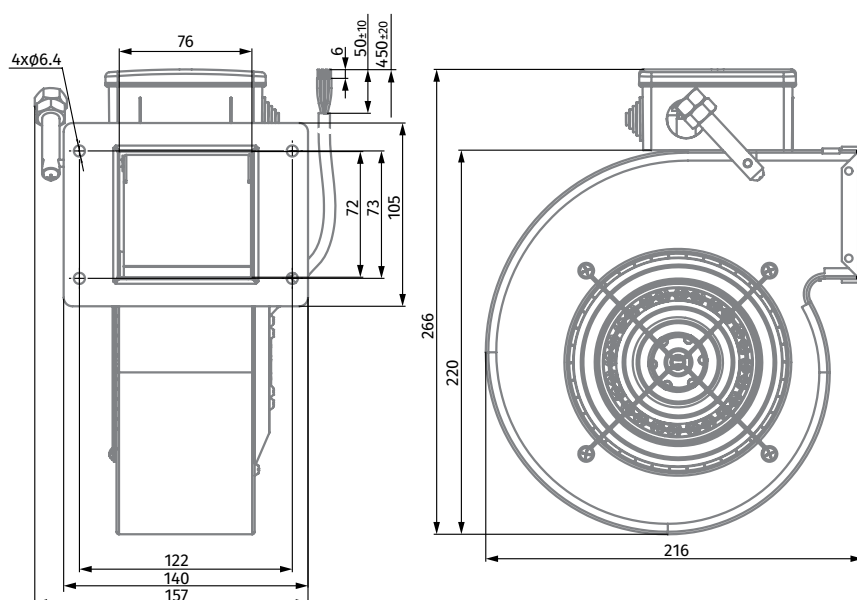


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F140A-2E-C01-01	I	230	50	2720	134	0.58	71	-25 ... +50	3.5/450	A
	II	230	60	3190	180	0.79	72	-25 ... +50	3.5/450	A



Overall Dimensions



Ø 140 mm, SINGLE INLET

AC BLOWER



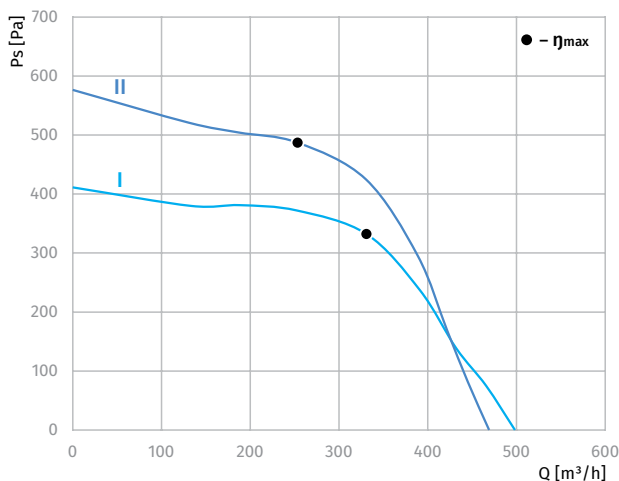
Features

- Materials Impeller: galvanized steel
- Materials Housing: Die-cast aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

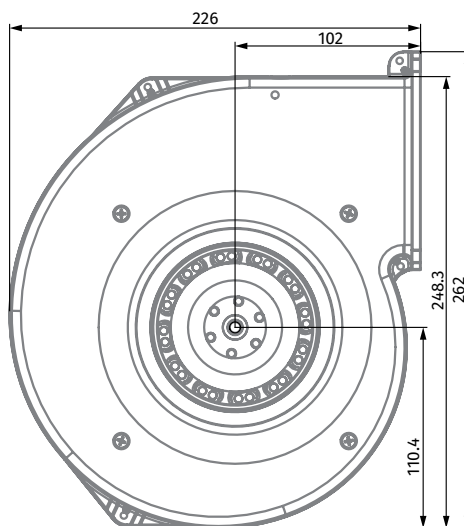
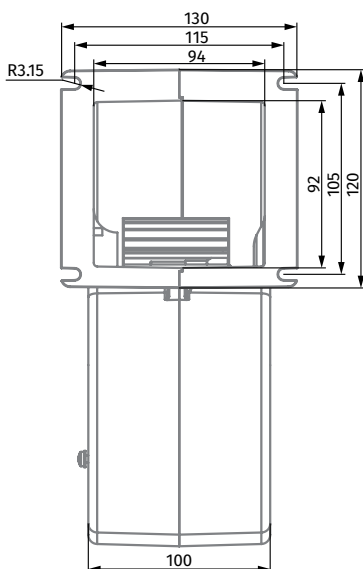


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F140A-2E-C01-11	I	230	50	2650	157	0.68	70	-25 ... +50	3.5/450	A
	II	230	60	3110	200	0.87	71	-25 ... +50	3.5/450	A



Overall Dimensions



Ø 140 MM, SINGLE INLET

AC BLOWER



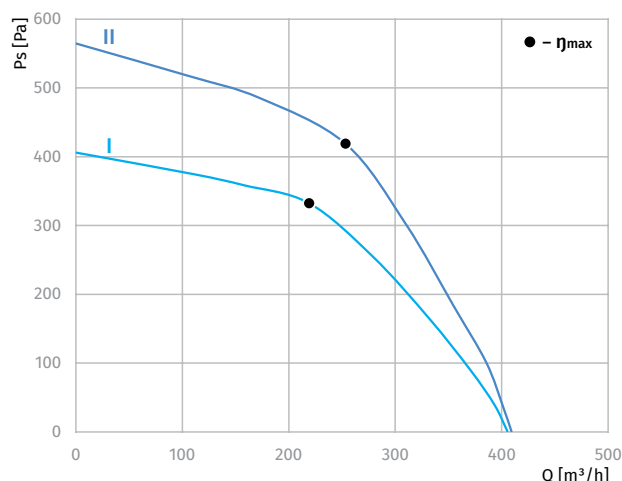
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

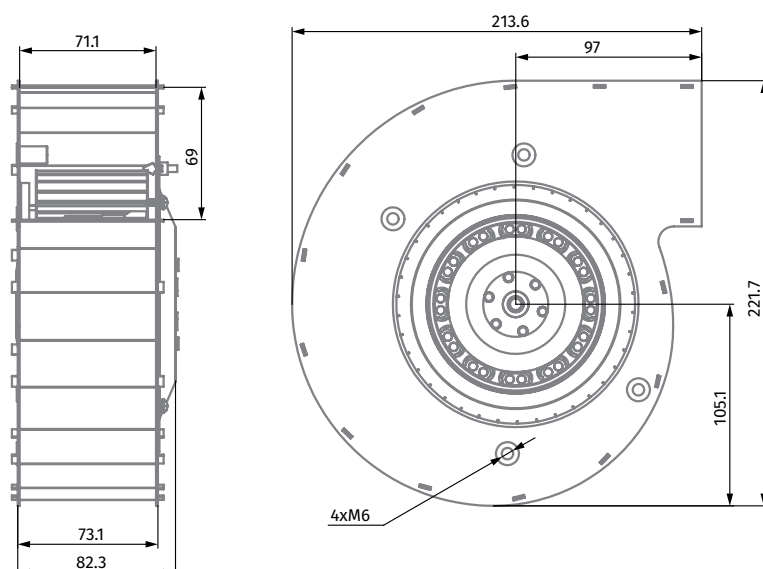


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F140A-2E-C01-21	I	230	50	2770	133	0.58	71	-25 ... +50	3.5/450	A
	II	230	60	3220	181	0.79	72	-25 ... +50	3.5/450	A



