



BLAUBERG
Motoren



Thermal Overload Protector Fitted
BLAUBERG
240V - 50/60Hz - 1.45/0.55A - 100/125W
2450/CE50RPM - 2µF/450V
CE BL-B220B-2E-B01-01
CLASS B

FANS & MOTORS





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 develops state-of-the-art AC, and energy-efficient EC motors. The broad model range helps choose a suitable motor for most any fan configuration.



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.

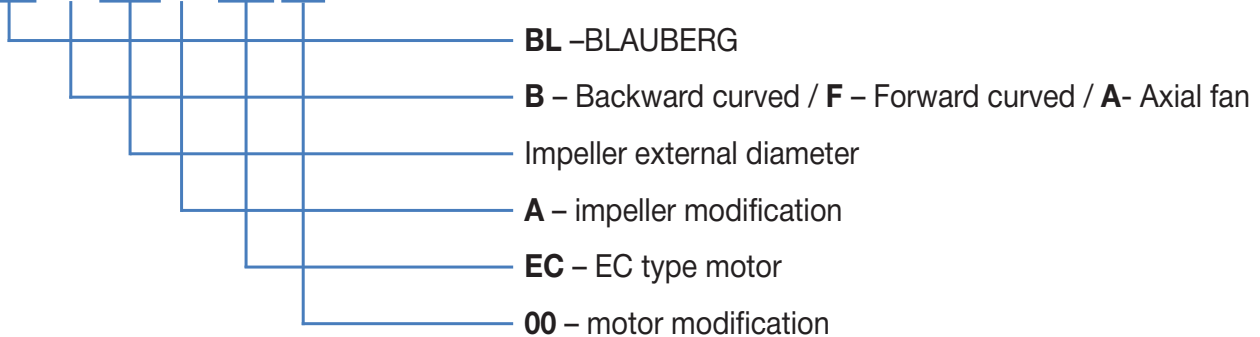
With traditional German quality, we focused on developing and improving best one and newest technology – in our own manufacturing, and in our products.

We are client-oriented company, and try to be best one for our clients in segments we are present.

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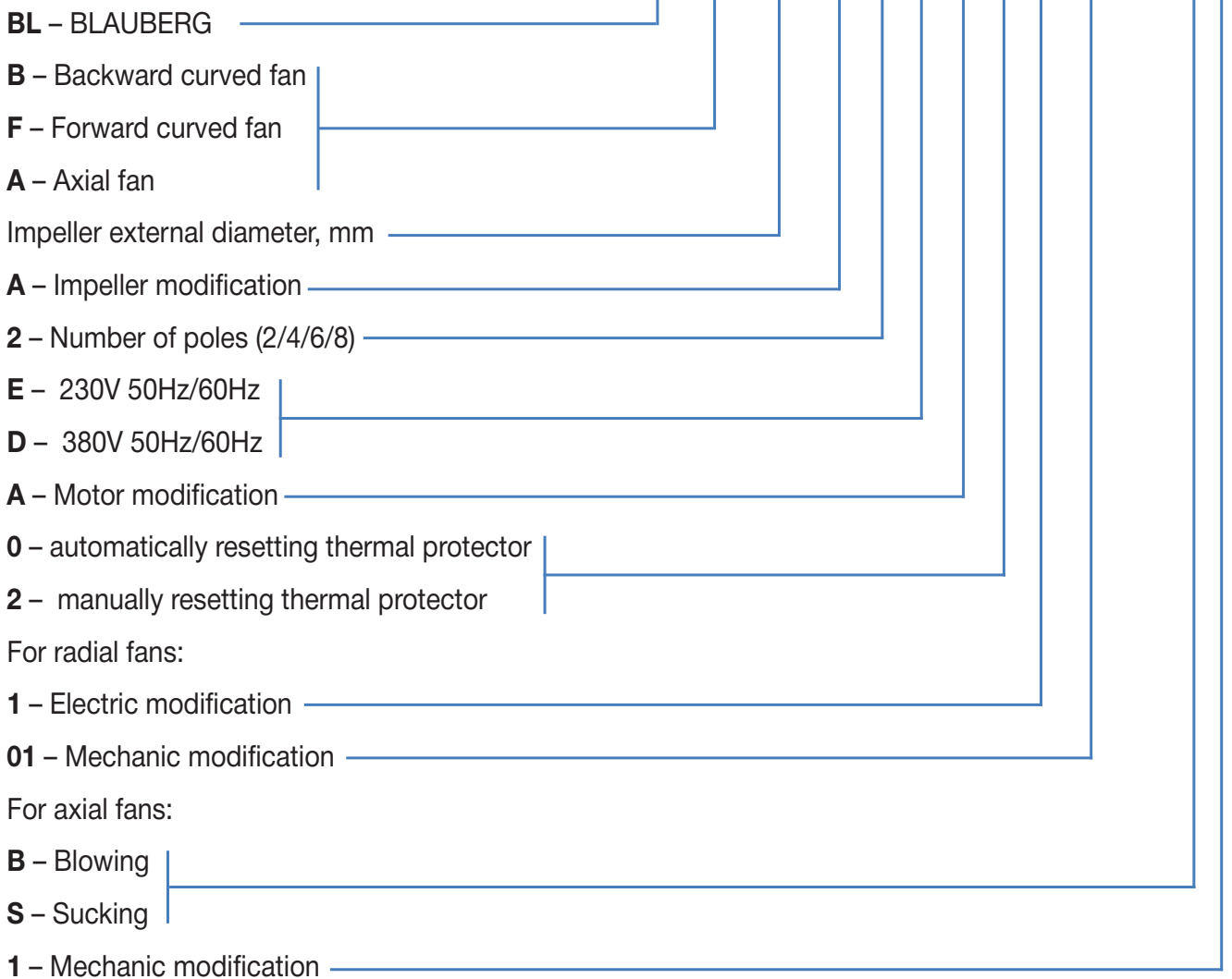
EC radial fans

BL-B190A-EC00



AC Radial and Axial Fans

BL-B 190 A-2 E-A 0 1-01(or B1)



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 1-1.5 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.

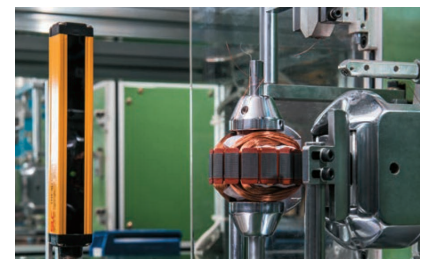
The asynchronous electric motor with short circuit rotor has the following advantages:

- Permanent speed at various loads.
- Resistance to short-term mechanical overloads.
- Easy structure.
- Easy start-up.
- Higher $\cos \varphi$ 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%.

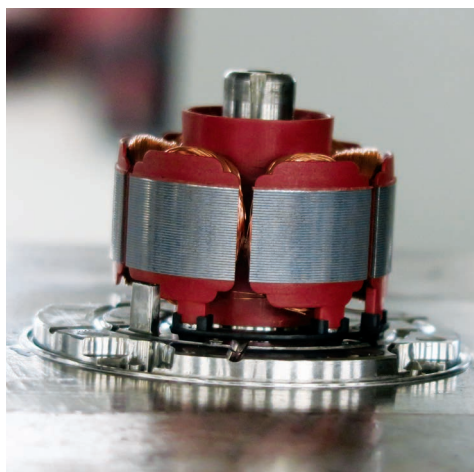
These new electric motors are featured with high performance, low noise level and controllable total speed range. The electronic EC-controller enables some other smart functions, e.g. fan control according to measured temperature, pressure and other parameters.

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.



Axial Fans

AC

EC



AC axial fan (Stamped \varnothing 200 mm)



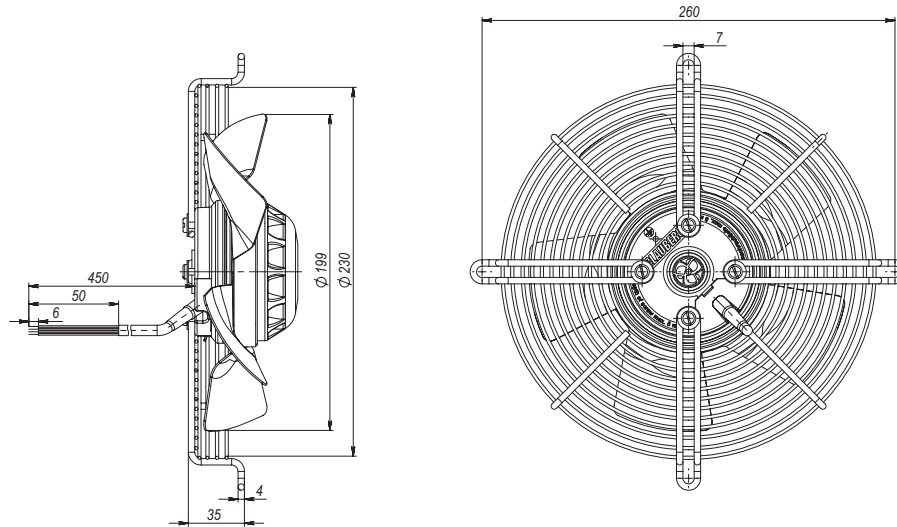
- Impeller material: steel powder coated, stamped
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



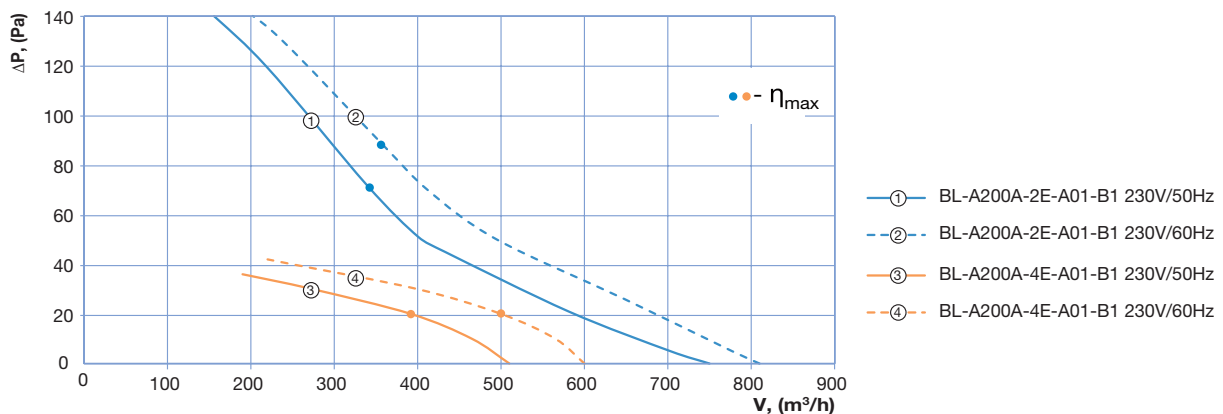
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A200A-2E-A01-B1	230	50	2590	58	0.26	56	-25°C...+40°C	1.5/450	A
		60	2800	75	0.33	60			
BL-A200A-4E-A01-B1	230	50	1400	40	0,21	43	-25°C...+40°C	1.5/450	A
		60	1500	50	0,23	45			

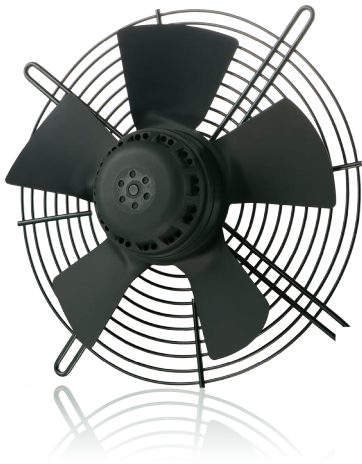
Overall dimensions



Performance curves



AC axial fan (Stamped \varnothing 250 mm)



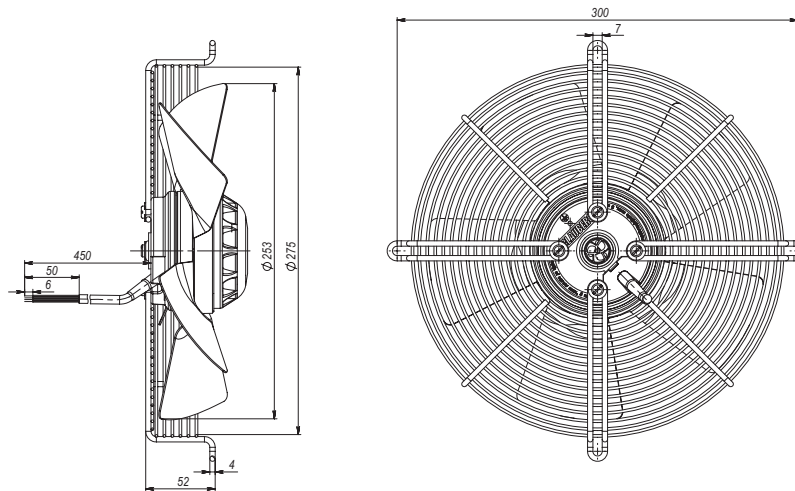
- Impeller material: steel powder coated, stamped
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



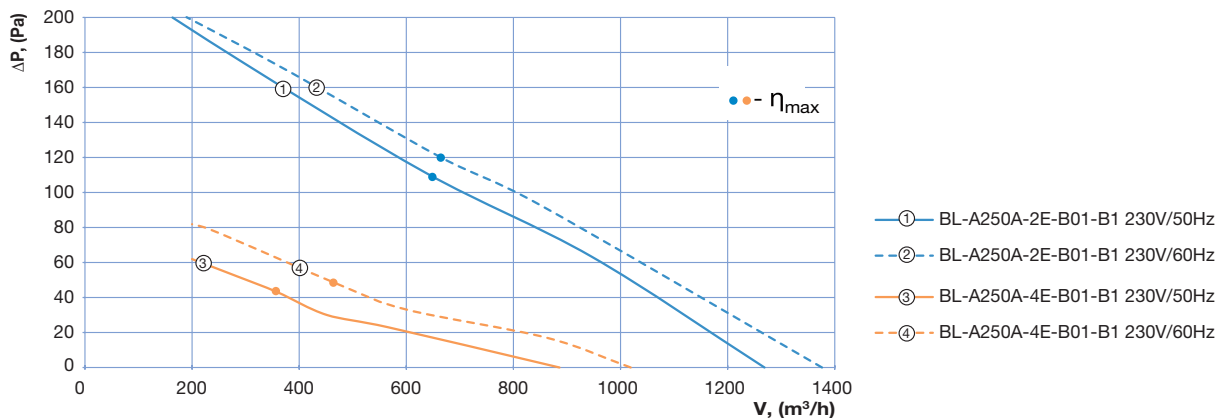
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A250A-2E-B01-B1	230	50	2650	110	0,49	60	-25°C...+40°C	2,5/450	A
		60	2900	135	0,58	62			
BL-A250A-4E-B01-B1	230	50	1380	47	0.23	53	-25°C...+40°C	2/450	A
		60	1580	52	0.24	54			

Overall dimensions



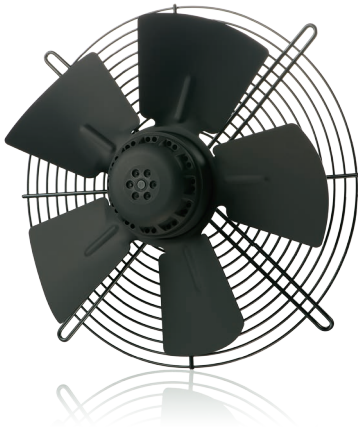
Performance curves



AC axial fan (Stamped \varnothing 300 mm)

AC

EC



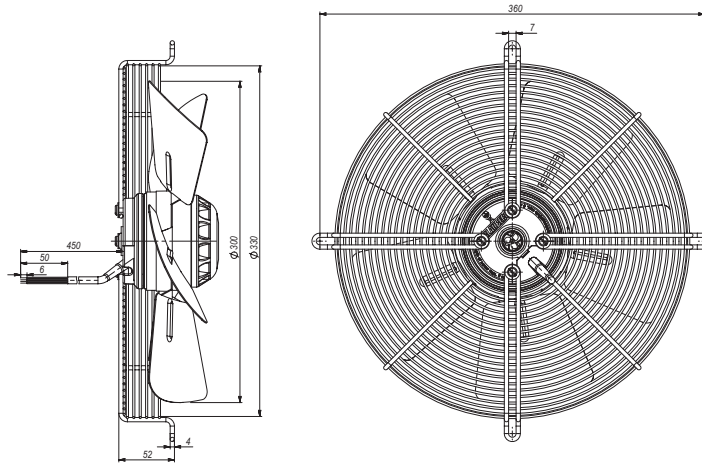
- Impeller material: steel powder coated, stamped
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



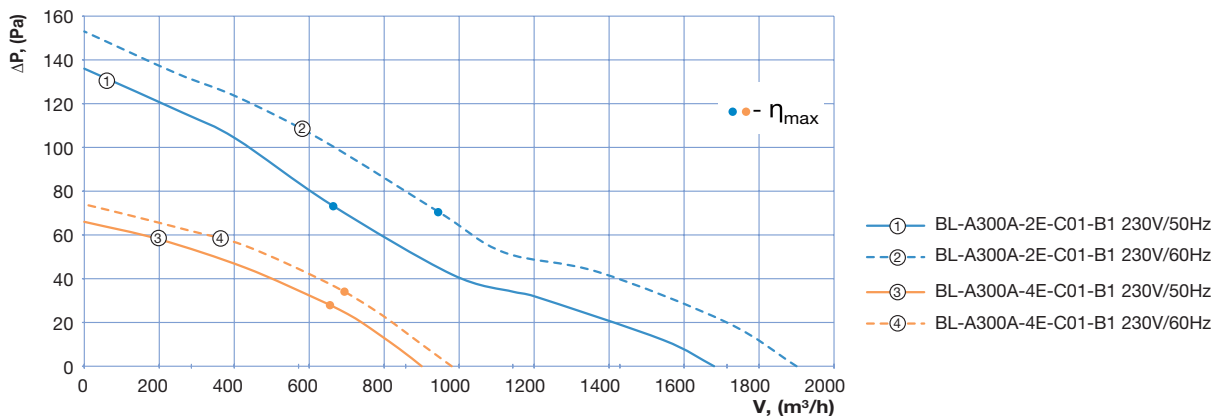
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A300A-2E-C01-B1	230	50	2500	125	0.55	58	-25°C...+40°C	4/450	A
		60	2700	155	0,7	60			
BL-A300A-4E-C01-B1	230	50	1350	90	0,42	54	-25°C...+40°C	3/450	A
		60	1600	115	0,51	59			

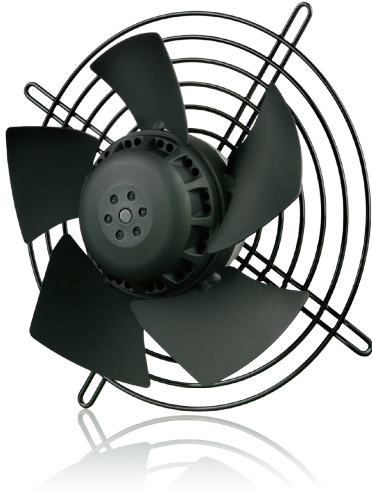
Overall dimensions



Performance curves



AC axial fan (welded \varnothing 200 mm, 5 blades)



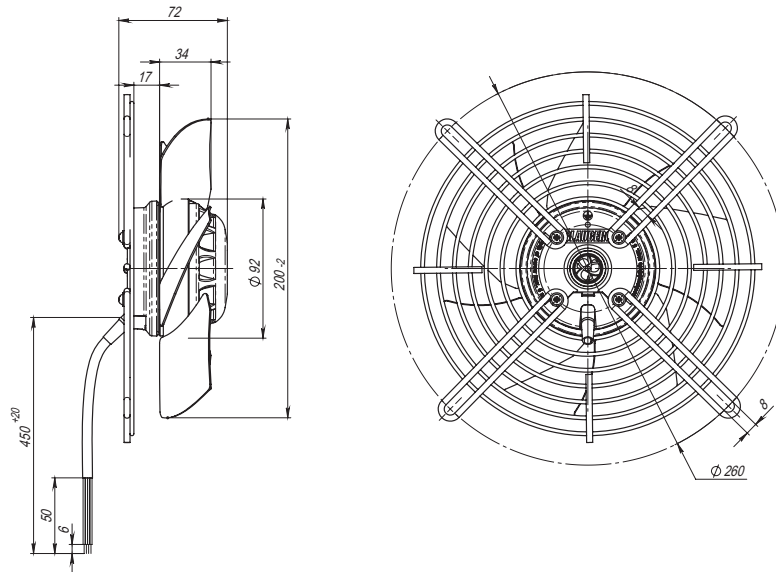
- Impeller material: steel powder coated, welded
- Direction of rotation: counterclockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



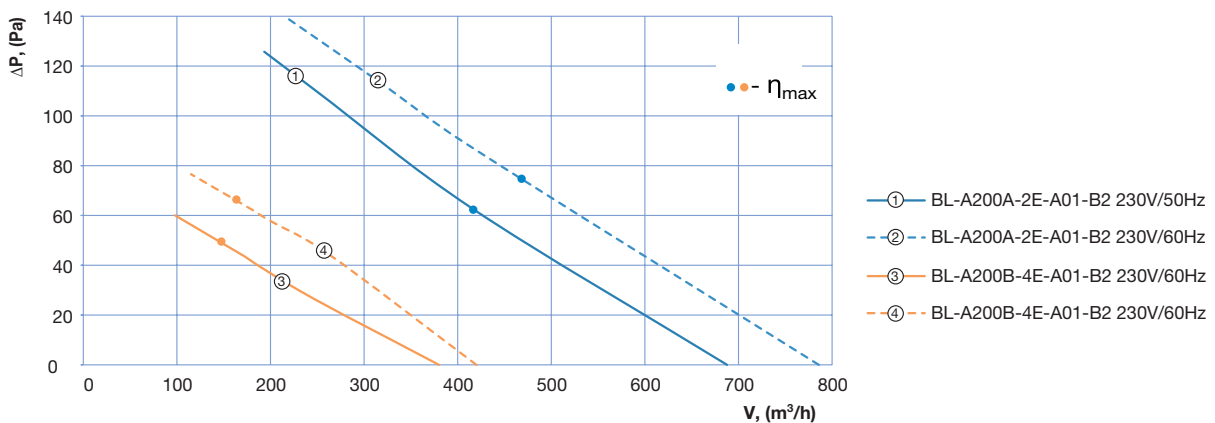
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A200B-2E-A01-B2	230	50	2650	53	0.25	56	-25°C...+40°C	1.5/450	A
		60	2940	63	0.27	60			
BL-A200B-4E-A01-B2	230	50	1400	35	0,21	43	-25°C...+40°C	1.5/450	A
		60	1500	46	0,23	45			

Overall dimensions



Performance curves



AC axial fan (welded \varnothing 200 mm, 7 blades)

AC

EC



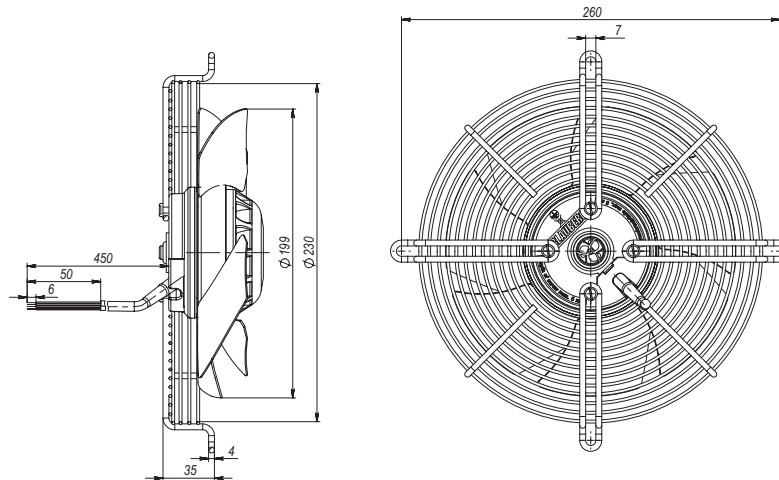
- Impeller material: steel powder coated, welded
- Direction of rotation: counterclockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



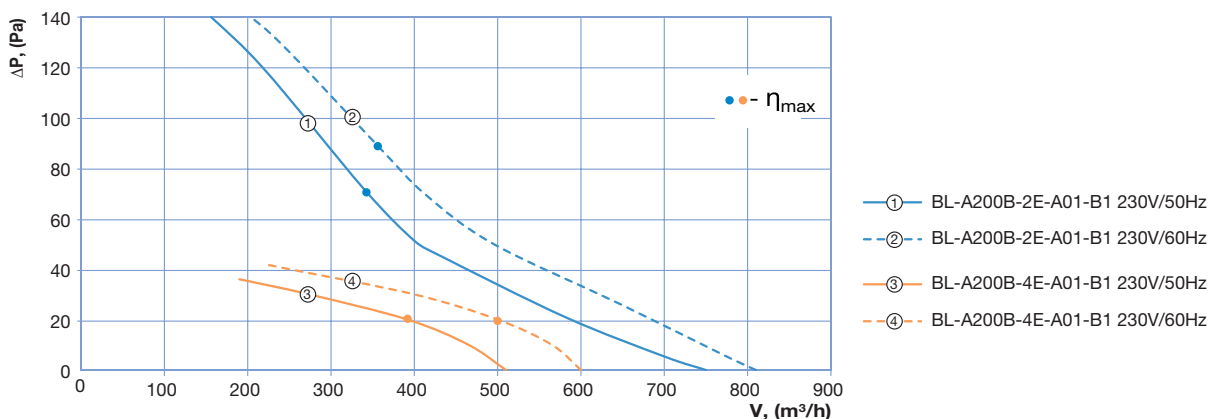
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A200B-2E-A01-B1	230	50	2590	58	0.26	56	-25°C...+40°C	1.5/450	A
		60	2800	75	0.33	60			
BL-A200B-4E-A01-B1	230	50	1400	40	0,21	43	-25°C...+40°C	1.5/450	A
		60	1500	50	0,23	45			

Overall dimensions



Performance curves



AC axial fan (welded \varnothing 200mm, 9 blades)



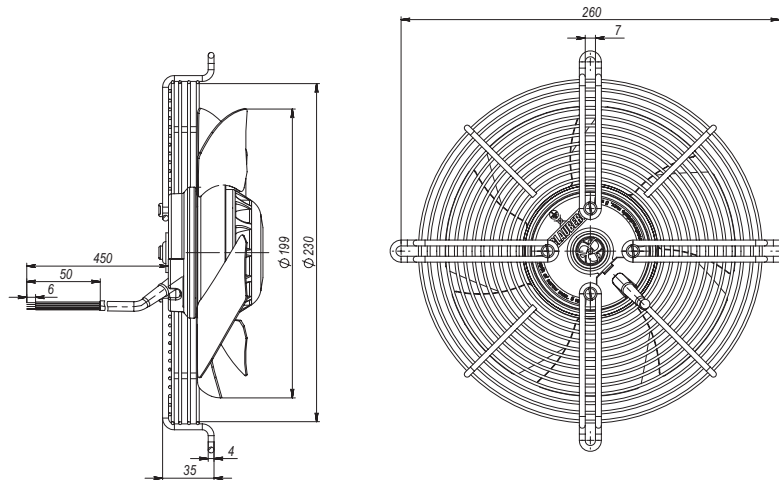
- Impeller material: steel powder coated, welded
- Direction of rotation: counterclockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



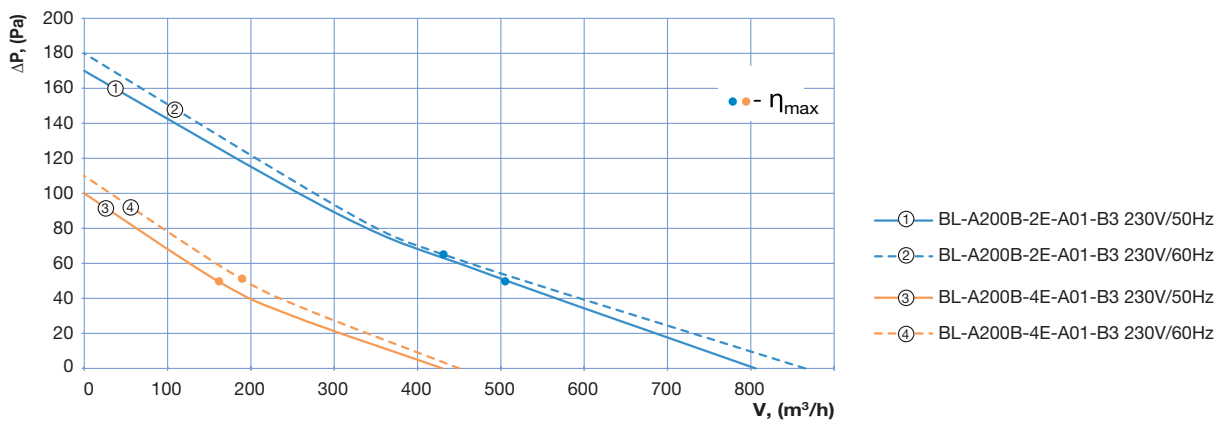
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A200B-2E-A01-B3	230	50	2580	62	0.29	56	-25°C...+40°C	1.5/450	A
		60	2760	81	0.36	60			
BL-A200B-4E-A01-B3	230	50	1400	40	0,21	43	-25°C...+40°C	1.5/450	A
		60	1500	50	0,23	45			

Overall dimensions



Performance curves



AC axial fan (welded \varnothing 300 mm)



- Impeller material: steel powder coated, welded
- 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

AC

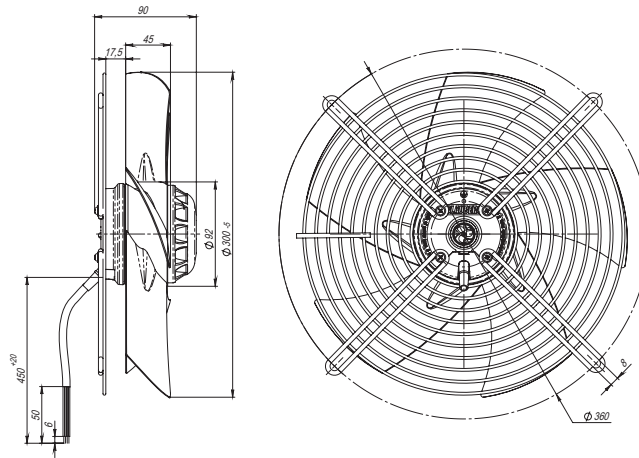
EC



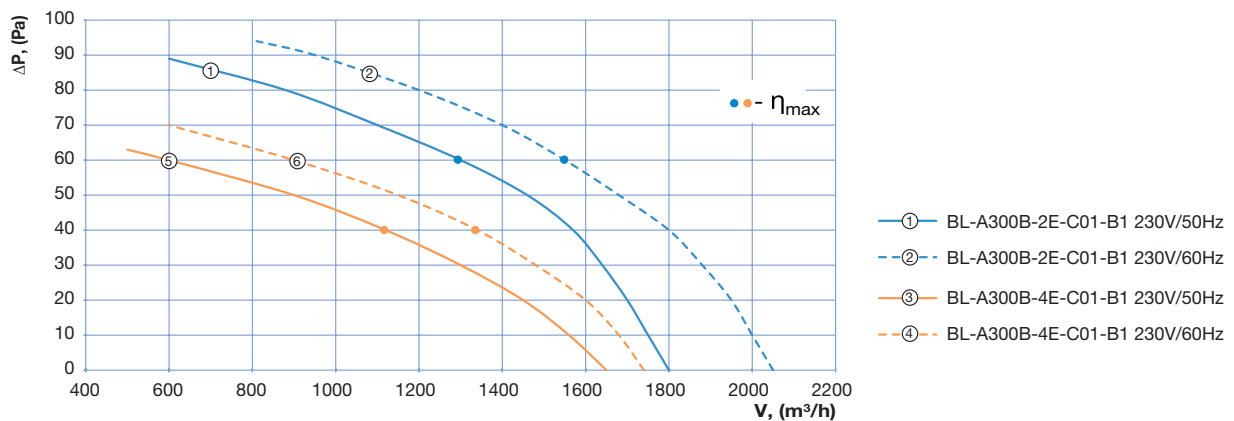
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A300B-2E-C01-B1	230	50	2500	125	0,55	58	-25°C...+40°C	4/450	A
		60	2700	155	0,7	60			
BL-A300B-4E-C01-B1	230	50	1350	90	0,42	54	-25°C...+40°C	3/450	A
		60	1600	115	0,51	59			

Overall dimensions

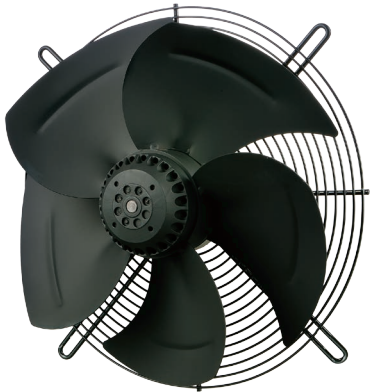


Performance curves



AC axial fan (welded \varnothing 350 mm)

AC
EC



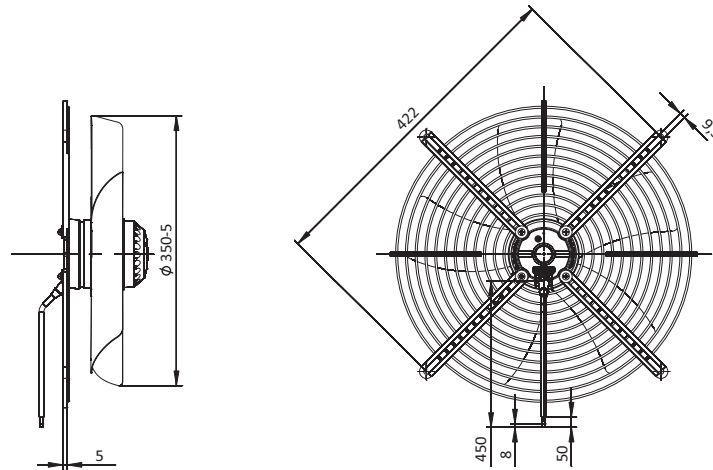
- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



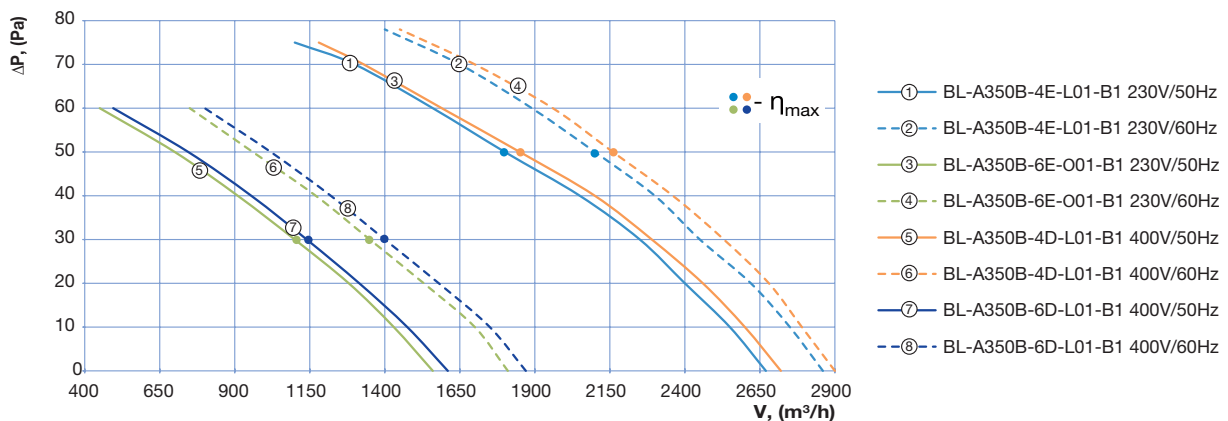
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A350B-4E-L01-B1	230	50	1350	135	0,6	58	-25°C...+40°C	4/450	A
		60	1500	190	0,83	60			
BL-A350B-6E-O01-B1	230	50	950	80	0,4	53	-25°C...+40°C	3/450	A
		60	1100	83	0,37	54			
BL-A350B-4D-L01-B1	400	50	1360	135	0.3	58	-25°C...+40°C	-	B
		60	1500	170	0.34	60			
BL-A350B-6D-L01-B1	400	50	920	70	0,22	53	-25°C...+40°C	-	B
		60	1070	80	0,2	54			

Overall dimensions



Performance curves



AC axial fan (welded \varnothing 400 mm)



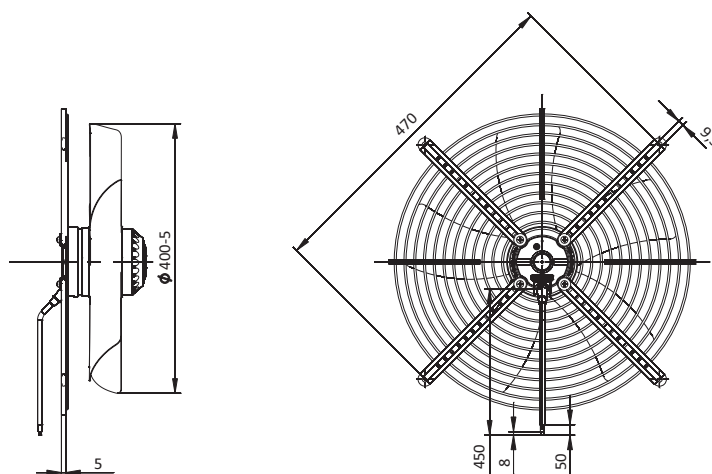
- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