Overall Dimensions



Ø 140 MM, SINGLE INLET

AC BLOWER



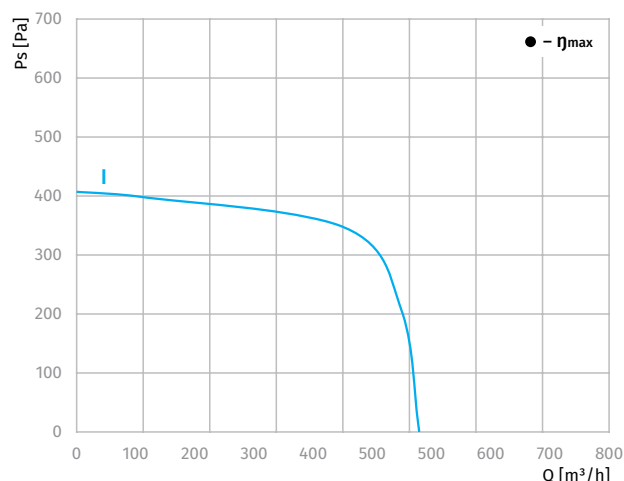
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

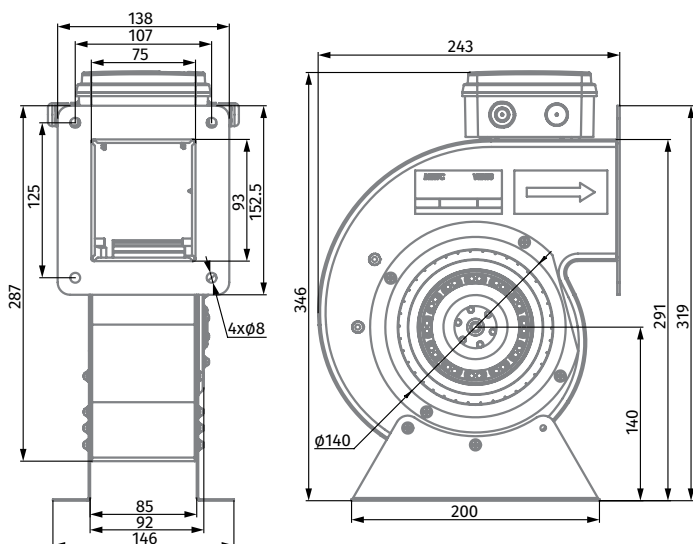


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
Helix 140x60 2E	I	230	50	2820	140	0.64	68	-25 ... +45	-	A



Overall Dimensions



Accessories

Model	Rubber vibration absorbing dampers	Spring-loaded vibration absorbing dampers	Flange	Grille
Helix 140x60 2E	SI-G 8	SI-F 8	FRZ-H 140	SG-H 140

Ø 160 mm, SINGLE INLET

AC BLOWER



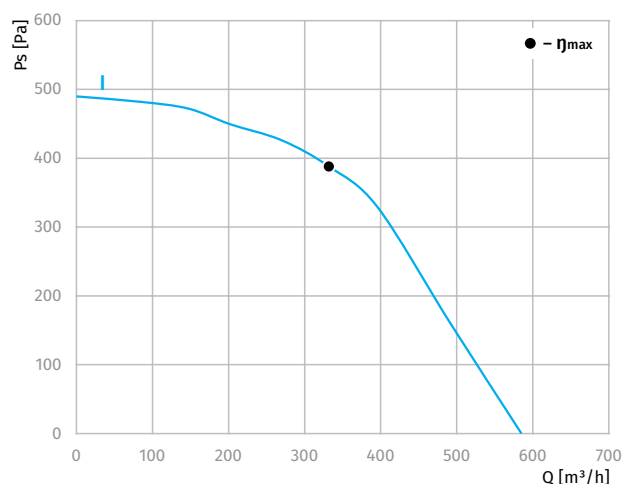
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

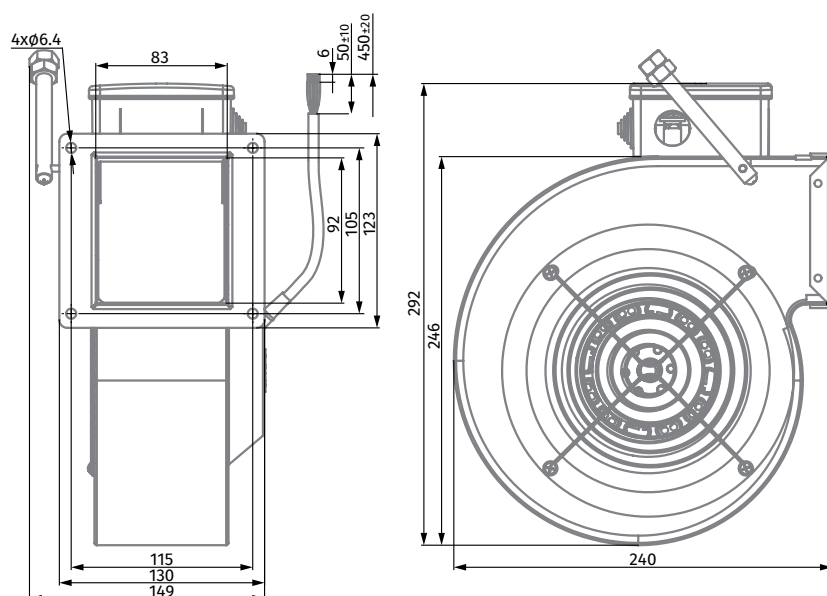


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F160A-4E-B01-01	I	230	50	2750	276	1.22	71	-25 ... +50	1.5/450	A



Overall Dimensions



Ø 160 MM, SINGLE INLET

AC BLOWER



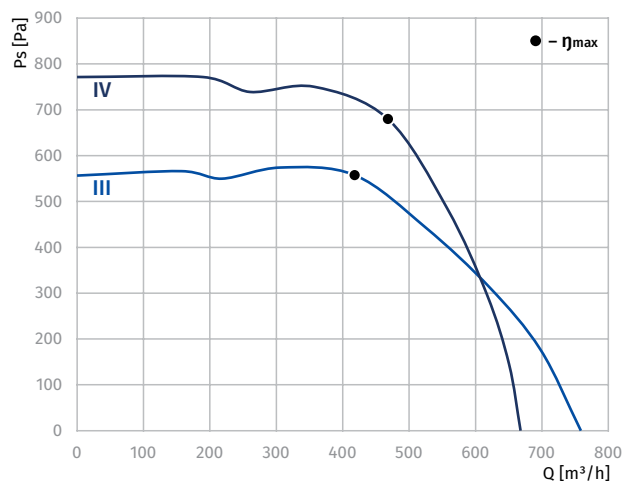
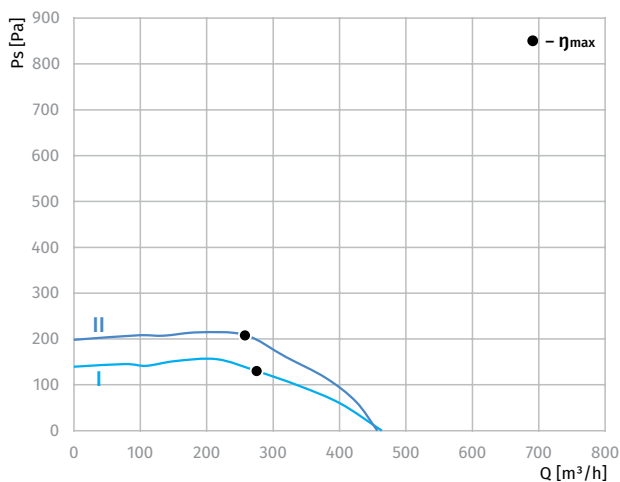
Features