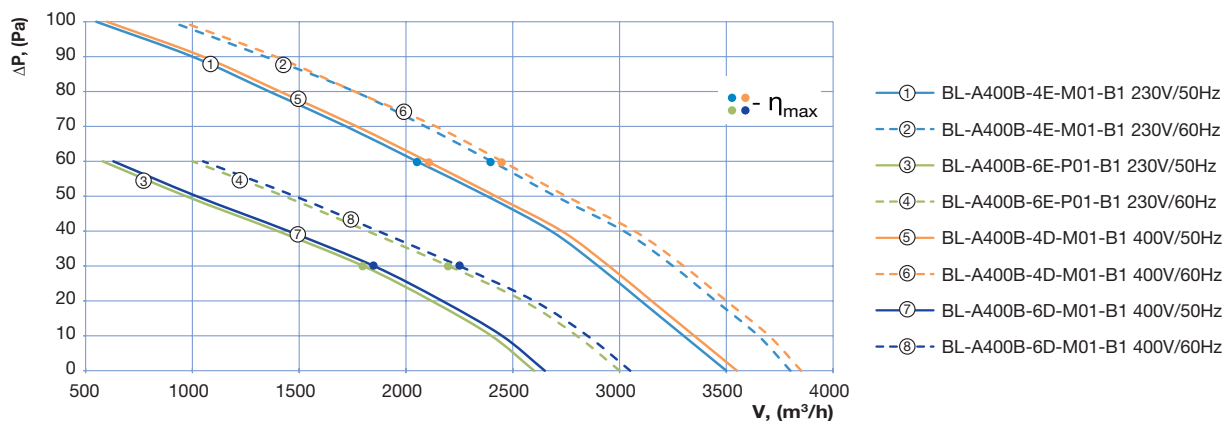
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A400B-4E-M01-B1	230	50	1350	190	0,9	60	-25°C...+40°C	6/450	A
		60	1580	270	1,22	62			
BL-A400B-6E-P01-B1	230	50	950	120	0.55	55	-25°C...+40°C	4/450	A
		60	1100	130	0.57	57			
BL-A400B-4D-M01-B1	400	50	1370	190	0,5	60	-25°C...+40°C	-	B
		60	1620	245	0,47	62			
BL-A400B-6D-M01-B1	400	50	930	110	0.31	55	-25°C...+40°C	-	B
		60	1050	135	0.3	57			

Overall dimensions



Performance curves



AC axial fan (welded \varnothing 450 mm)



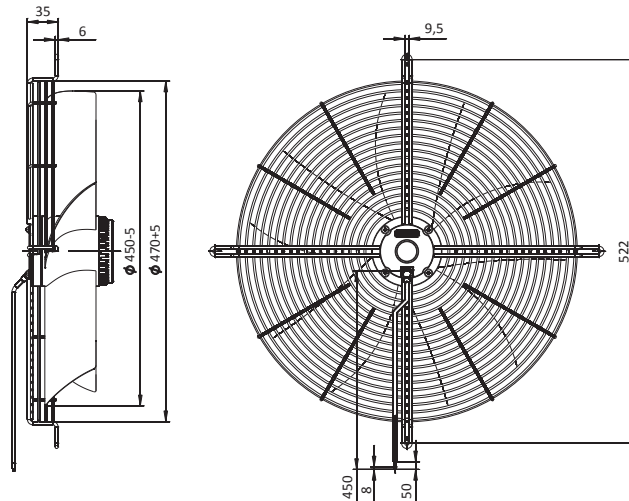
- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



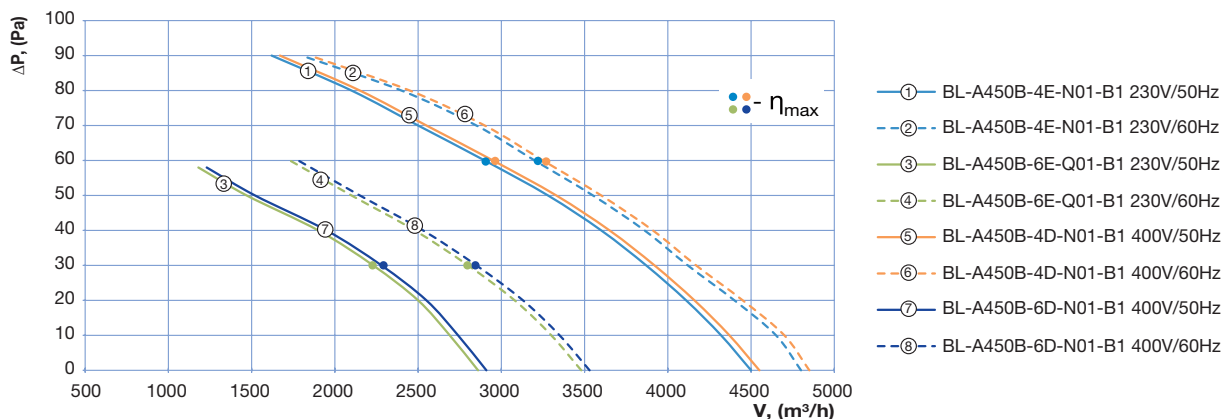
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A450B-4E-N01-B1	230	50	1350	230	1,1	62	-25°C...+40°C	7/450	A
		60	1600	330	1,5	64			
BL-A450B-6E-Q01-B1	230	50	920	135	0,65	56	-25°C...+40°C	6/450	A
		60	920	175	0,8	58			
BL-A450B-4D-N01-B1	400	50	1380	230	0,65	62	-25°C...+40°C	-	B
		60	1610	335	0,6	64			
BL-A450B-6D-N01-B1	400	50	910	120	0,33	56	-25°C...+40°C	-	B
		60	1030	145	0,34	58			

Overall dimensions



Performance curves



AC axial fan (welded \varnothing 500 mm)



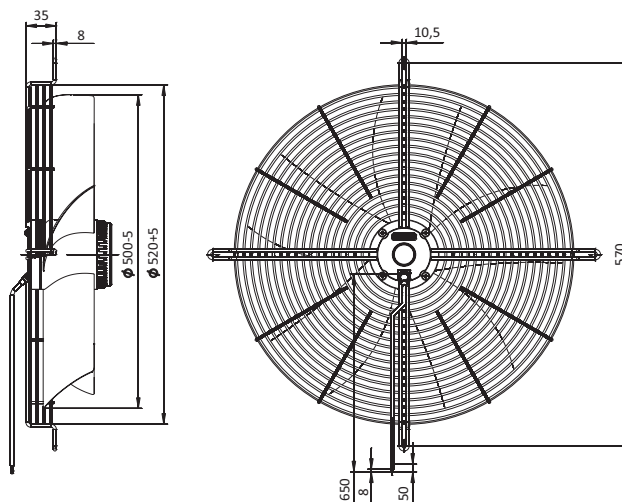
- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



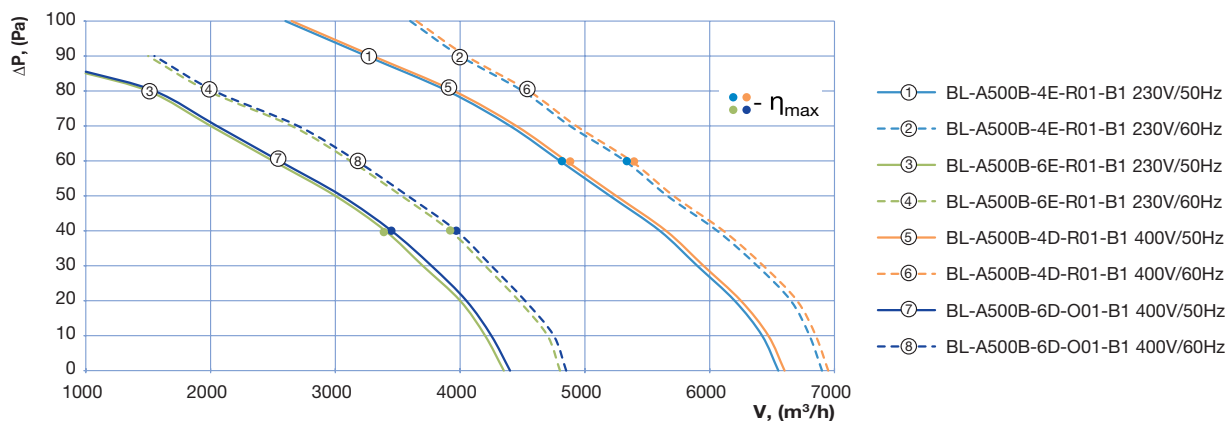
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A500B-4E-R01-B1	230	50	1320	420	2	69	-25°C...+40°C	10.0/450	A
		60	1450	500	2,5	70			
BL-A500B-6E-R01-B1	230	50	920	220	1,1	66	-25°C...+40°C	4.0/450	A
		60	1020	305	1,38	68			
BL-A500B-4D-R01-B1	400	50	1350	420	0,95	69	-25°C...+40°C	-	B
		60	1500	500	0,9	70			
BL-A500B-6D-O01-B1	400	50	920	220	0,62	66	-25°C...+40°C	-	B
		60	1100	275	0,6	68			

Overall dimensions



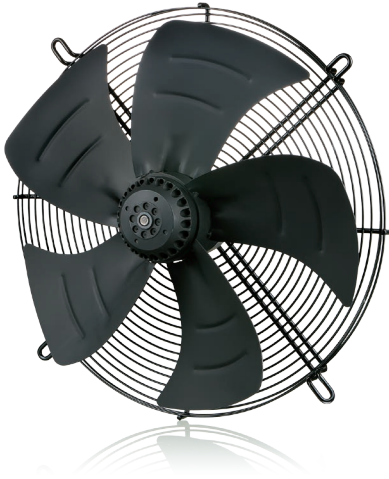
Performance curves



AC axial fan (welded ø 550 mm)

AC

EC



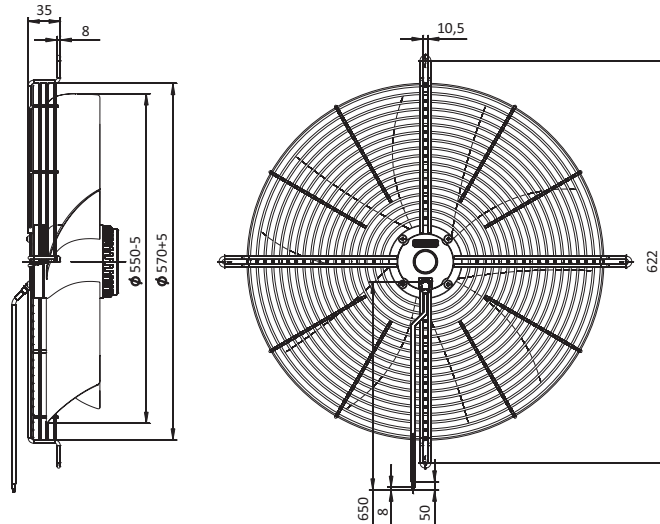
- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



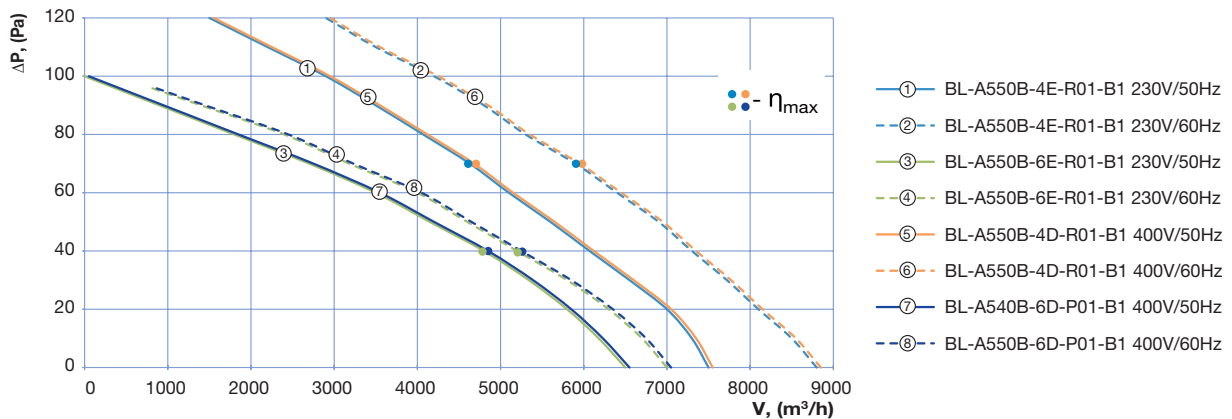
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μF/VDB	Electrical connection
BL-A550B-4E-R01-B1	230	50	1320	550	2,5	73	-25°C...+40°C	12/450	A
		60	1400	725	3,3	74			
BL-A550B-6E-R01-B1	230	50	910	320	1,5	62	-25°C...+40°C	10/450	A
		60	1060	465	2,15	69			
BL-A550B-4D-R01-B1	400	50	1330	550	1,1	73	-25°C...+40°C	-	B
		60	1540	725	1,4	74			
BL-A550B-6D-R01-B1	400	50	910	320	0,95	65	-25°C...+40°C	-	B
		60	1090	440	1	69			

Overall dimensions



Performance curves



AC axial fan (welded \varnothing 600 mm)



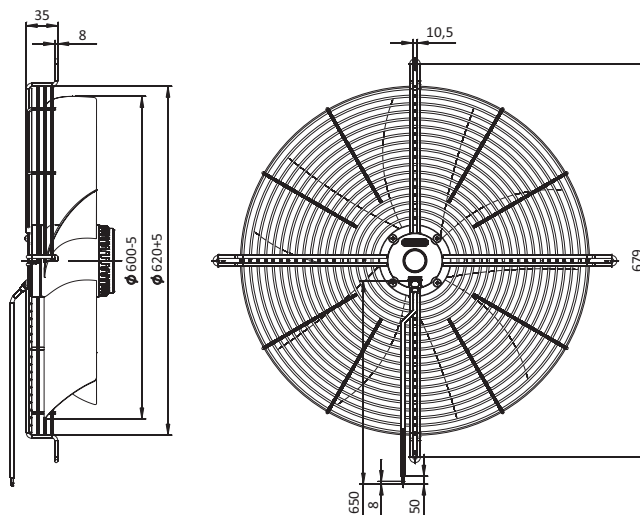
- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



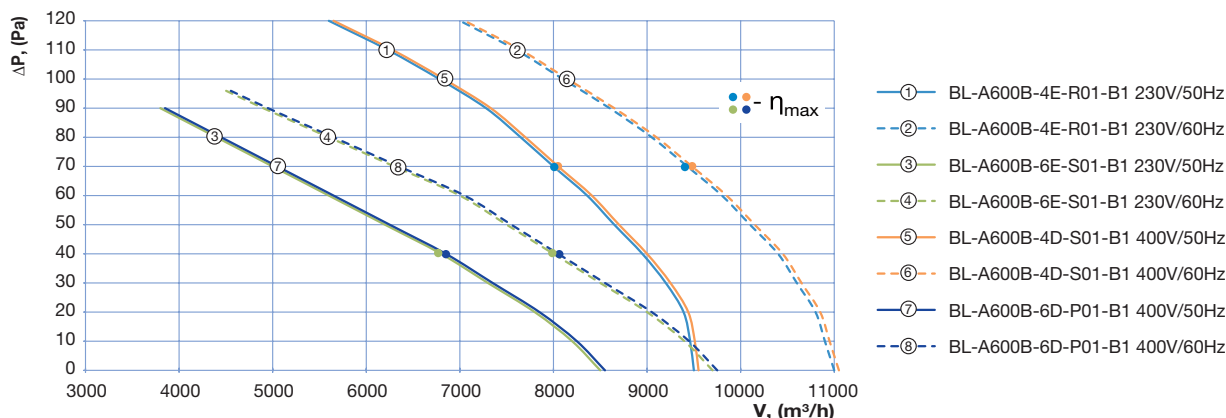
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A600B-4E-S01-B1	230	50	1380	800	3,8	73	-25°C...+40°C	16/450	A
		60	1640	920	4,2	75			
BL-A600B-6E-S01-B1	230	50	910	500	2,4	69	-25°C...+40°C	12/450	A
		60	1080	640	2,94	70			
BL-A600B-4D-S01-B1	400	50	1350	800	1,5	73	-25°C...+40°C	-	B
		60	1550	1000	2	75			
BL-A600B-6D-S01-B1	400	50	920	500	1,5	69	-25°C...+40°C	-	B
		60	1070	575	1,5	70			

Overall dimensions

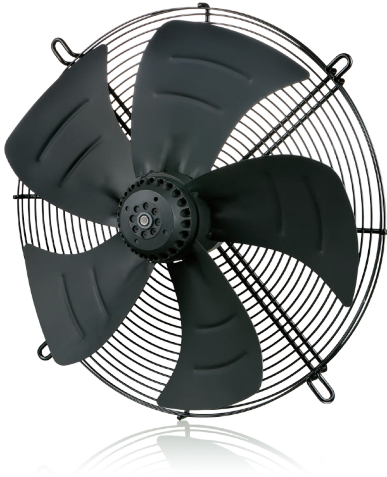


Performance curves



AC axial fan (welded \varnothing 630 mm)

AC
EC



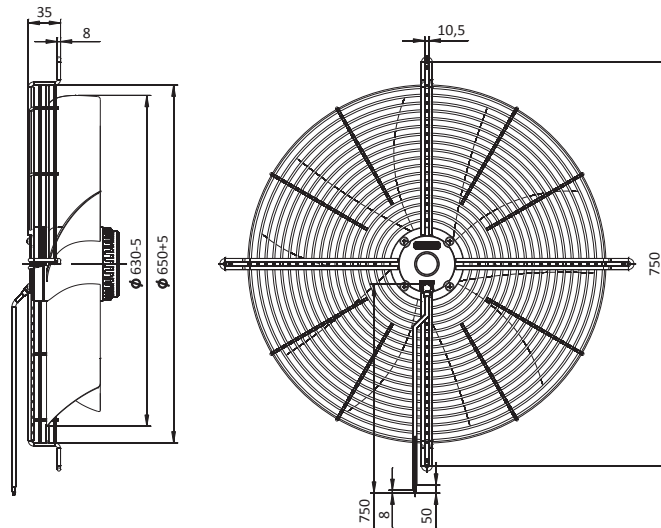
- Impeller material: steel powder coated, welded
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