- Materials Impeller: galvanized steel
- Materials Housing: Die-cast aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

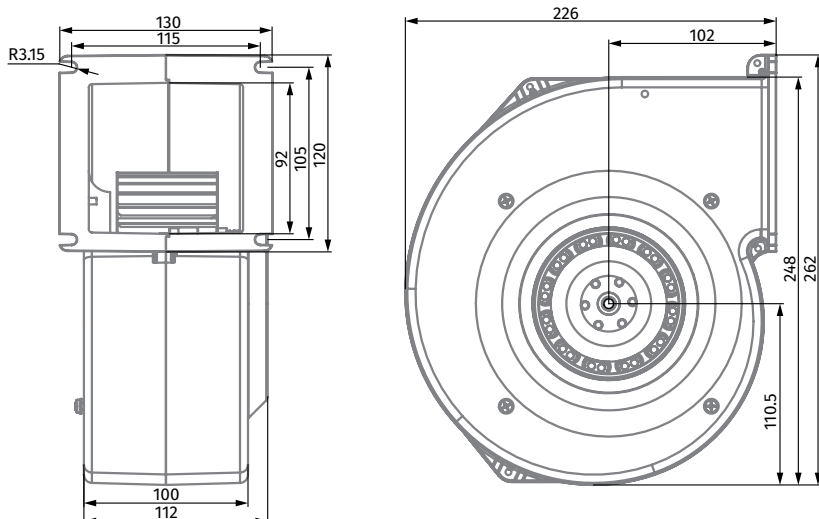


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F160A-4E-B01-11	I	230	50	1340	73	0.33	66	-25 ... +50	1.5/450	A
	II	230	60	1600	85	0.37	68	-25 ... +50	1.5/450	A
SL-F160A-2E-D01-11	III	230	50	2660	353	1.55	71	-25 ... +50	6.0/450	A
	IV	230	60	2950	399	1.75	73	-25 ... +50	6.0/450	A



Overall Dimensions



Ø 160 mm, SINGLE INLET

AC BLOWER



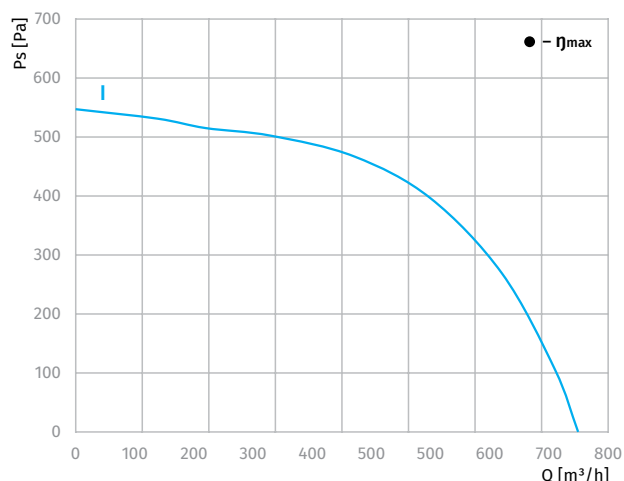
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

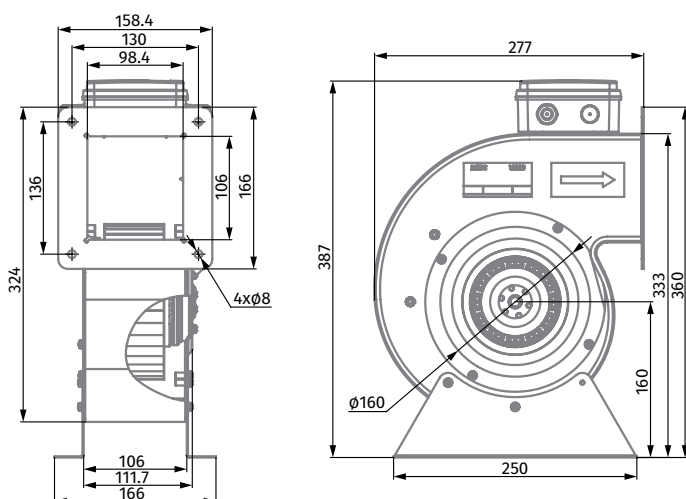


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
Helix 160x62 2E	I	230	50	2630	320	1.48	70	-25 ... +50	-	A



Overall Dimensions



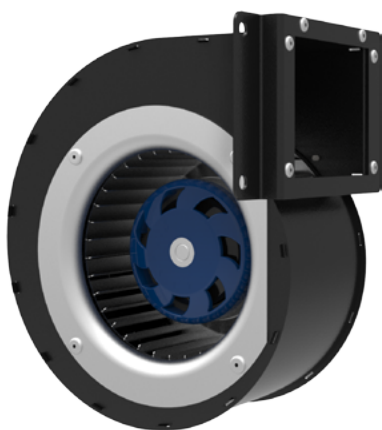
Accessories

Model	Rubber vibration absorbing dampers	Spring-loaded vibration absorbing dampers	Flange	Grille
Helix 160x62 2E	SI-G 8	SI-F 8	FRZ-H 160	SG-H 160

EC BLOWERS

Ø 120 mm, SINGLE INLET

EC BLOWER



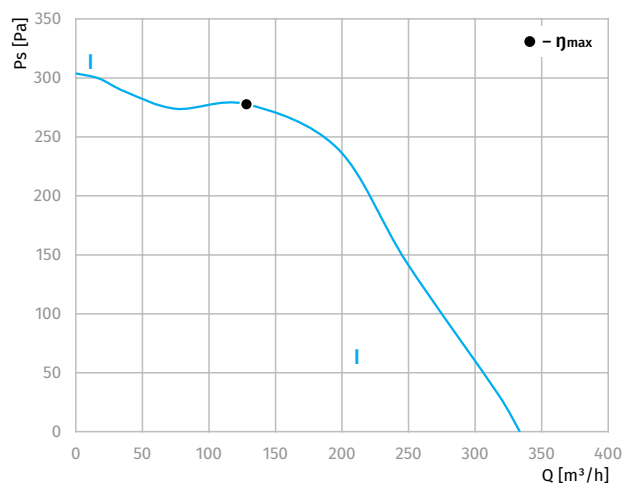
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

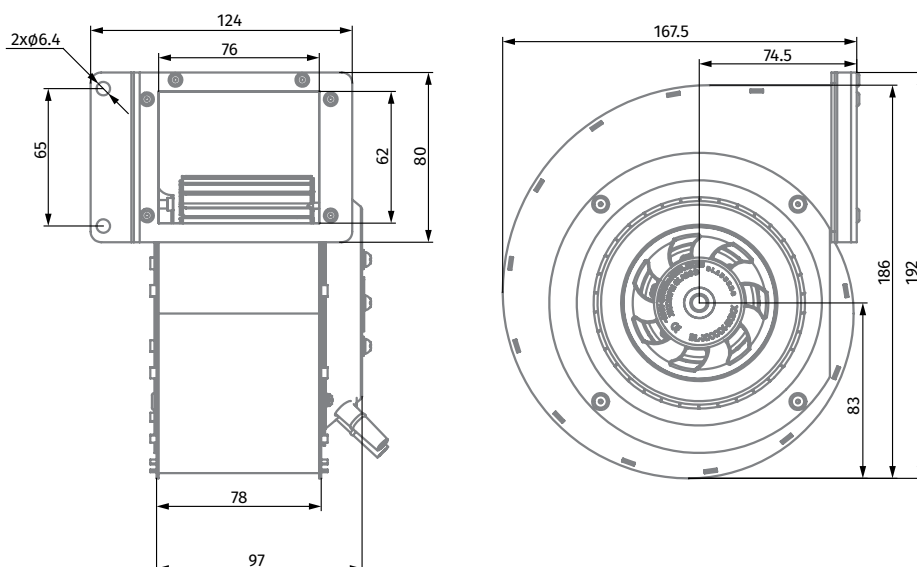


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F120B-EC-00	I	230	50/60	2770	65	0.53	67	-25 ... +60	-	E