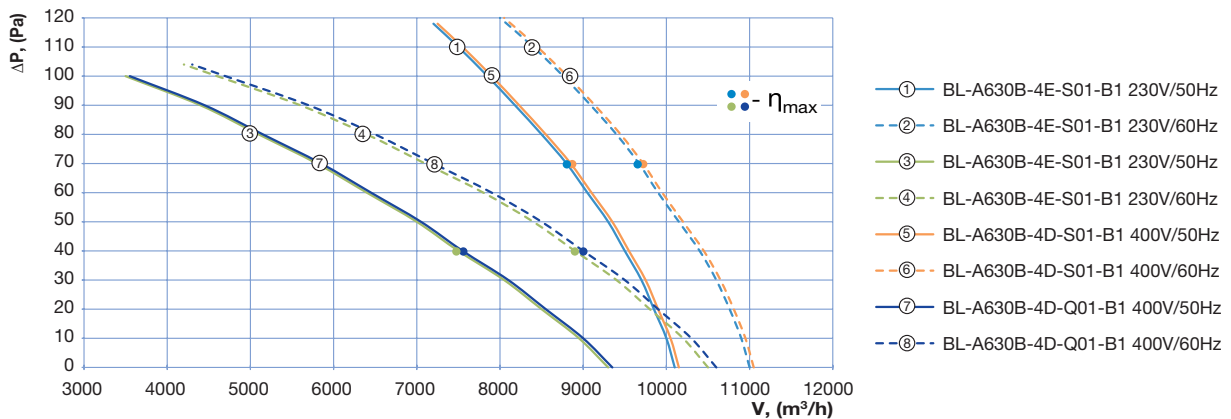
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-A630B-4E-S01-B1	230	50	1360	800	3,7	74	-25°C...+40°C	16/450	A
		60	1500	1150	5,3	75			
BL-A630B-6E-S01-B1	230	50	900	520	2,5	67	-25°C...+40°C	12/450	A
		60	1050	705	3,25	71			
BL-A630B-4D-S01-B1	400	50	1350	850	1,6	74	-25°C...+40°C	-	B
		60	1540	1010	1,8	75			
BL-A630B-6D-Q01-B1	400	50	900	550	1,4	70	-25°C...+40°C	-	B
		60	1060	740	1,56	71			

Overall dimensions



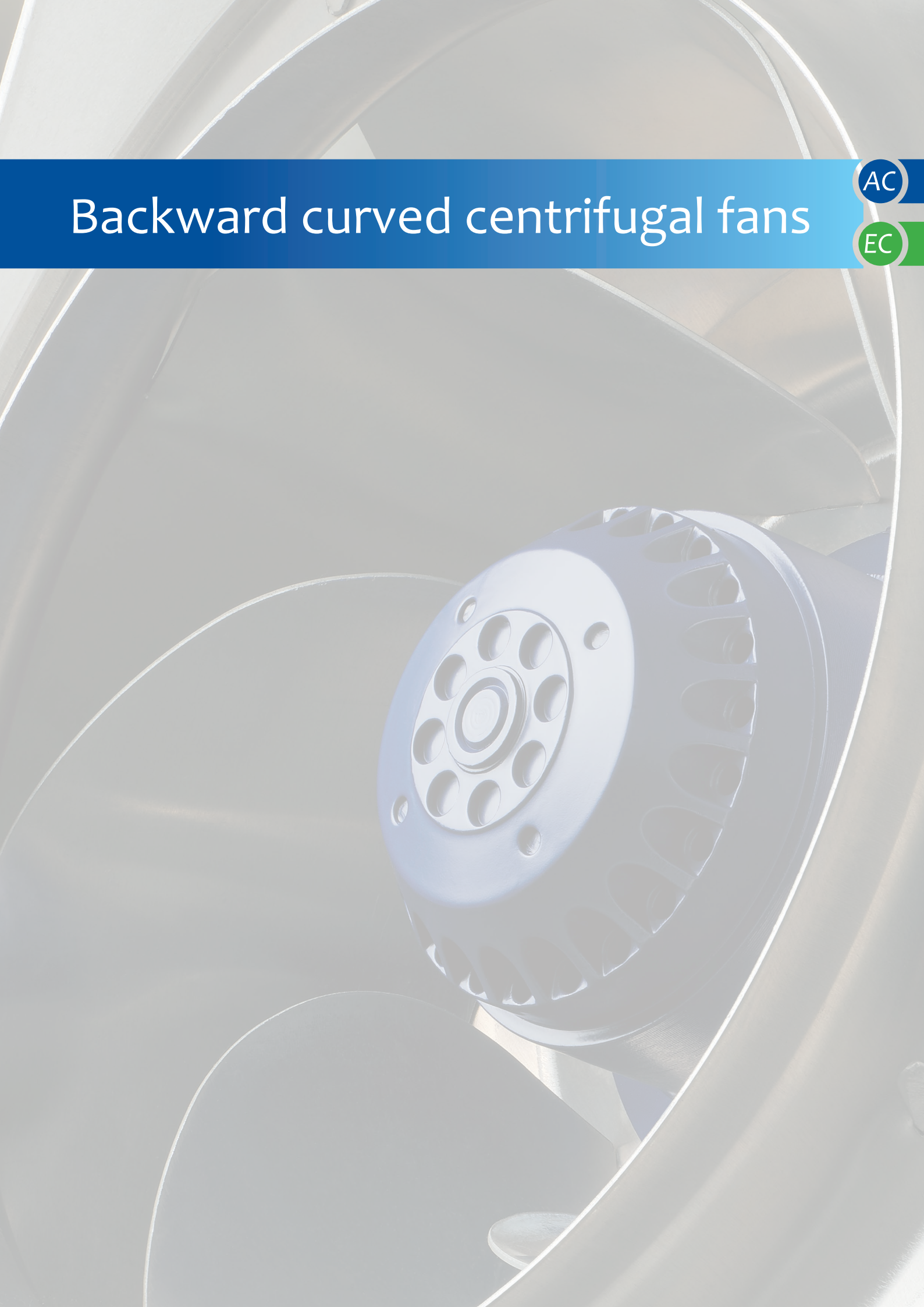
Performance curves



Backward curved centrifugal fans

AC

EC



AC centrifugal fan (backward curved \varnothing 133 mm)



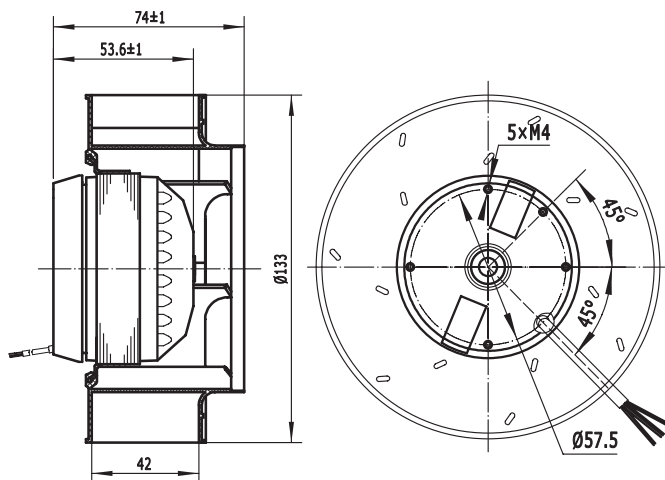
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



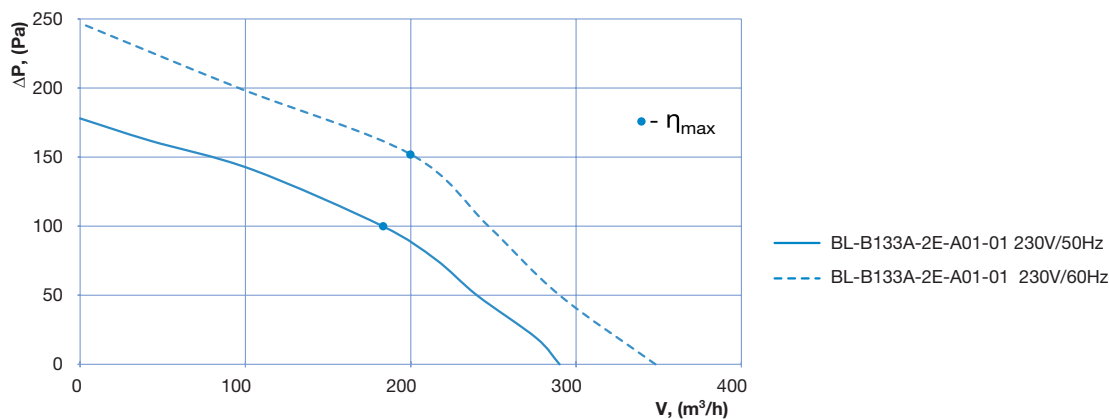
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B133A-2E-A01-01	230	50	2800	24	0,11	56	-25°C...+40°C	1.0/450	A
		60	3300	27	0,13	60	-25°C...+40°C	1.0/450	

Overall dimensions



Performance curves



AC centrifugal fan (backward curved $\varnothing 175$ mm)



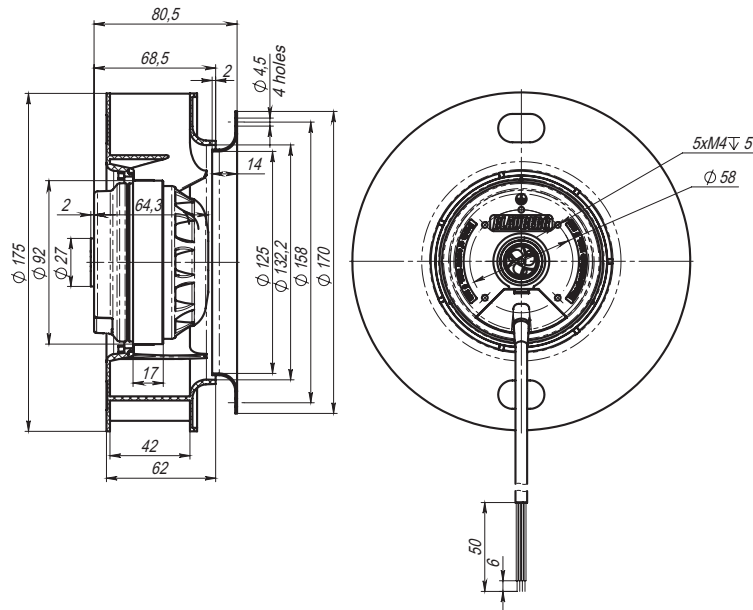
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



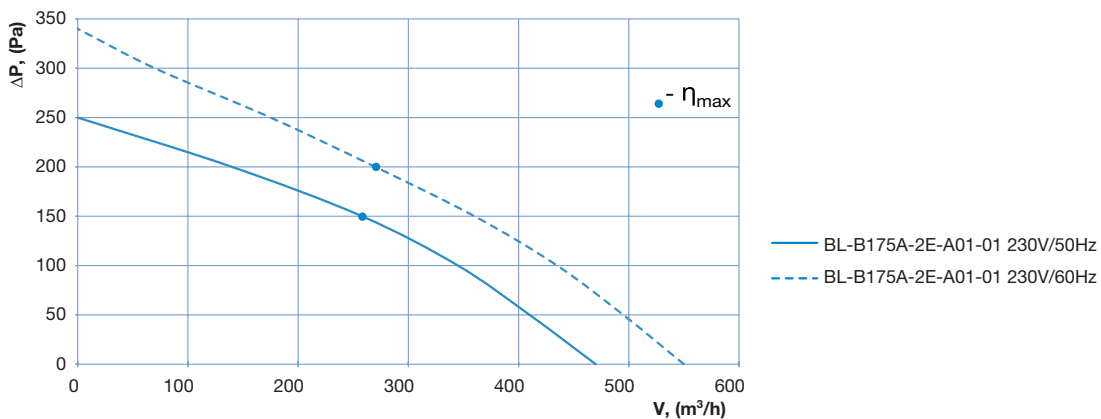
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B175A-2E-A01-01	230	50	2620	50	0.26	62	-25°C...+50°C	1.5/450	A
		60	3070	50	0.22	64	-25°C...+50°C	1.5/450	

Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 220 mm)



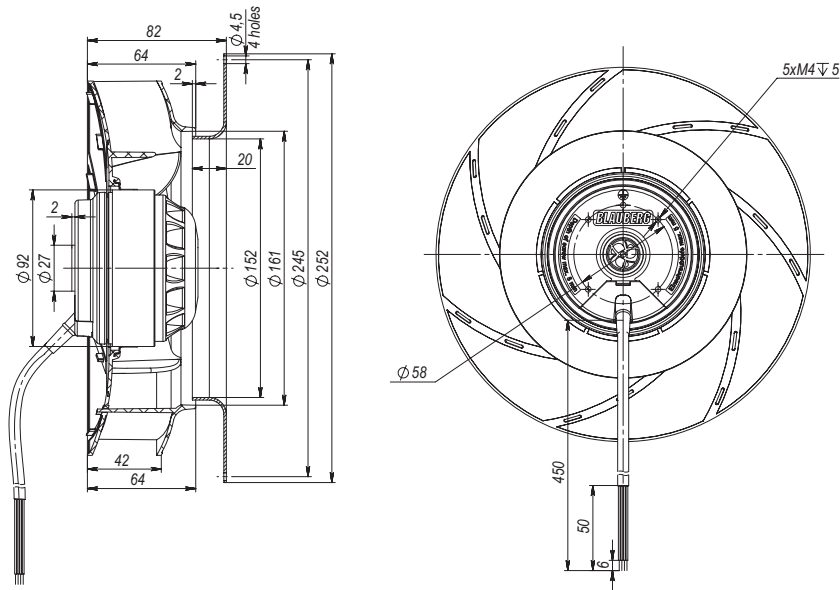
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



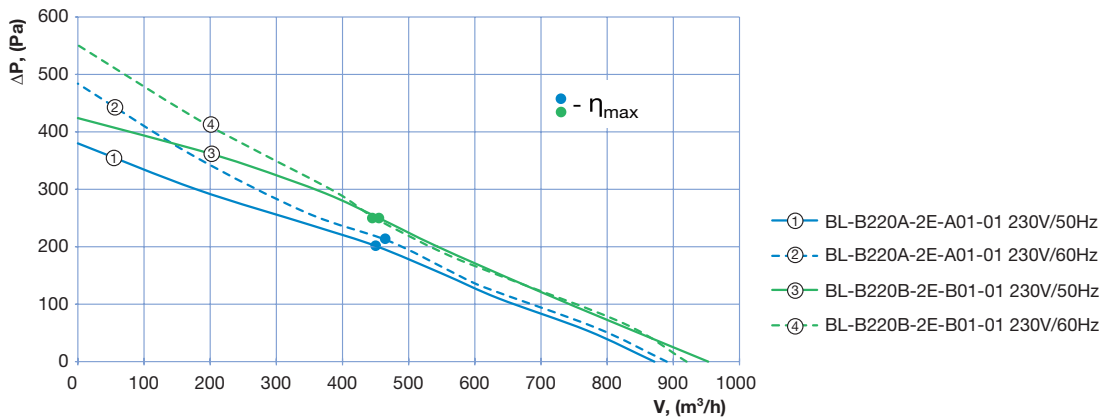
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B220B-2E-A01-01	230	50	2115	97	0.43	69	-25°C...+50°C	2/450	A
		60	2145	111	0.48	70			
BL-B220B-2E-B01-01	230	50	2320	110	0.5	70	-25°C...+50°C	2/450	A
		60	2300	135	0.59	71			

Overall dimensions



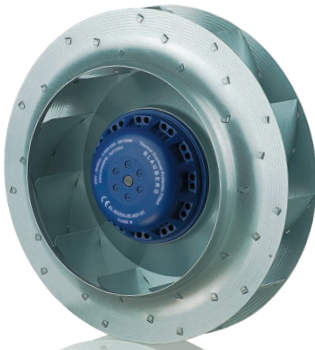
Performance curves



AC centrifugal fan (backward curved $\varnothing 225$ mm)

AC

EC



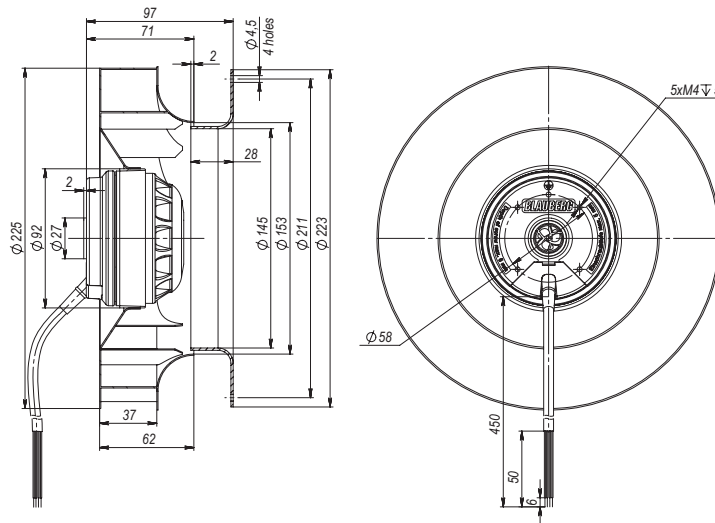
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



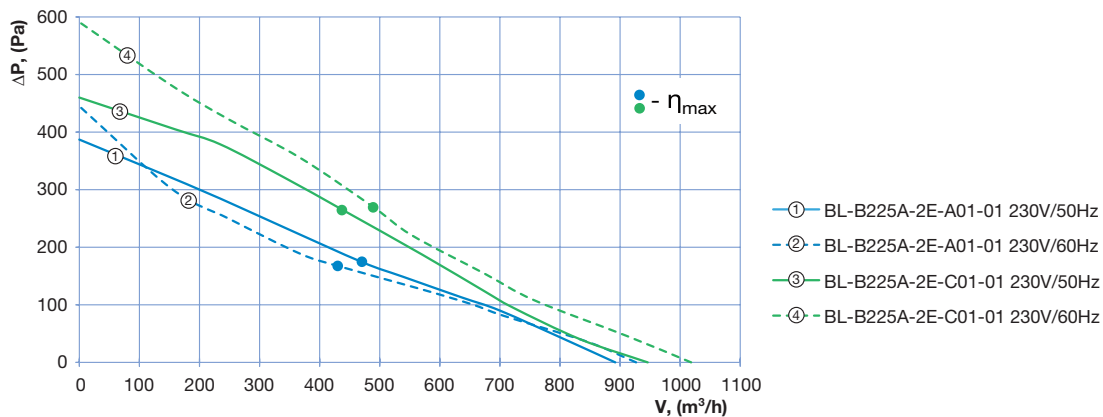
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B225A-2E-A01-01	230	50	2150	92	0.41	70	-25°C...+50°C	2/450	A
		60	2100	109	0.48	71			
BL-B225A-2E-C01-01	230	50	2545	108	0.49	74	-25°C...+50°C	3.5/450	A
		60	2620	150	0.66	76			

Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 225 mm)



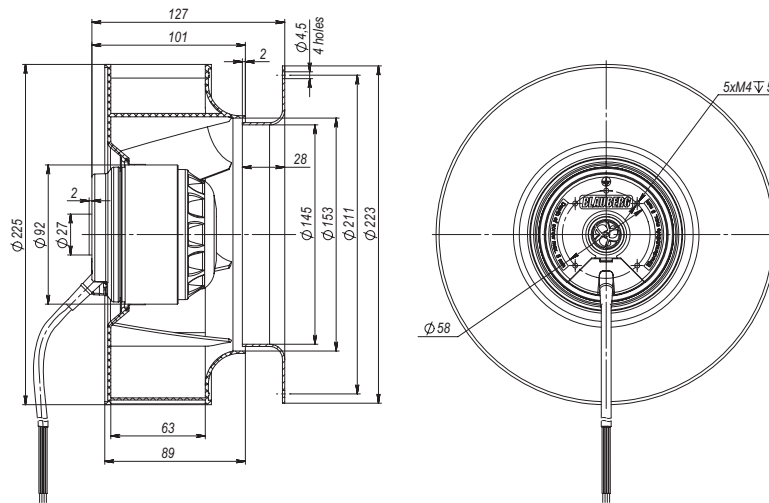
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



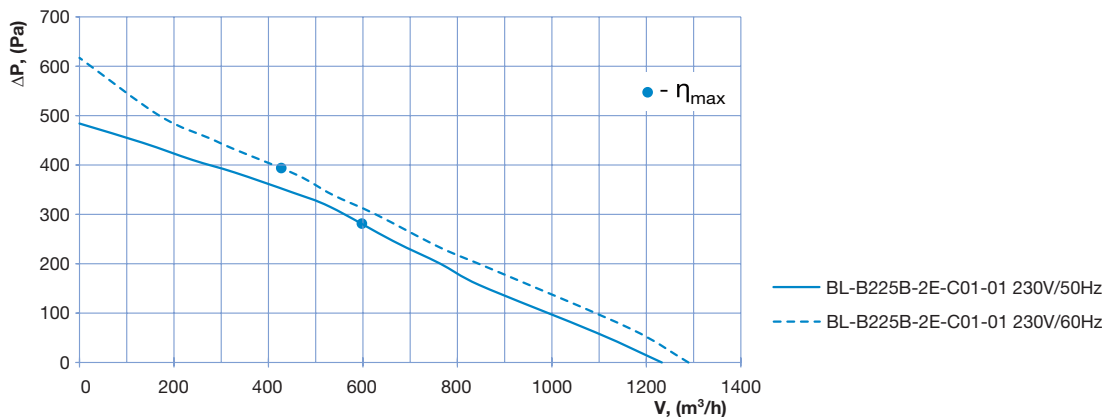
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B225B-2E-C01-01	230	50	2495	140	0.62	69	-25°C...+50°C	4/450	A
		60	2655	185	0.81	71	-25°C...+50°C	4/450	

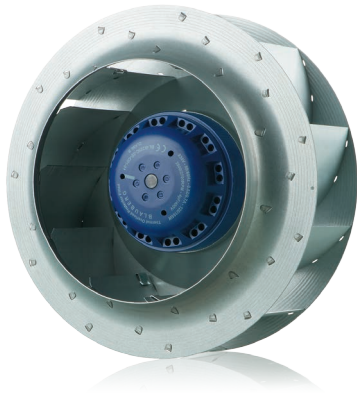
Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 225 mm)



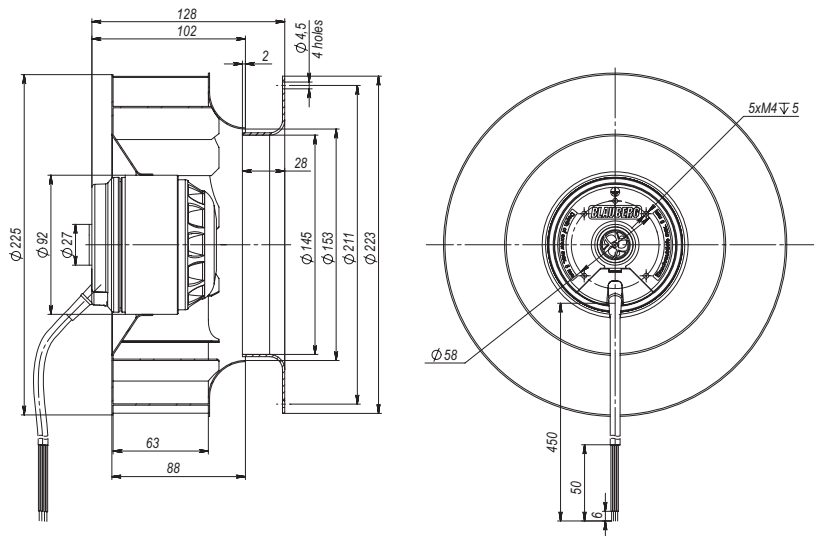
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



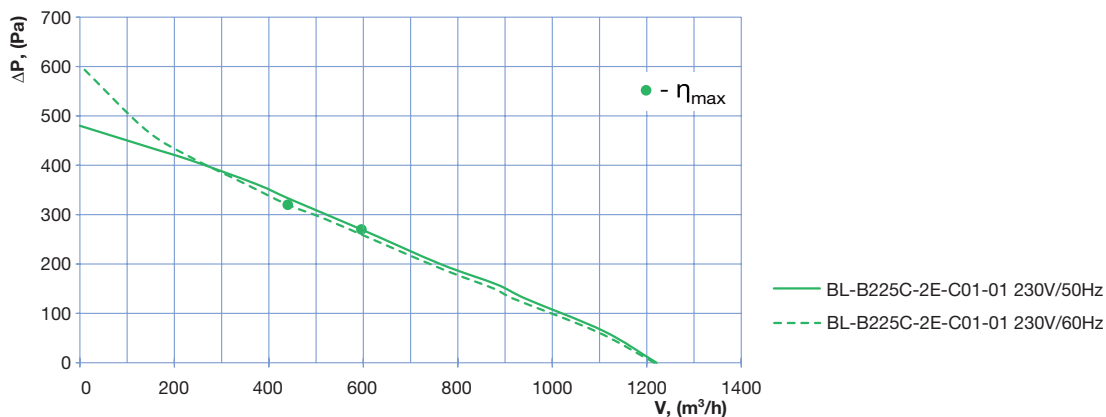
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B225C-2E-C01-01	230	50	2350	153	0.66	70	-25°C...+50°C	4/450	A
		60	2240	195	0.85	71	-25°C...+50°C	4/450	

Overall dimensions



Performance curves





- Impeller material: PA plastic + 20% 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

AC

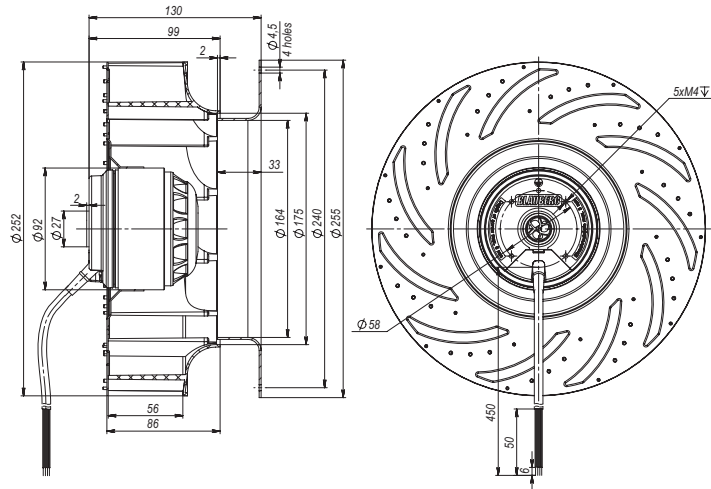
EC



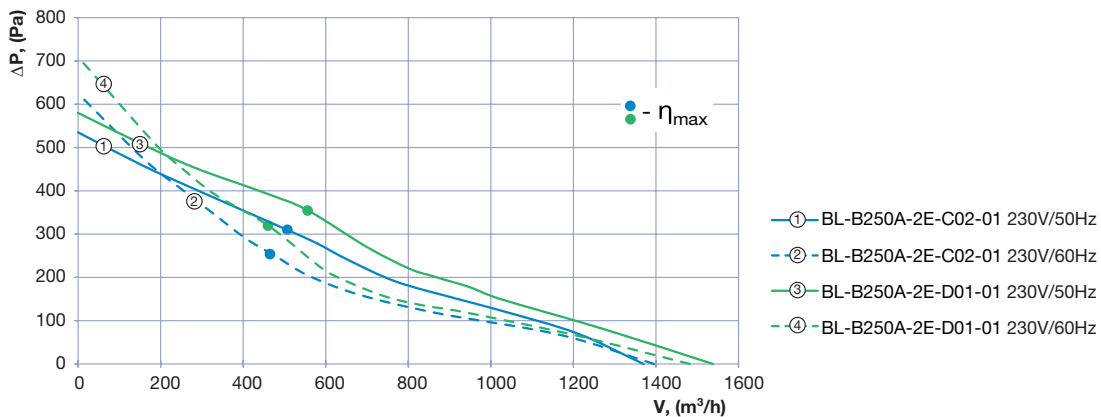
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B250A-2E-C02-01	230	50	2200	160	0.7	70	-25°C...+50°C	4/450	A
		60	2000	195	0.85	69			
BL-B250A-2E-D01-01	230	50	2330	195	0.85	72	-25°C...+40°C	4/450	A
		60	2190	244	1.06	70			

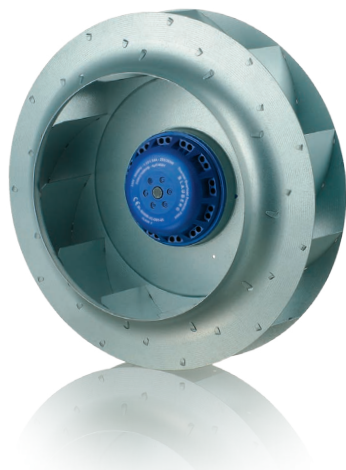
Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 280 mm)



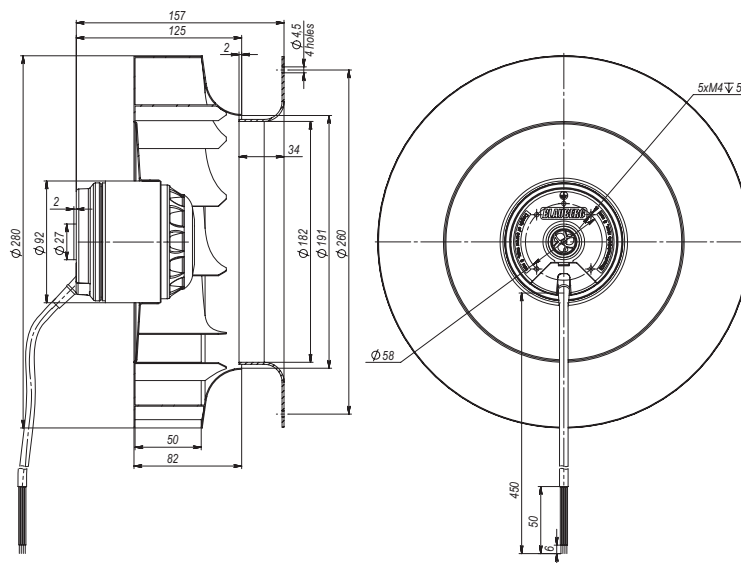
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



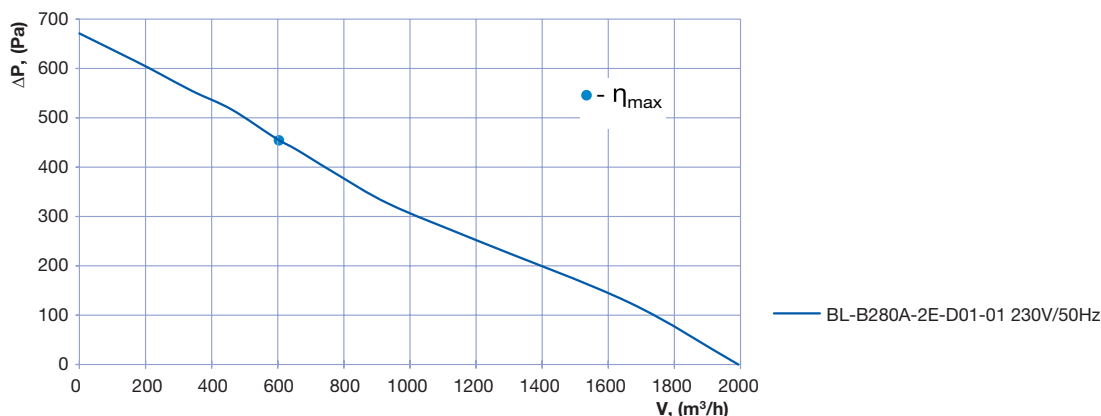
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B280A-2E-D01-01	230	50	2325	305	1.33	78	-25°C...+40°C	6/450	A

Overall dimensions



Performance curves



AC centrifugal fan (backward curved $\varnothing 310$ mm)



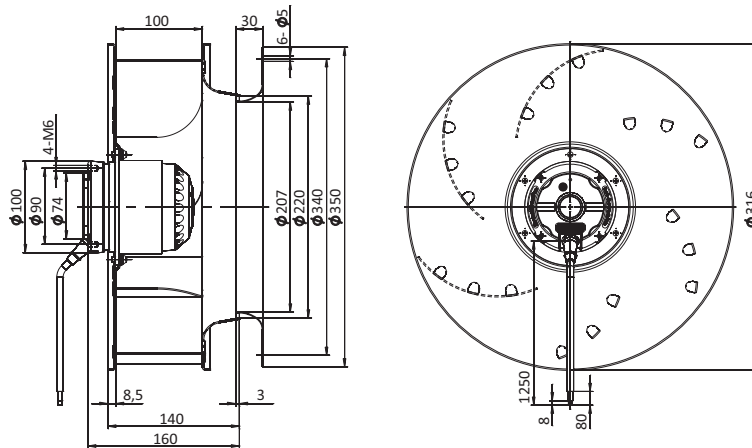
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



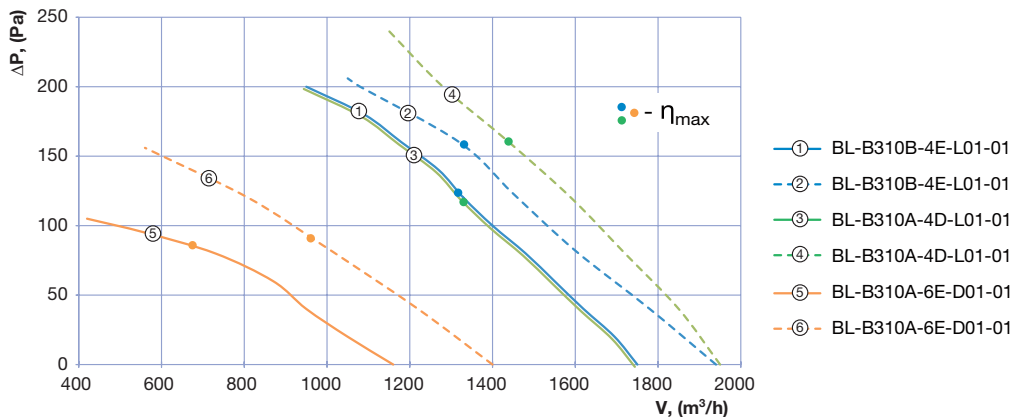
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B310B-4E-L01-01	230	50	1370	140	0.68	61	-25°C...+40°C	4.0/450	A
		60	1500	190	0.82	65			
BL-B310A-6E-L01-01	230	50	960	77	0.35	53	-25°C...+40°C	3.0/450	A
		60	1500	190	0.82	65		4.0/450	
BL-B310A-4D-L01-01	400	50	1400	150	0,39	62	-25°C...+40°C	-	B
		60	1560	185	0,35	64			

Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 355 mm)

AC

EC



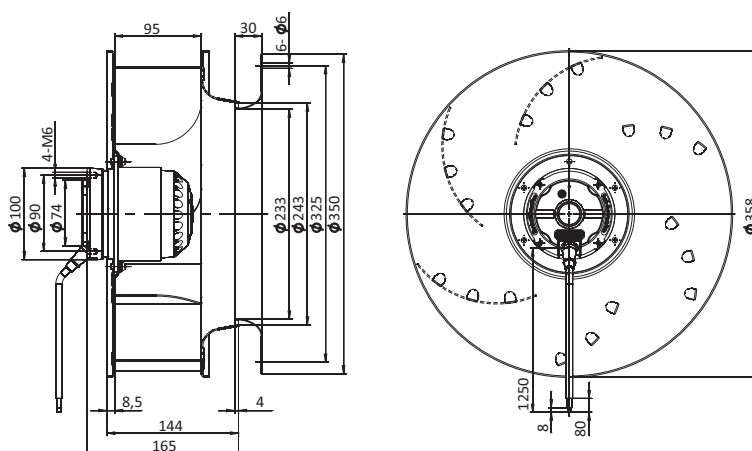
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



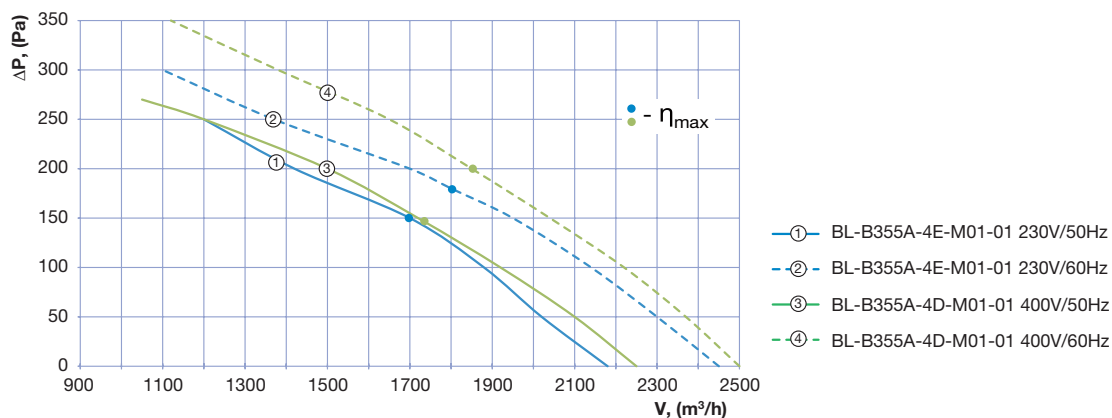
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B355A-4E-M01-01	230	50	1360	220	1	64	-25°C...+40°C	6.0/450	A
		60	1450	310	1,38	68			
BL-B355A-4D-M01-01	400	50	1380	220	0,47	65	-25°C...+40°C	-	B
		60	1500	310	0,48	67			

Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 400 mm)