Overall Dimensions



Ø 120 MM, SINGLE INLET

EC BLOWER



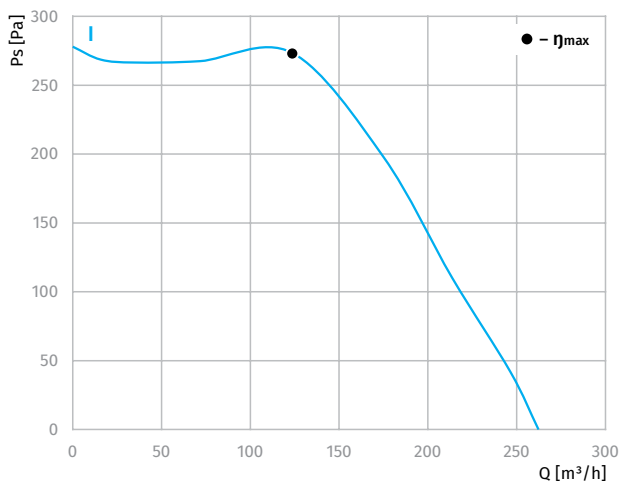
Features

- Materials Impeller: galvanized steel
- Materials Housing: Die-cast aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

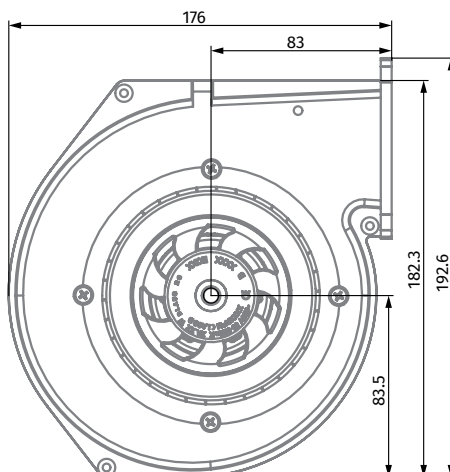
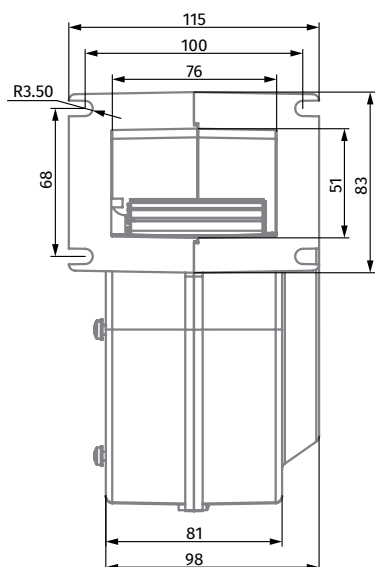


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F120B-EC-10	I	230	50/60	2800	51	0.43	67	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 140 mm, SINGLE INLET

EC BLOWER



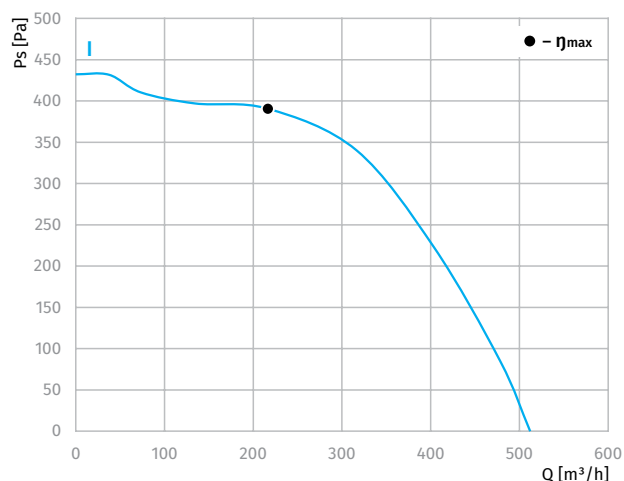
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

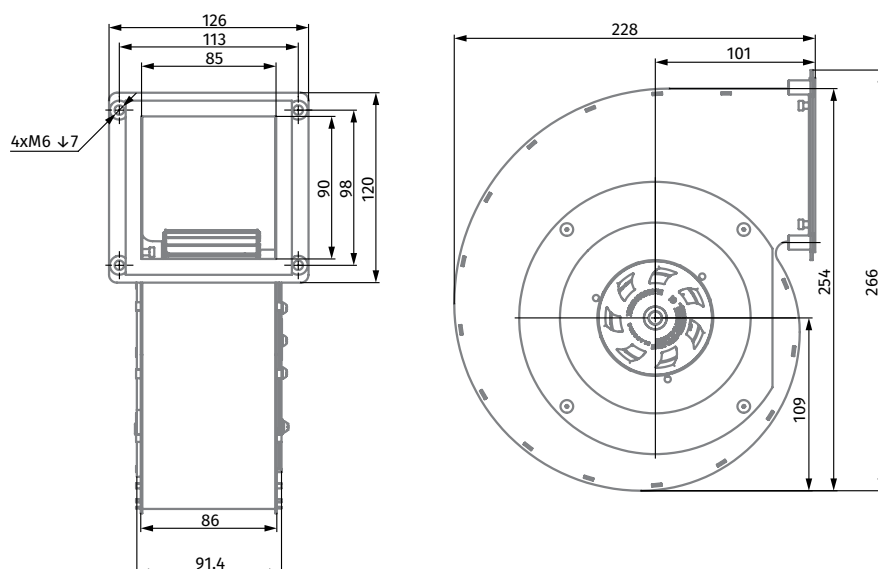


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F140B-EC-00	I	230	50/60	2580	122	0.96	72	-25 ... +60	-	E



Overall Dimensions



Ø 140 MM, SINGLE INLET

EC BLOWER



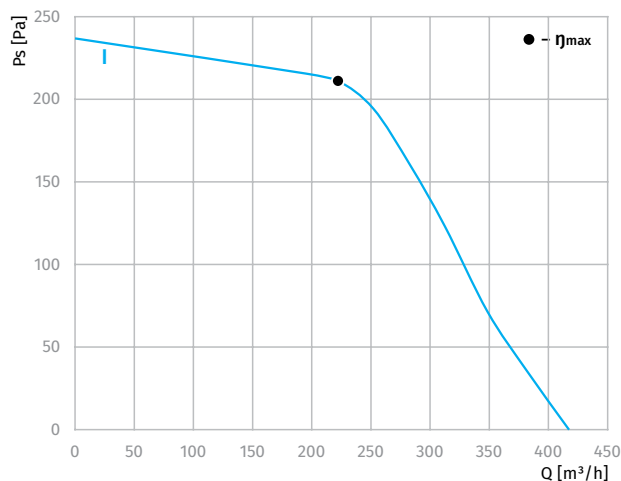
Features

- Materials Impeller: galvanized steel
- Materials Housing: Die-cast aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