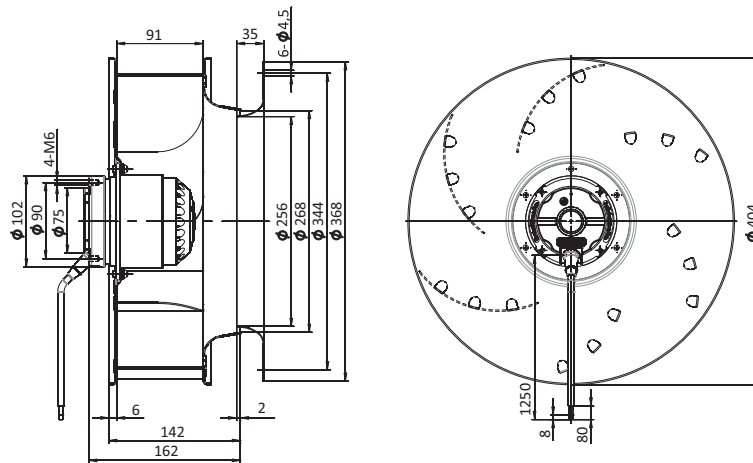
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



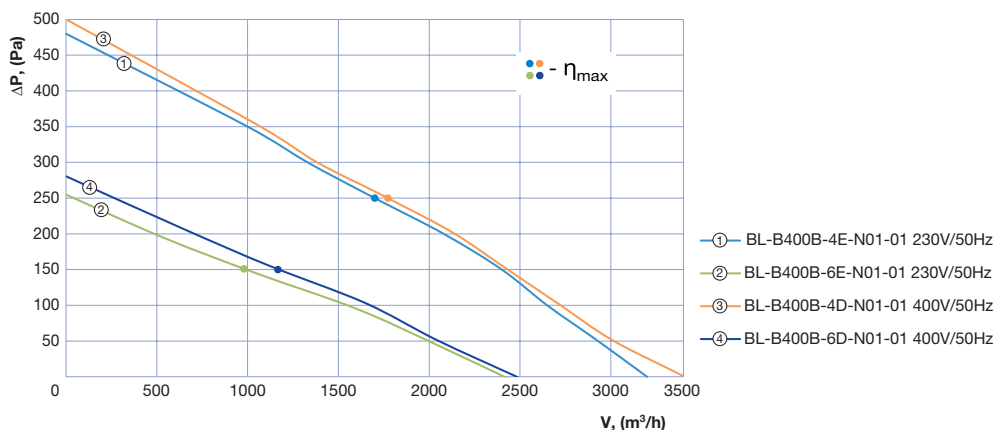
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor, μ F/VDB	Electrical connection
BL-B400B-4E-N01-01	230	50	1350	300	1,22	67	-25°C...+40°C	8.0/450	A
BL-B400B-6E-N01-01	230	50	920	120	0,53	60	-25°C...+40°C	4.0/450	A
BL-B400B-4D-N01-01	400	50	1350	300	1	66	-25°C...+40°C	-	B1
		50	1370	230	0,53	66	-25°C...+40°C	-	B2
BL-B400B-6D-N01-01	230	50	900	135	1,26	50	-25°C...+40°C	-	B1
	400	50	900	135	0,73	50	-25°C...+40°C	-	B2

Overall dimensions



Performance curves



AC

EC



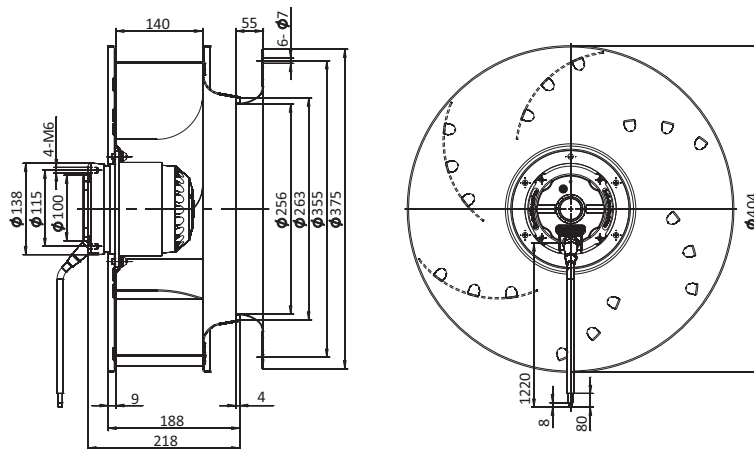
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



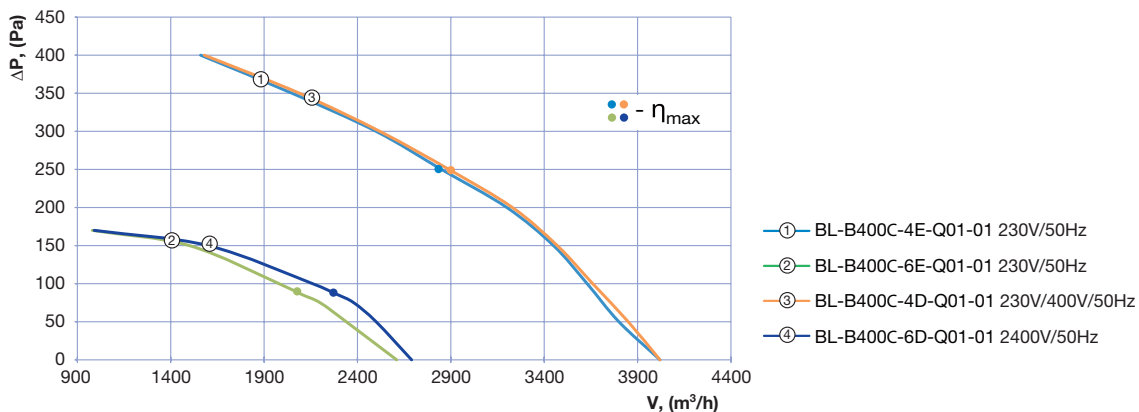
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B400C-4E-Q01-01	230	50	1350	560	2,46	64	-25°C...+40°C	10.0/450	A
BL-B400C-6E-Q01-01	230	50	920	180	0,83	50	-25°C...+40°C	5.0/450	A
BL-B400C-4D-Q01-01	230	50	1350	540	1	66	-25°C...+40°C	-	B1
	400	50	1370	350	0,53	66	-25°C...+40°C	-	B2
BL-B400C-6D-Q01-01	230	50	900	250	1,26	50	-25°C...+40°C	-	B1
	400	50	900	250	0,73	50	-25°C...+40°C	-	B2

Overall dimensions



Performance curves





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

AC

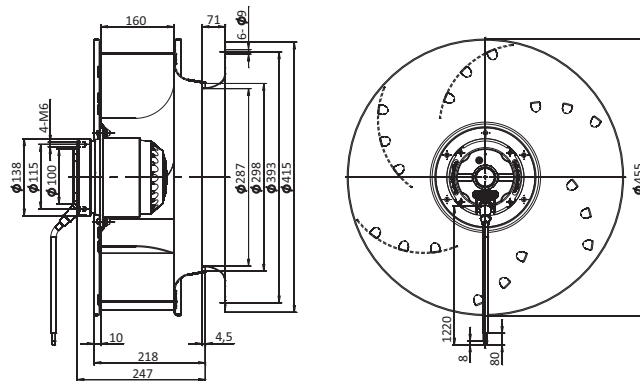
EC



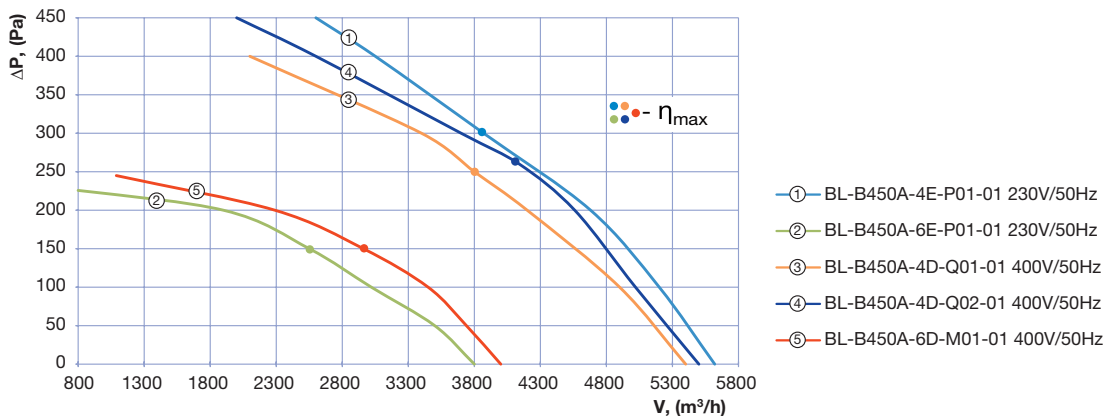
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B450A-4E-P01-01	230	50	1340	830	4,1	74	-25°C...+40°C	14.0/450	A
BL-B450A-6E-P01-01	230	50	900	300	1.4	60	-25°C...+40°C	10.0/450	A
BL-B450A-4D-Q01-01	400	50	1280	690	1,26	74	-25°C...+40°C	-	B1
	400	50	1080	350	0,58	74	-25°C...+40°C	-	B2
BL-B450A-4D-Q02-01	230	50	1260	810	2,35	74	-25°C...+40°C	-	B1
	400	50	1260	810	1,36	74	-25°C...+40°C	-	B2
BL-B450A-4D-Q03-01	400	50	940	330	0,9	60	-25°C...+40°C	-	B1
BL-B450A-6D-M01-01	400	50	940	330	0,9	60	-25°C...+40°C	-	B1
	400	50	940	330	0,9	60	-25°C...+40°C	-	B2

Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 500 mm)



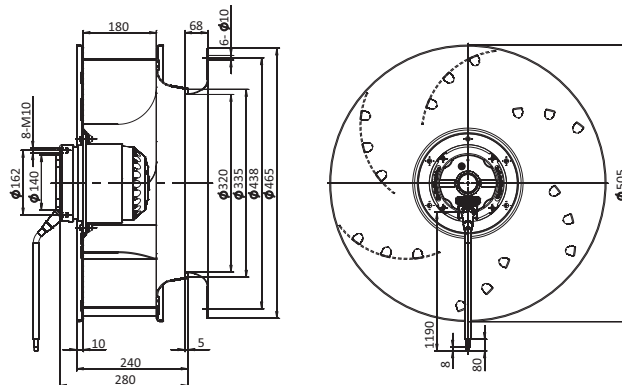
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



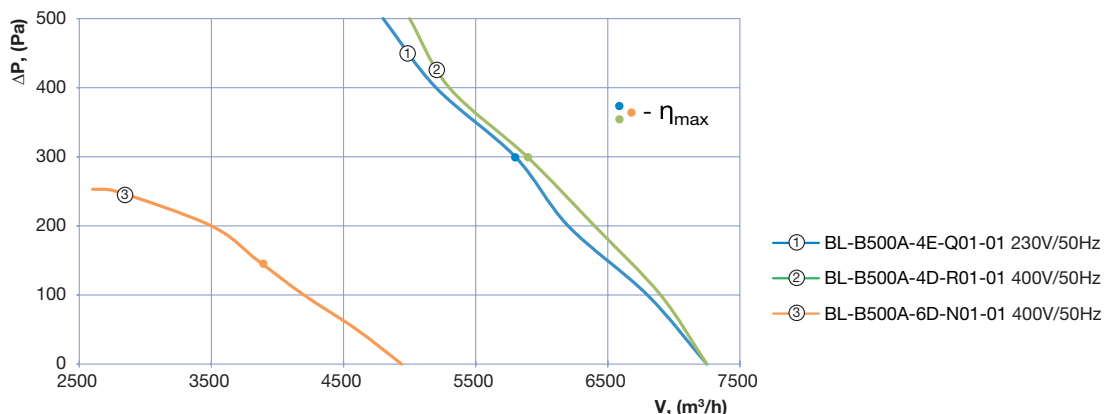
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B500A-4E-Q01-01	230	50	1380	1550	6,8	77	-25°C...+40°C	17/450	A
BL-B500A-4D-R01-01	400	50	1330	1560	2,9	77	-25°C...+40°C	-	B1
	400	50	1030	1100	1,6	77	-25°C...+40°C	-	B2
BL-B500A-6D-N01-01	230	50	900	650	3	65	-25°C...+40°C	-	B1
	400	50	900	650	1,45	65	-25°C...+40°C	-	B2

Overall dimensions



Performance curves





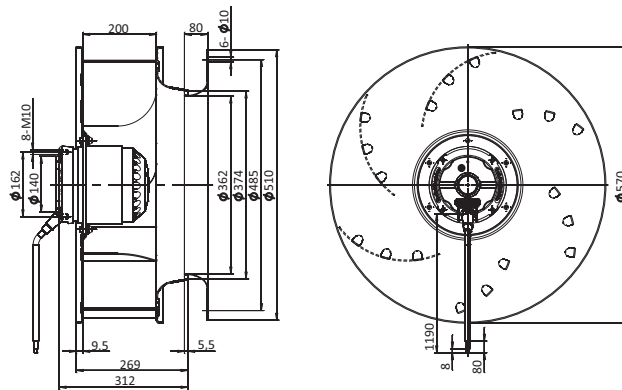
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



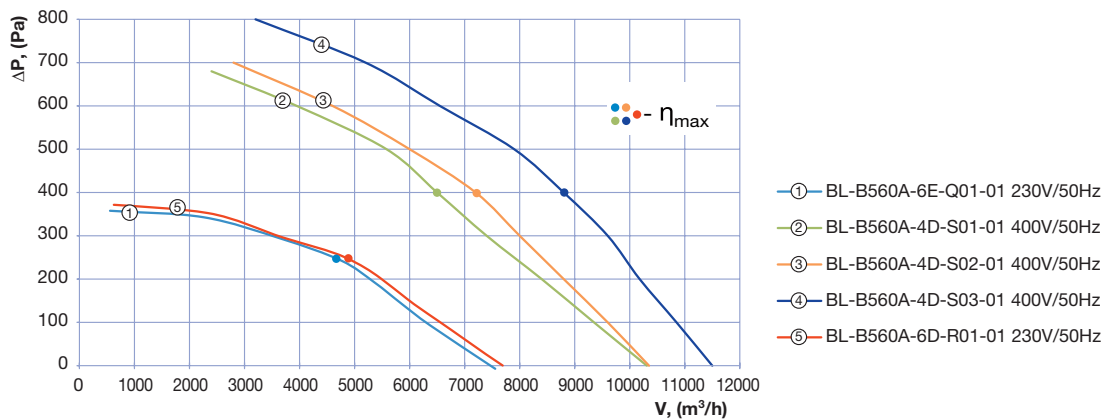
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-B560A-6E-Q01-01	230	50	900	700	3,1	69	-25°C...+40°C	19/450	A
BL-B560A-4D-S01-01	400	50	1250	1800	3,2	79	-25°C...+40°C	-	B1
	400	50	860	960	1,8	79	-25°C...+40°C	-	B2
BL-B560A-4D-S02-01	230	50	1250	2200	6,5	79	-25°C...+40°C	-	B1
	400	50	1250	2200	3,7	79	-25°C...+40°C	-	B2
BL-B560A-4D-S03-01	400	50	1325	2300	3,7	81	-25°C...+40°C	-	B1
BL-B560A-6D-R01-01	230	50	870	780	2,69	69	-25°C...+40°C	-	B1
	400	50	870	780	1,55	69	-25°C...+40°C	-	B2

Overall dimensions



Performance curves



AC centrifugal fan (backward curved \varnothing 630 mm)

AC

EC



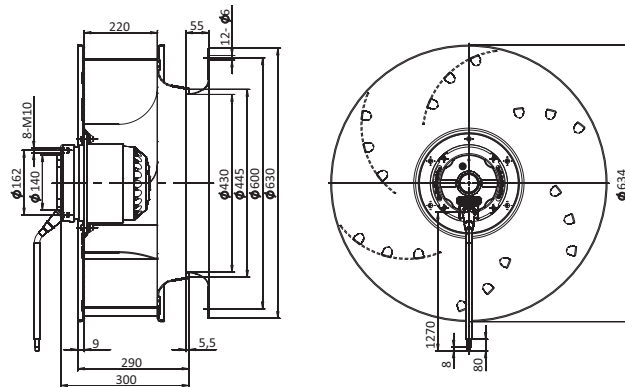
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



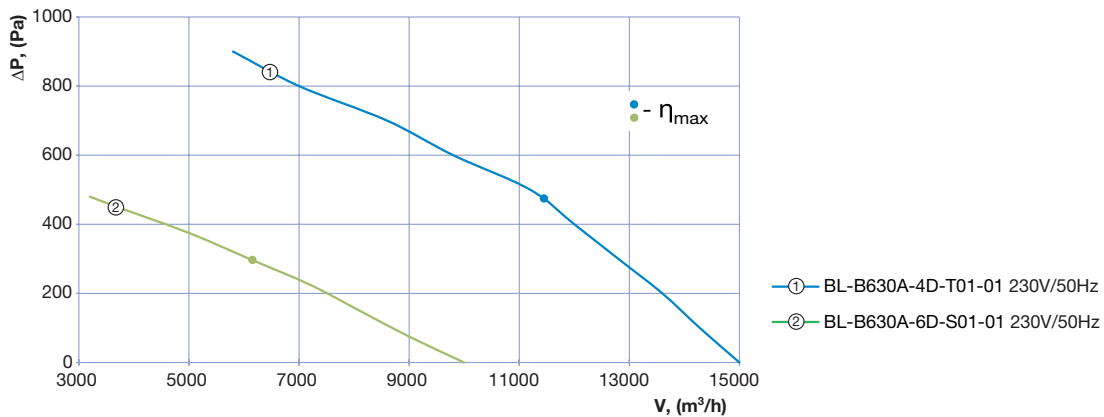
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B630A-4D-T01-01	230	50	1370	4300	11,8	81	-25°C...+40°C	B1
	400	50	1370	4300	6,8	81	-25°C...+40°C	B2
BL-B630A-6D-S01-01	230	50	900	1200	4,68	76	-25°C...+40°C	B1
	400	50	900	1200	2,7	76	-25°C...+40°C	B2

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 133 mm)



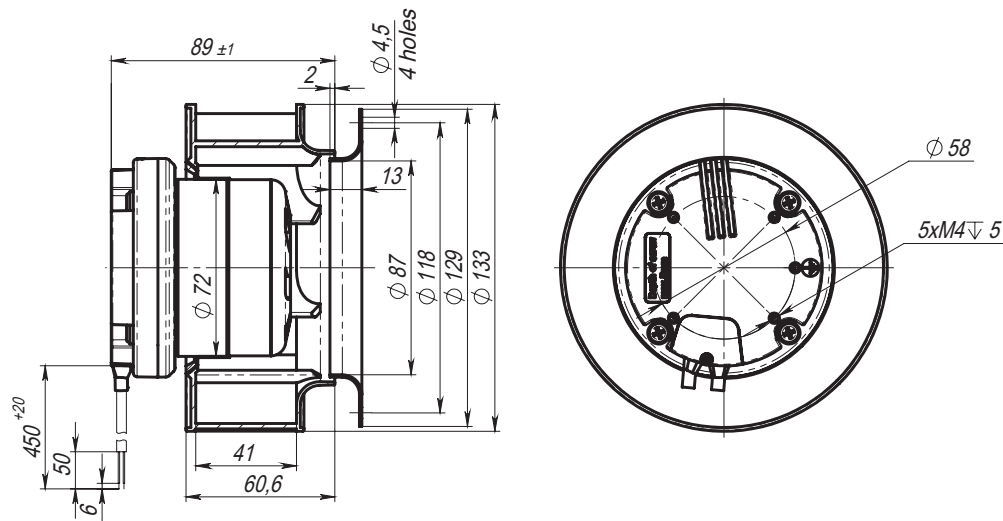
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



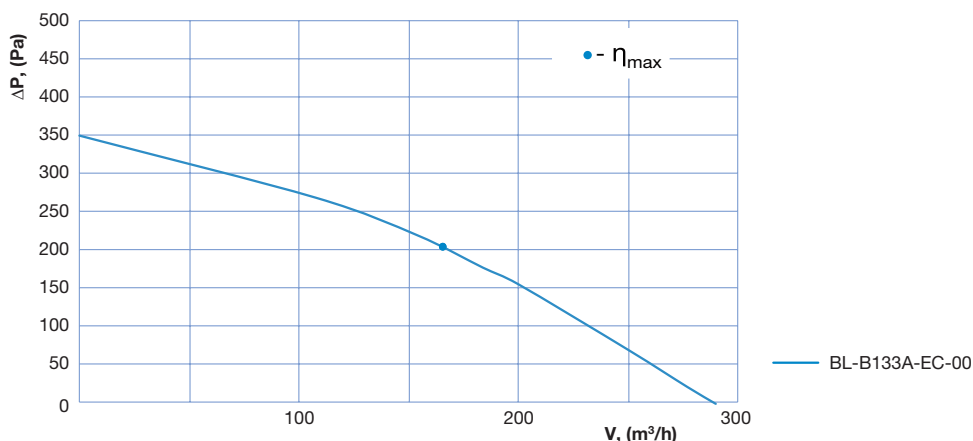
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B133A-EC-00	230	50/60	3700.00	56.00	0,43	75.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 175 mm)



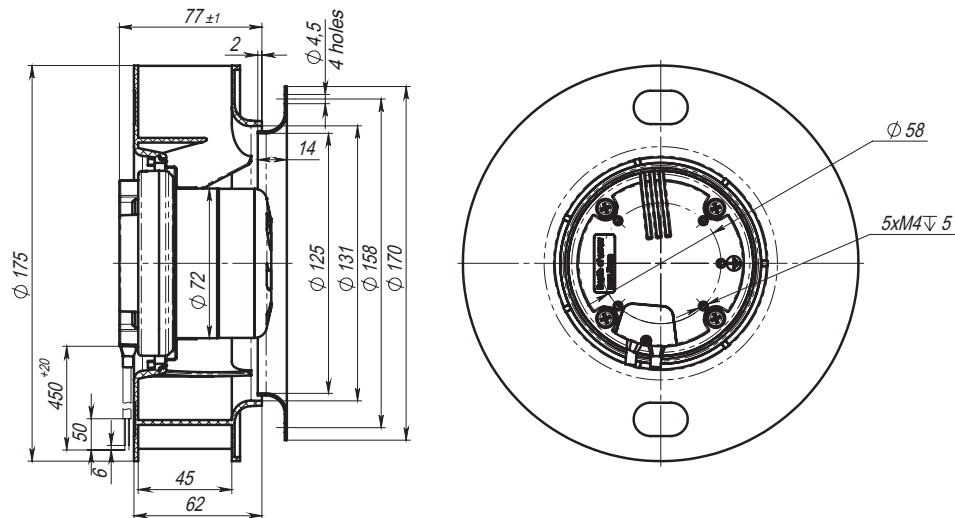
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



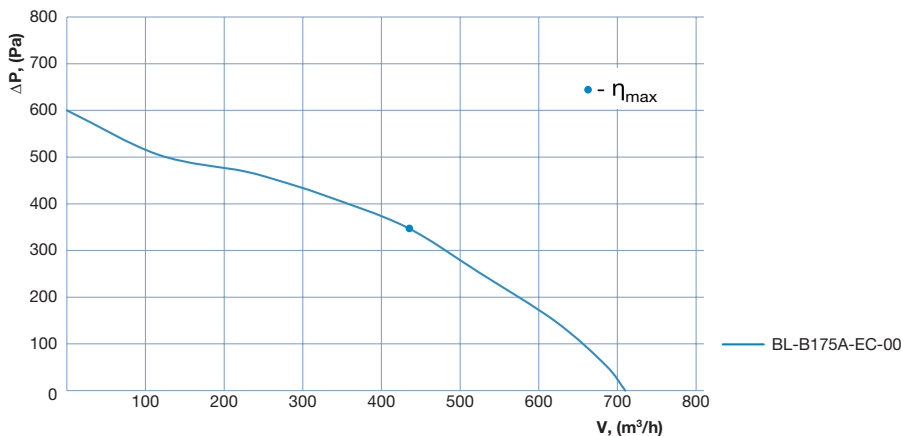
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B175A-EC-00	230	50/60	3690,00	84,00	0,63	76,00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 190 mm)



- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% 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

AC

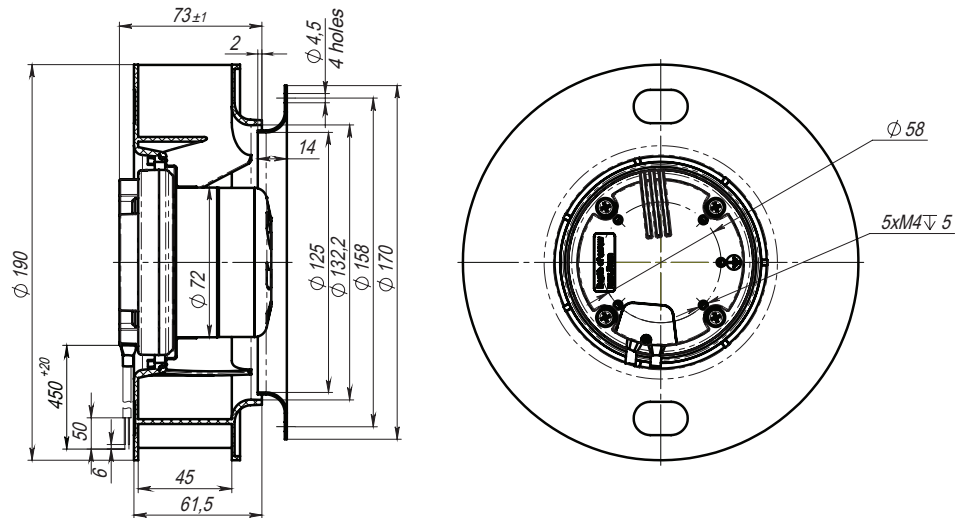
EC



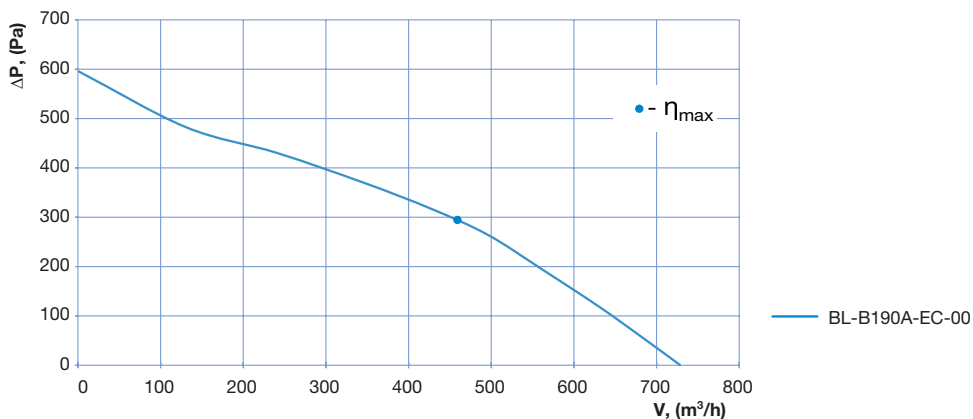
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B190A-EC-00	230	50/60	3120,00	85,00	0,64	72,00	-25°C...+40°C	E

Overall dimensions



Performance curves





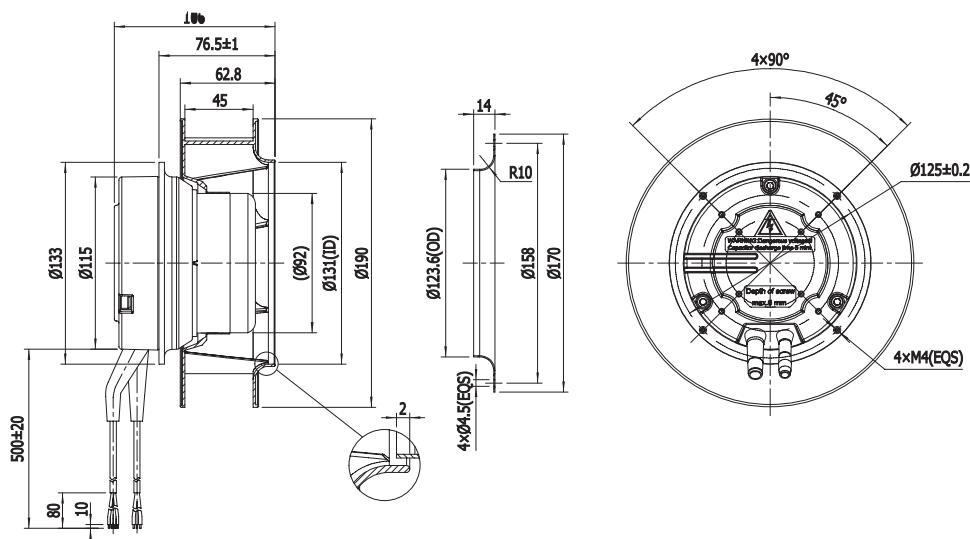
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



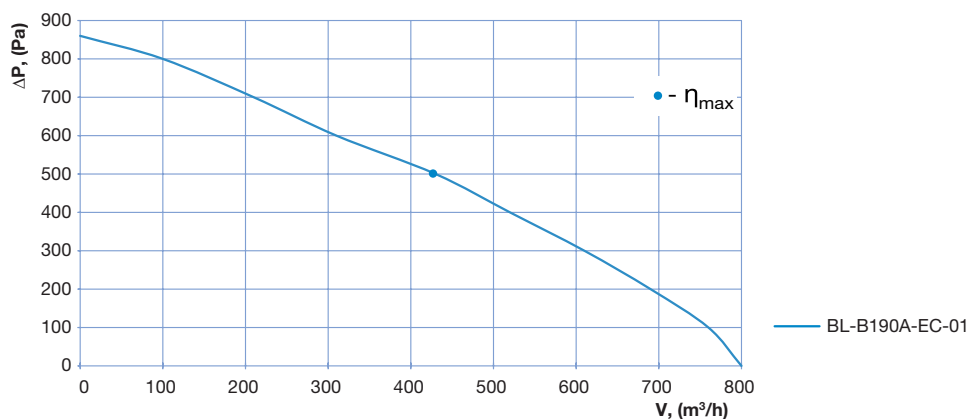
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C
BL-B190A-EC-01	230	50/60	4000.00	150.00	1.16	74.00	-25°C...+40°C

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 220 mm)



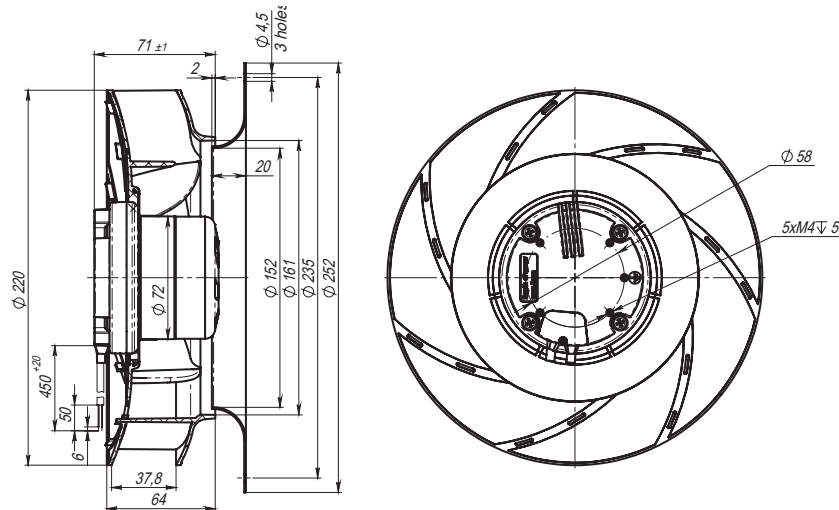
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



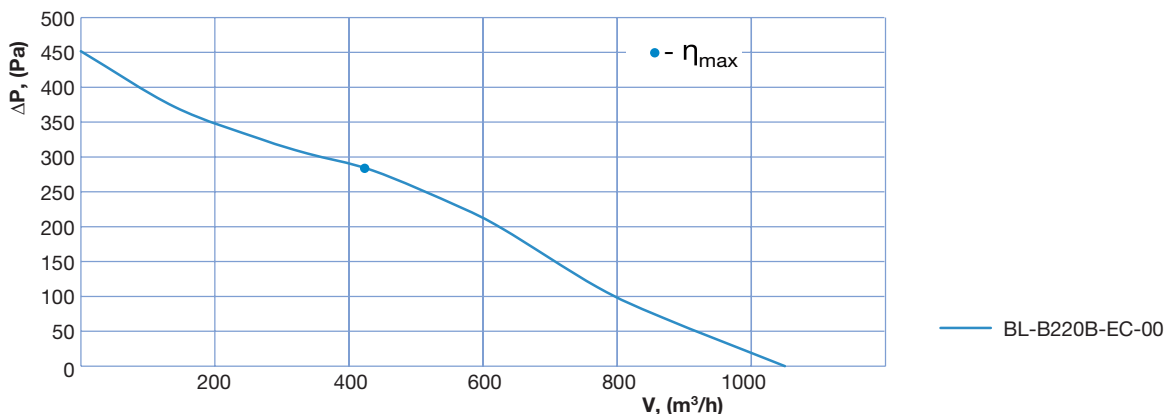
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C
BL-B220B-EC-00	230	50/60	2450,00	89,00	0,67	71,00	-25°C...+40°C

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 220 mm)



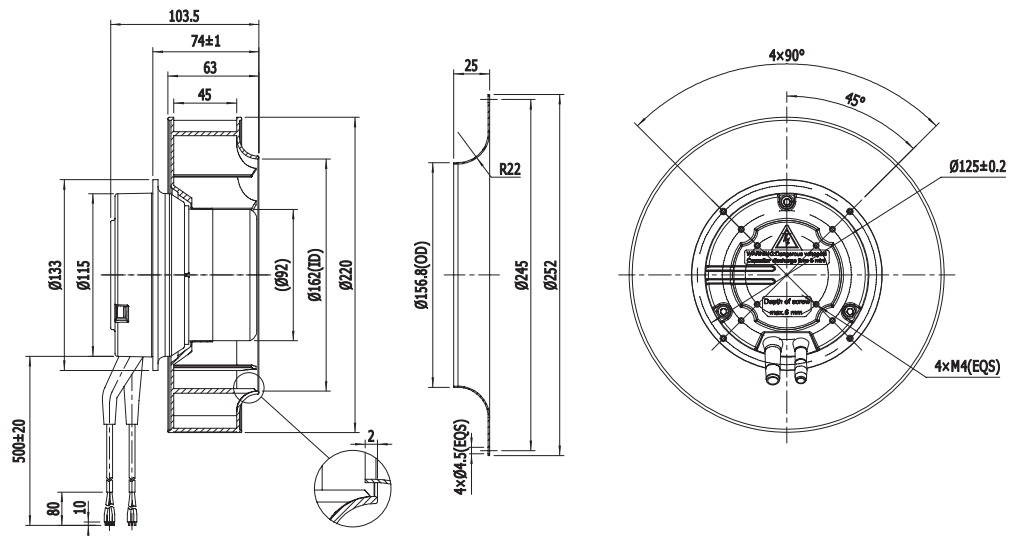
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



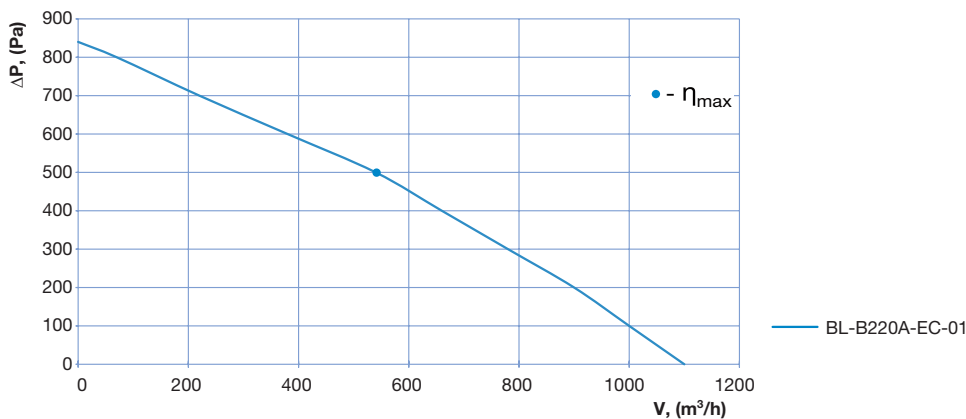
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B220A-EC-01	230	50/60	3600.00	155.00	1.18	76.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 225 mm)



- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% 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