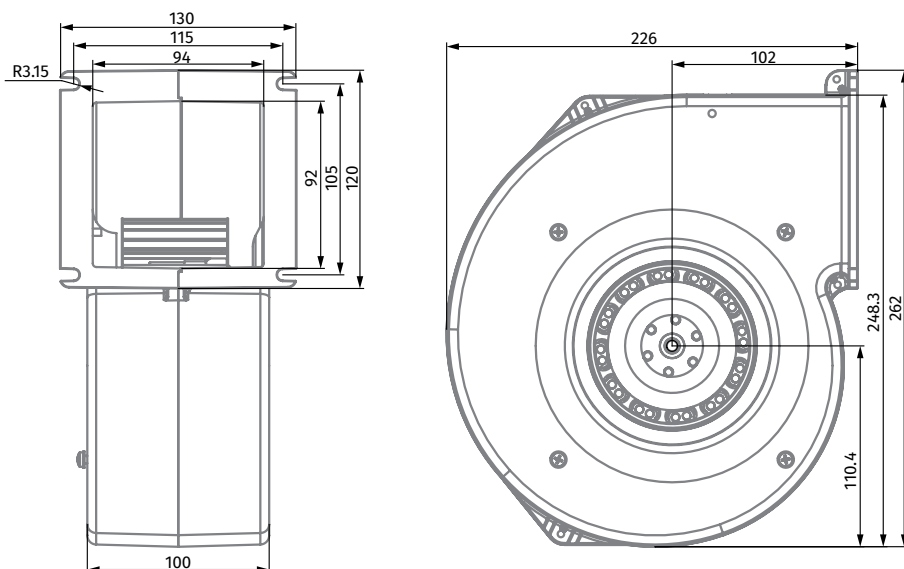


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F140B-EC-12	I	230	50/60	1940	64	0.54	65	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
AC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 160 mm, SINGLE INLET

EC BLOWER



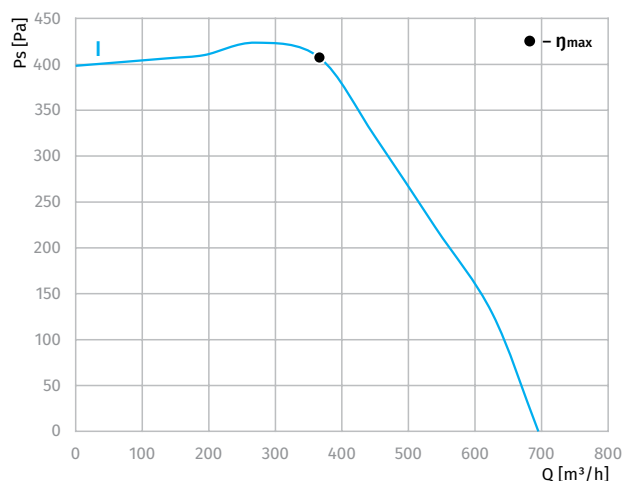
Features

- Materials Impeller: galvanized steel
- Materials Housing: Die-cast aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

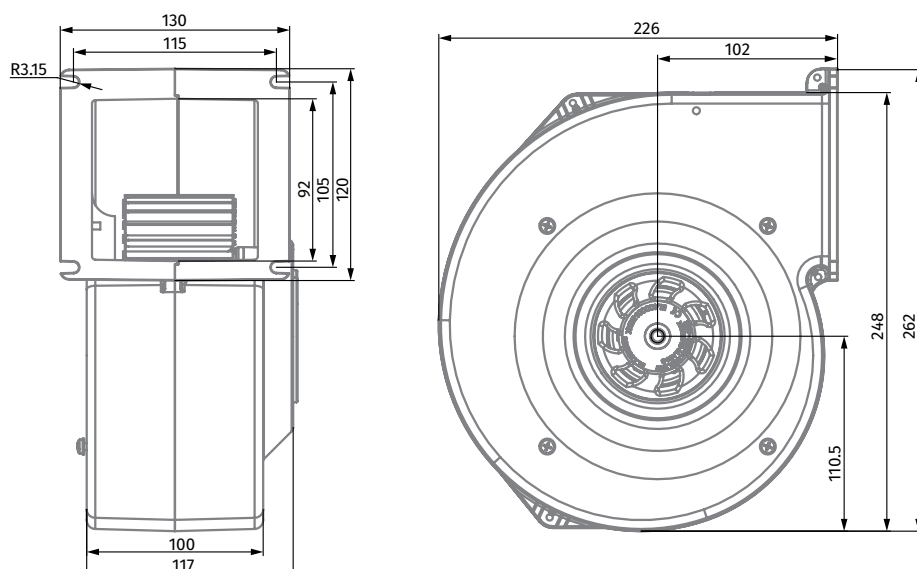


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
SL-F160C-EC-10	I	230	50/60	2380	177	1.31	68	-25 ... +60	-	E

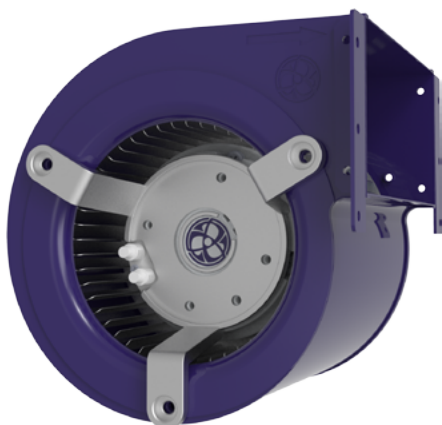


Overall Dimensions



Ø 120 mm, DUAL INLET

EC BLOWER



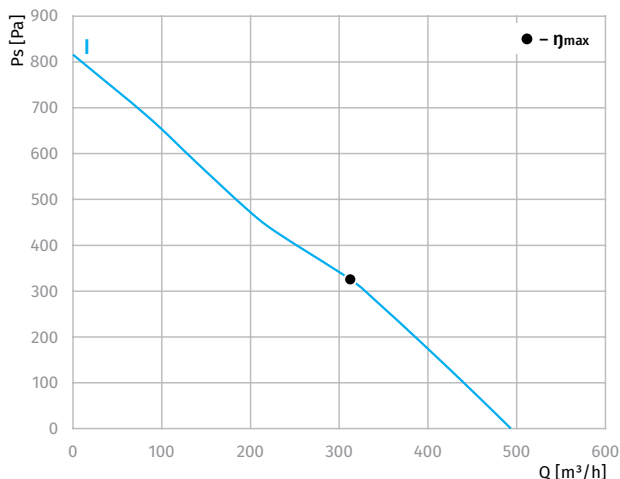
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

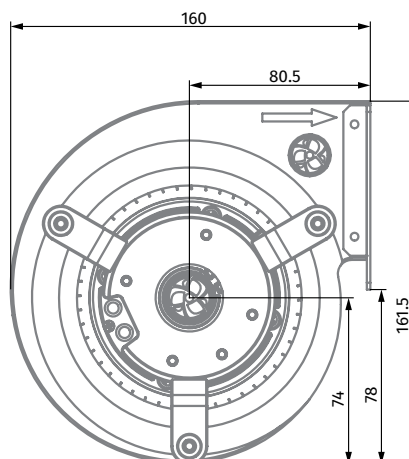
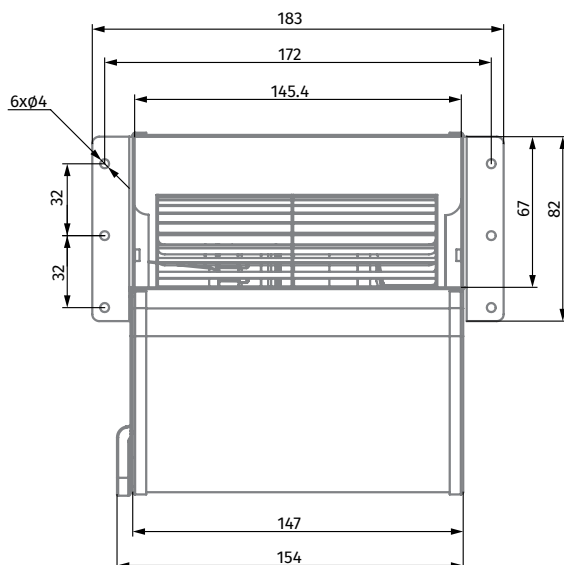


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
DL-F120C-EC-00	I	230	50/60	3020	85	0.61	66	-25 ... +60	-	E



Overall Dimmensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

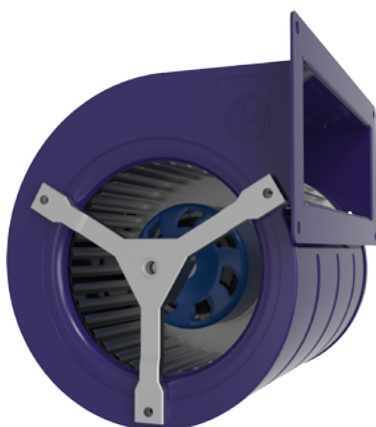
AC BLOWERS

EC BLOWERS

AC MOTORS

Ø 133 MM, DUAL INLET

EC BLOWER



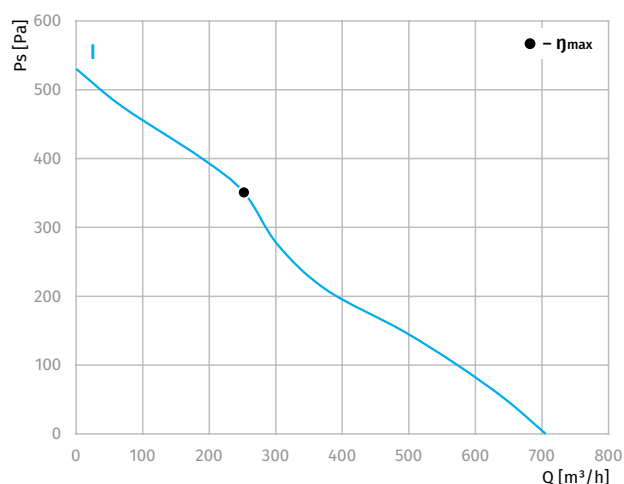
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

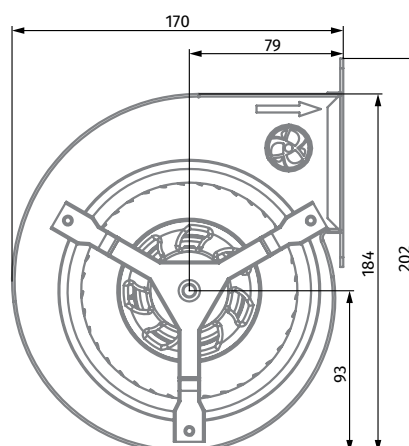
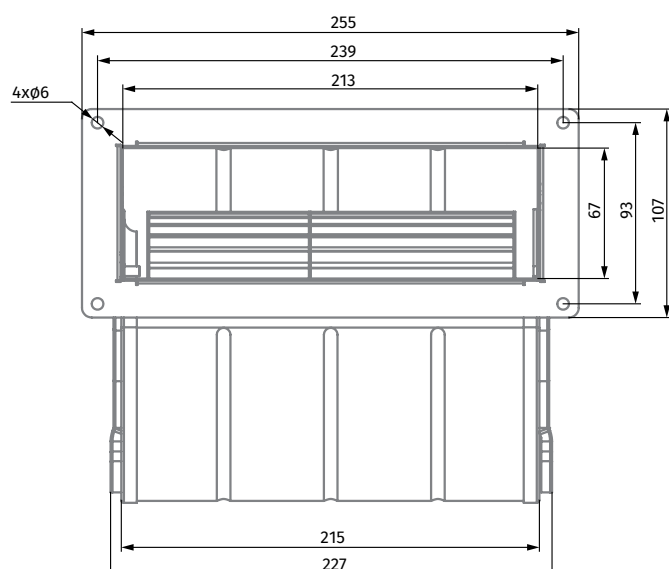


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
DL-F133B-EC-00	I	230	50/60	2740	76	0.55	67	-25 ... +60	-	E



Overall Dimensions



Ø 146 mm, DUAL INLET

EC BLOWER



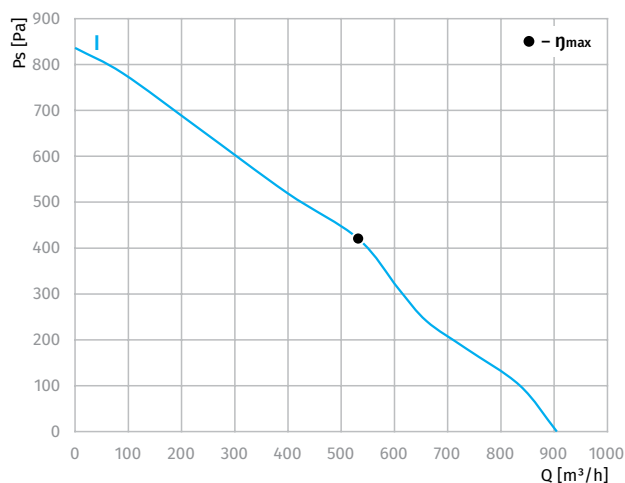
Features

- Materials Impeller: galvanized steel
- Materials Housing: sheet steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP55
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

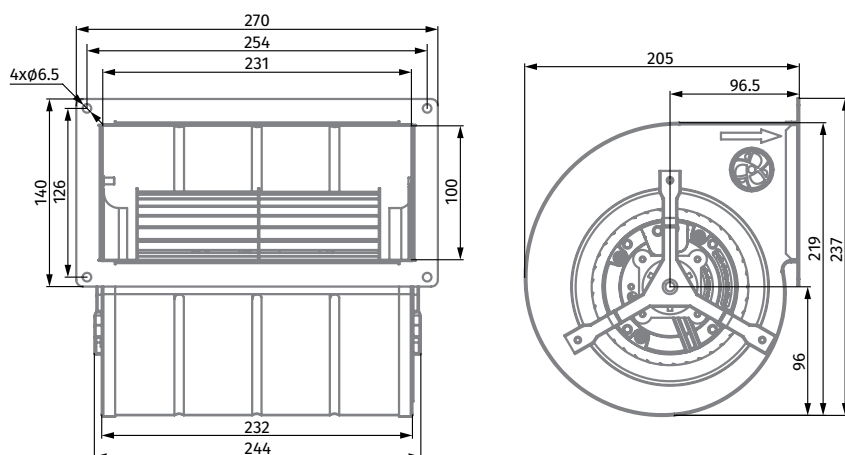


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor [µF/VDB]	Electrical connection
DL-F146B-EC-00	I	230	50/60	2620	168	1.17	68	-25 ... +60	-	E



Overall Dimensions



AC AXIAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

BACKWARD CURVED
EC CENTRIFUGAL FANS

FORWARD CURVED
AC CENTRIFUGAL FANS

FORWARD CURVED
EC CENTRIFUGAL FANS

AC BLOWERS

EC BLOWERS

AC MOTORS

AC MOTORS

Ø 92 MM, EXTERNAL ROTOR

AC MOTOR



Features

- Direction of rotation: upper request
- Type of protection: IP44
- Insulation class: B, F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

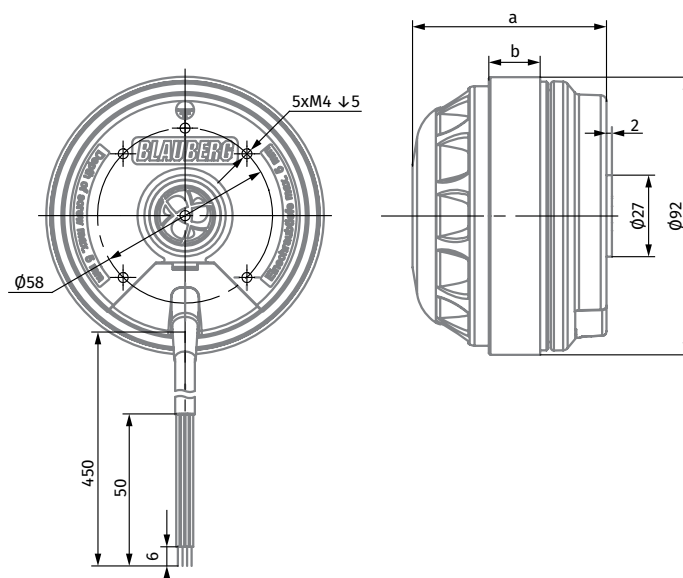


Technical data

Type	Nominal voltage [VAC]	Frequency [Hz]	Rated torque [Ncm]	Max torque [Ncm]	Speed [RPM]	Power input Rated [W]	Current Rated [A]	Power input max [W]	Current max [A]	Perm. amb. temperature [°C]	Capa citor, [µF/VDB]	Electrical connection
MA2E-9217A-A01-01	230	50	13.20	18	2300	70	0.31	100	0.44	-25...+40	1.5	A
		60	13.80	16.70	2700	77	0.34	100	0.44	-25...+40	1.5	A
MA2E-9217A-A02-01	230	50	16.60	19.50	2150	94	0.42	122	0.53	-25...+40	2	A
		60	18.10	20.80	2600	100	0.44	128	0.56	-25...+40	2	A
MA2E-9225A-A01-01	230	50	19	26.50	2450	94	0.44	157	0.70	-25...+40	2	A
		60	22.40	24.90	2700	110	0.48	155	0.7	-25...+40	2	A
MA2E-9235A-A01-01	230	50	32.10	22.10	2450	136	0.6	221	0.97	-25...+40	3.5	A
		60	25.30	49.20	3000	150	0.65	218	0.96	-25...+40	3.5	A
MA2E-9235A-A02-01	230	50	30.80	39.80	2450	135	0.60	219	0.96	-25...+40	4	A
		60	29.50	41.30	3000	165	0.72	225	0.97	-25...+40	4	A
MA2E-9235A-A03-01	230	50	34	38.10	2350	160	0.7	233	1.00	-25...+40	3	A
		60	35	36.50	2400	190	0.85	230	1.00	-25...+40	3	A
MA2E-9242A-A01-01	230	50	38	47.20	2500	170	0.75	286	1.27	-25...+40	4	A
		60	32	42.80	2600	230	1.10	282	1.25	-25...+40	4	A
MA2E-9242A-A02-01	230	50	56.30	67	2400	255	1.20	478	1.70	-25...+40	6	A
		60	53.10	65	2380	190	0.83	290	1.25	-25...+40	6	A
MA2E-9242A-A03-01	230	50	49	64	3100	240	1.06	320	1.40	-25...+40	6	A
		60	123	147.70	1366	35	0.17	51	0.23	-25...+40	0.8	A
MA4E-9217A-A01-01	230	50	120	148	1435	35	0.165	52	0.23	-25...+40	0.8	A
		60	280	310	1300	55	0.24	97	0.42	-25...+40	1.5	A
MA4E-9225A-A01-01	230	50	278	302	1500	65	0.29	98	0.43	-25...+40	1.5	A
		60	230	296	1212	74	0.26	76	0.37	-25...+40	1	A
MA4E-9225A-A02-01	230	50	225	272	1448	65	0.28	83	0.38	-25...+40	1	A
		60	230	296	1212	74	0.26	76	0.37	-25...+40	1.5	A
MA4E-9225A-B01-01	230	50	225	272	1448	65	0.28	83	0.38	-25...+40	1.5	A
		60	425	547	1245	104	0.46	140	0.62	-25...+40	3	A
MA4E-9235A-A01-01	230	50	435	514	1440	130	0.57	150	0.66	-25...+40	3	A
		60	500	620	1250	230	0.63	245	0.91	-25...+40	4	A
MA4E-9242A-A01-01	230	50	484	605	1500	245	0.68	270	0.95	-25...+40	4	A
		60										

Overall Dimmensions

Type	Dimensions [mm]	
	a	b
MA2E-9217A-A20-01	64	17
MA2E-9225A-A20-01	72	25
MA2E-9235A-A20-01	82	35
MA2E-9242A-A20-01	89	42
MA4E-9217A-A40-01	64	17
MA4E-9225A-A40-01	72	25
MA4E-9235A-A40-01	82	35
MA4E-9242A-A40-01	89	42
MA6E-9225A-A60-01	72	25
MA6E-9242A-A60-01	89	42



Ø 102 mm, EXTERNAL ROTOR

AC MOTOR



Features

- Direction of rotation: upper request
- Type of protection: IP44
- Insulation class: F, H
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

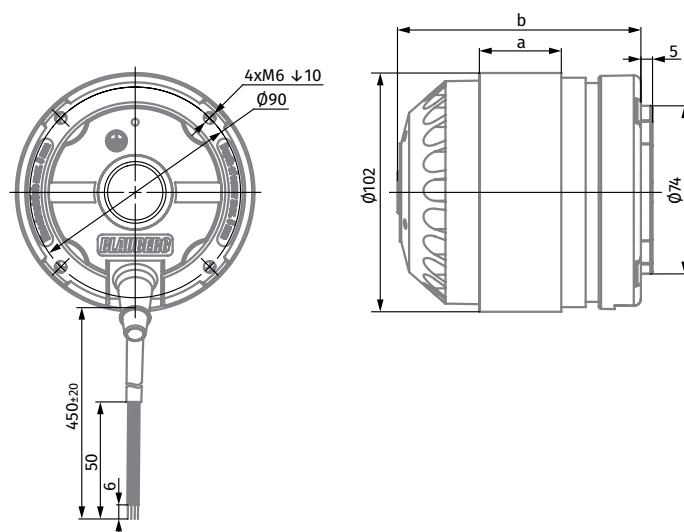


Technical data

Type	Nominal voltage [VAC]	Frequency [Hz]	Rated torque [Ncm]	Max torque [Ncm]	Speed [RPM]	Rated input Power [W]	Current Rated [A]	Power input max [W]	Current max [A]	Perm. Amb. Temperature [°C]	Capa citor, [µF/VDB]	Electrical connection
MA4E-10235A-A01-01	230	50	680	850	1300	195	0.80	210	1.30	-25...+40	4.50	A
		60	681	790	1574	195	0.80	206	1.30	-25...+40	4.50	-
MA4E-10247A-A01-01	230	50	836	1110	1326	203	0.90	361	1.60	-25...+40	6	A
		60	1000	1030	1580	250	1.10	350	1.55	-25...+40	6	-
MA4E-10260A-A01-01	230	50	1102	1527	1333	269	1.19	500	2.10	-25...+40	7	A
		60	1060	1370	1584	310	1.36	495	2.20	-25...+40	7	-
MA4D-10235A-A01-01	400	50	900	1050	1200	184	0.80	208	0.90	-25...+40	-	B
MA4D-10247A-A01-01	400	50	1300	1420	1200	300	1.30	390	1.70	-25...+40	-	B
MA4D-10260A-A01-01	400	50	1900	2160	1300	552	2.40	670	2.91	-25...+40	-	B
MA6E-10235A-A01-01	230	50	200	310	930	70	0.30	105	0.46	-25...+40	2	A
MA6E-10247A-A01-01	230	50	400	505	910	108	0.47	163	0.71	-25...+40	2.50	A
MA6E-10260A-A01-01	230	50	650	770	875	161	0.70	230	1.00	-25...+40	4	A
MA4D-10235A-A01-01	400	50	570	640	840	59.80	0.26	96	0.42	-25...+40	-	B
MA6D-10247A-A01-01	400	50	700	830	900	82.80	0.36	120	0.52	-25...+40	-	B
MA6D-10260A-A01-01	400	50	1200	1380	800	138	0.60	204	0.89	-25...+40	-	B

Overall Dimmensions

Type	Dimensions [mm]	
	a	b
MA4E-10235A-A01-01	35	109
MA4E-10247A-A01-01	47	121
MA4E-10260A-A01-01	60	134
MA4D-10235A-A01-01	35	109
MA4D-10247A-A01-01	47	121
MA4D-10260A-A01-01	60	134
MA6E-10235A-A01-01	35	109
MA6E-10247A-A01-01	47	121
MA6E-10260A-A01-01	60	134
MA6D-10235A-A01-01	35	109
MA6D-10247A-A01-01	47	121
MA6D-10260A-A01-01	60	134



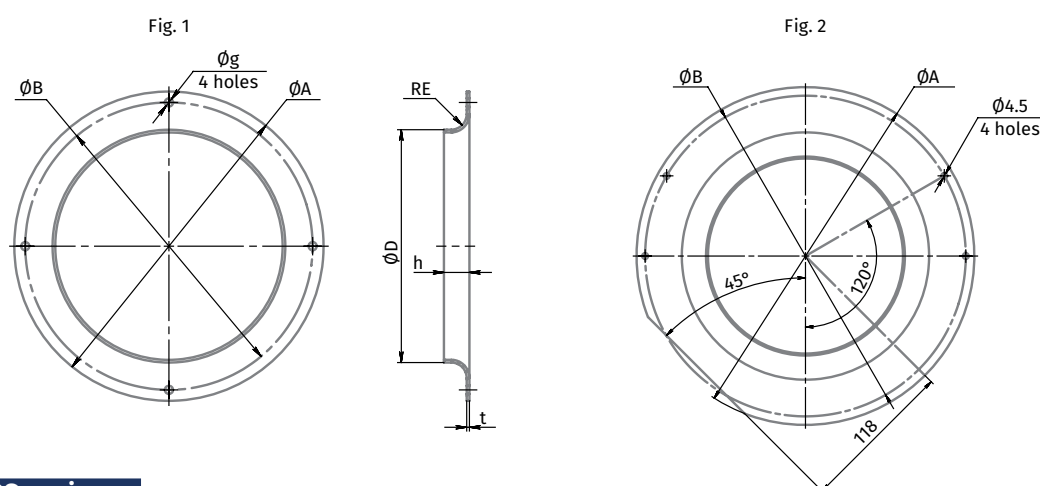
INLET RINGS

Inlet rings IR-PA series

- For backward curved blade impellers
- Made of high quality plastic

OVERALL DIMENSIONS [MM]

BLAUBERG Inlet ring	BLABERG Impeller size	A	B	C	D	RE	h	t	g	Fig.
IR 190BC PA	190	172	158	120.5	125.5	10	15.9	2.5	4.5	1
IR 220BC PA	220	258	245	149	153	20	21	2.0	4.5	2
IR 225BC PA	225	223	210.7	141	145	25	28	2.0	4.5	1
IR 250BC PA	250	255	240	160	164	28	31	2.0	4.5	1

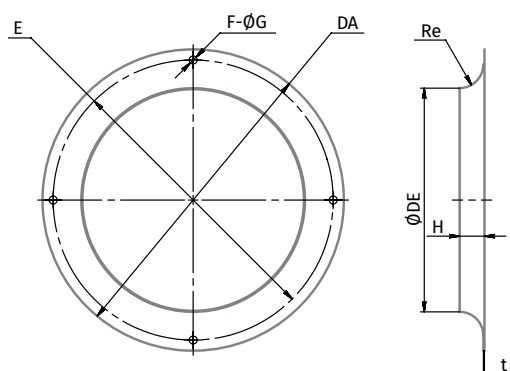


Inlet rings IR-GS series

- For backward curved blade impellers
- Made of galvanized steel

OVERALL DIMENSIONS [MM]

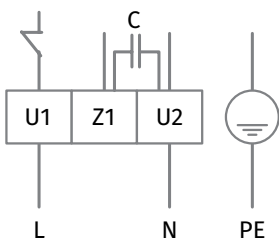
BLAUBERG Inlet ring	BLABERG Impeller size	DA	E	DE	Re	F-ØG	h	t
IR 190BC GS	190	170	158	125	10	4-Ø4.5	14	0.6
IR 220BC GS	220	252	236	152	22	4-Ø4.5	21	0.6
IR 225BC GS	225	223	210.7	145	21	4-Ø4.5	28	1.5
IR 250BC GS	250	255	240	164	18	4-Ø4.5	33	1.5



ELECTRICAL CONNECTION DIAGRAM

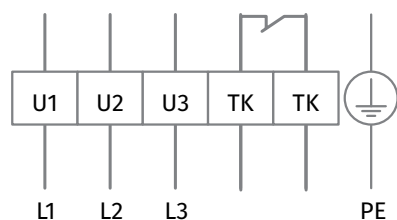
Type "A"

- U1 Blue
- U2 Black
- Z1 Brown
- PE Green/Yellow



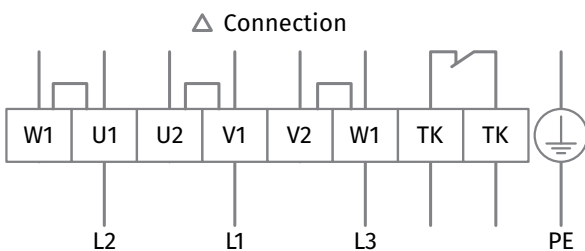
Type "B"

- U1 Blue
- U2 Black
- U3 Brown
- TK White
- PE Green/Yellow



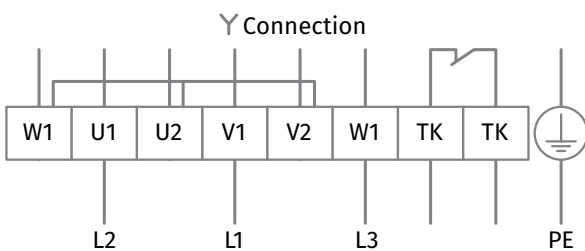
Type "B1"

- U1 Brown
- V1 Blue
- W1 Black
- W2 Orange
- U2 Red
- V2 Gray
- TK White
- PE Green/Yellow



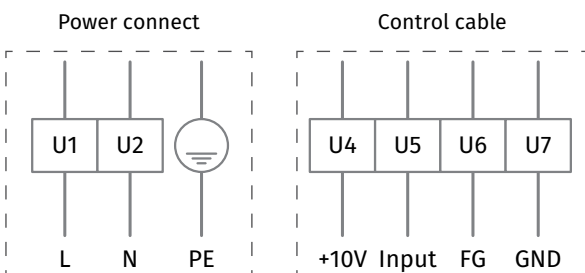
Type "B2"

- U1 Brown
- V1 Blue
- W1 Black
- W2 Orange
- U2 Red
- V2 Gray
- TK White
- PE Green/Yellow



Type "E"

- U1 Brown
- U2 Blue
- PE Green/Yellow
- U4 Red
- U5 Yellow
- U6 White
- U7 Blue



Blauberg Group
Aidenbachstr. 52
D-81379 Munich
Tel.: +49 (0)89 785 08 088
Fax: +49 (0)89 780 69 521

sales@blauberg-motoren.com
blauberg-motoren.com

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