AC

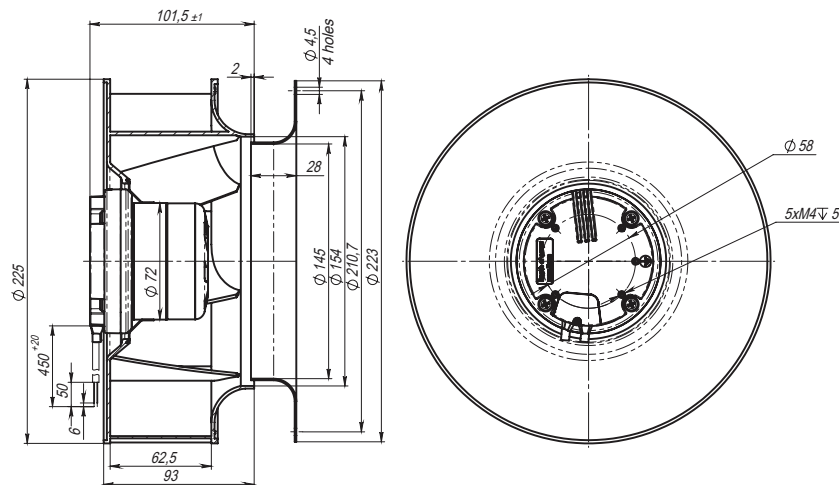
EC



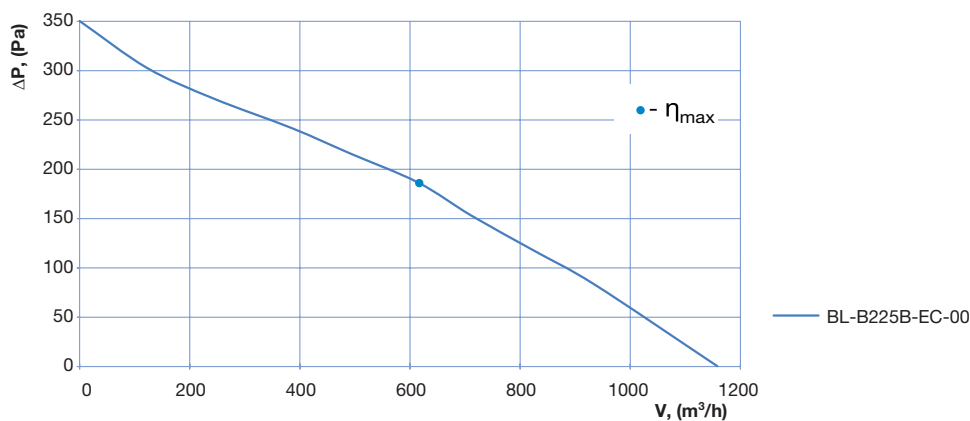
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B225B-EC-00	230	50/60	2020,00	74,00	0,55	66,00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 250 mm)



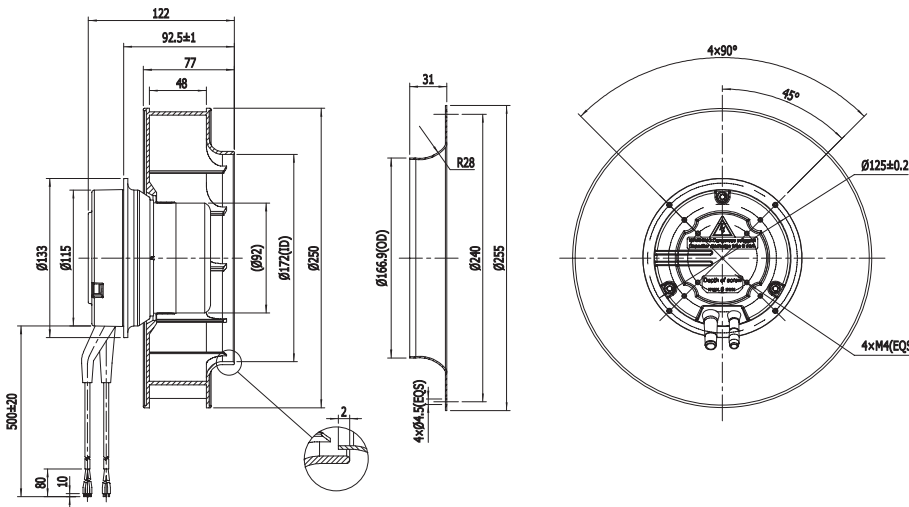
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: PA plastic + 20% glass fiber
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



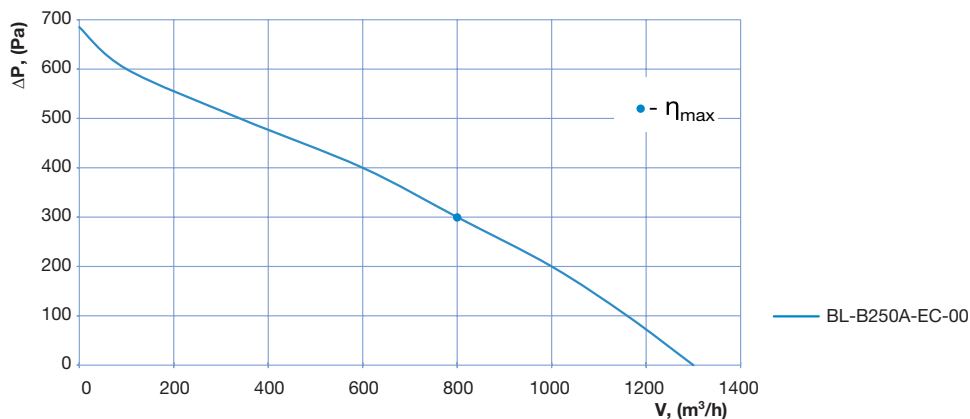
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B250A-EC-00	230	50/60	2760	123	0.9	71	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 250 mm)



- Speed Control: 0 ~ 10V DC/PWM
- 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

AC

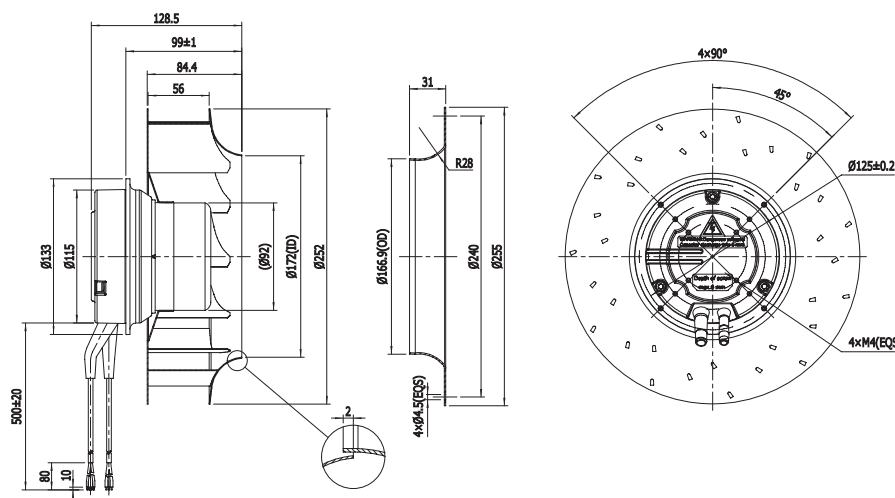
EC



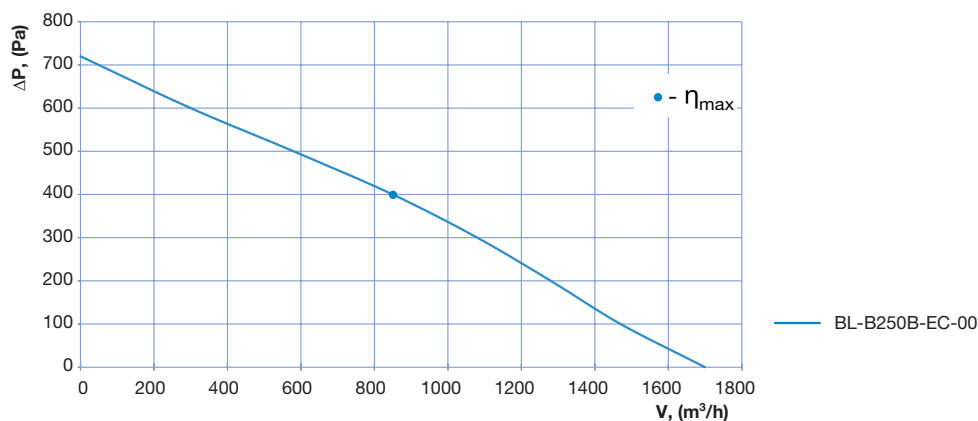
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B250B-EC-00	230	50/60	2780	155	1.13	75	-25°C...+40°C	E

Overall dimensions



Performance curves





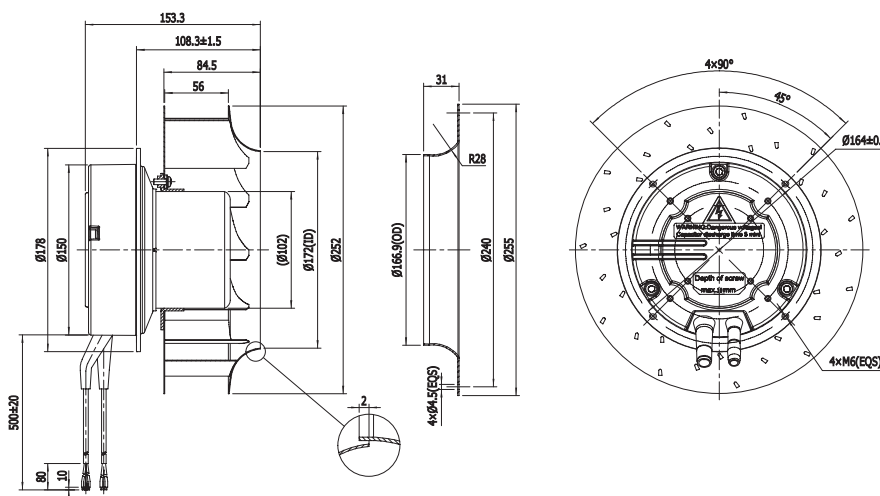
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



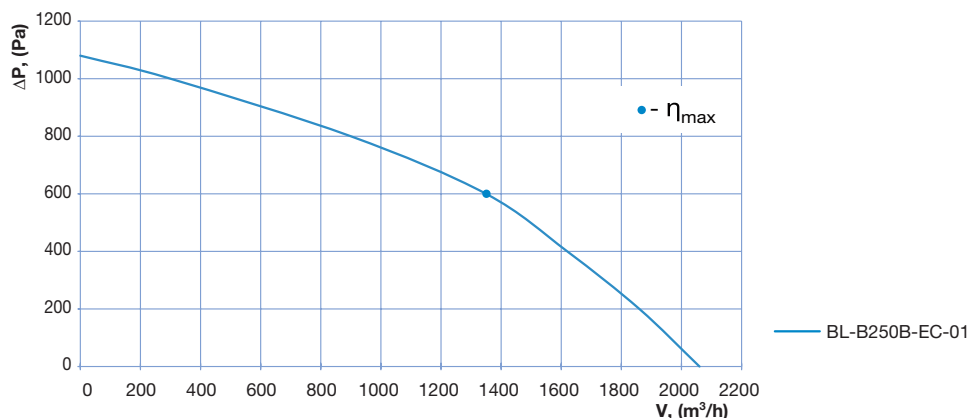
Technical data

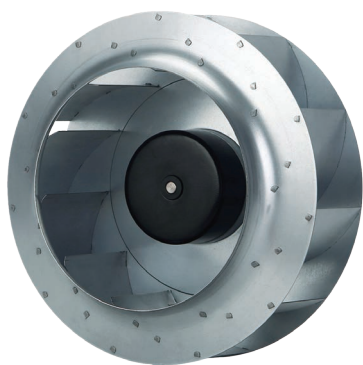
Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B250B-EC-01	230	50/60	3630	349	1.51	80	-25°C...+40°C	E

Overall dimensions



Performance curves





- Speed Control: 0 ~ 10V DC/PWM
- 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

AC

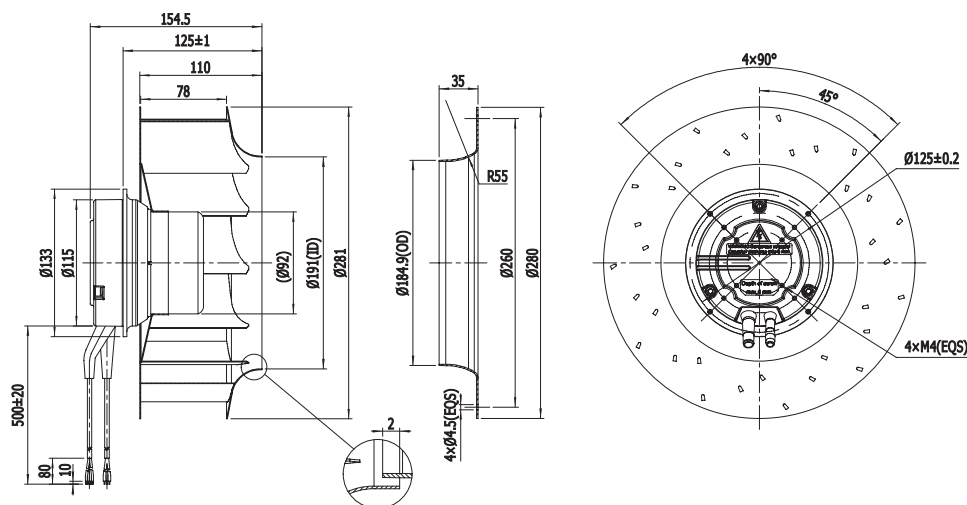
EC



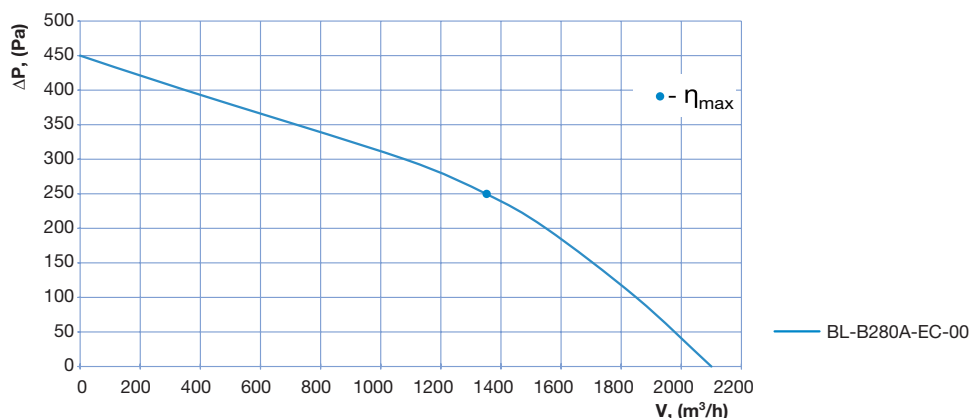
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B280A-EC-00	230	50/60	1940.00	130.00	1.02	72.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 280 mm)



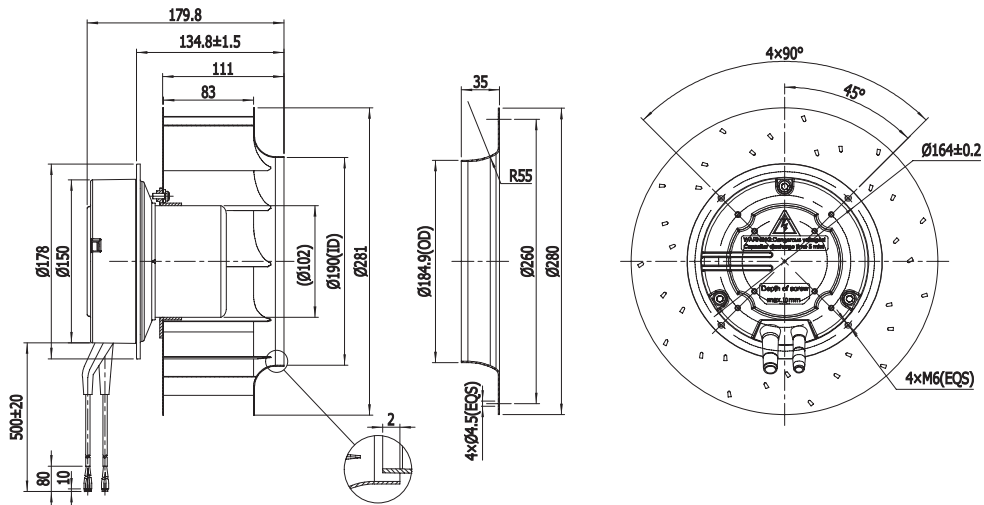
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



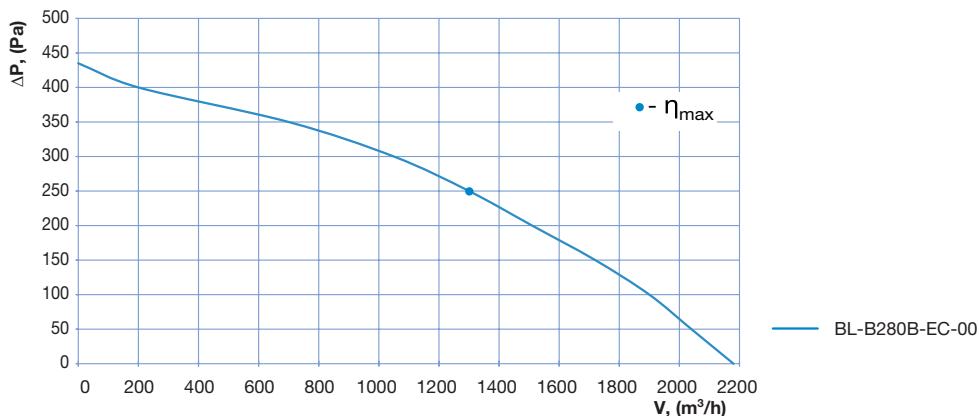
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B280B-EC-00	230	50/60	2800.00	363.00	1.58	80.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 310 mm)



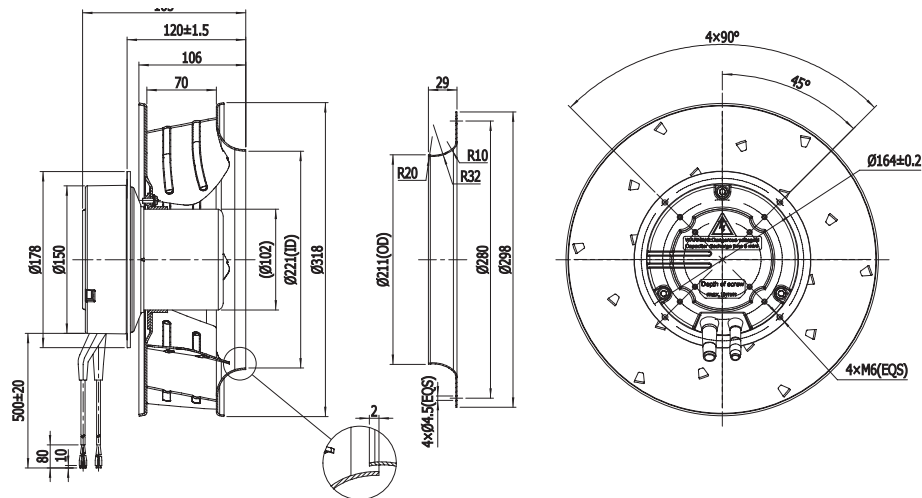
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



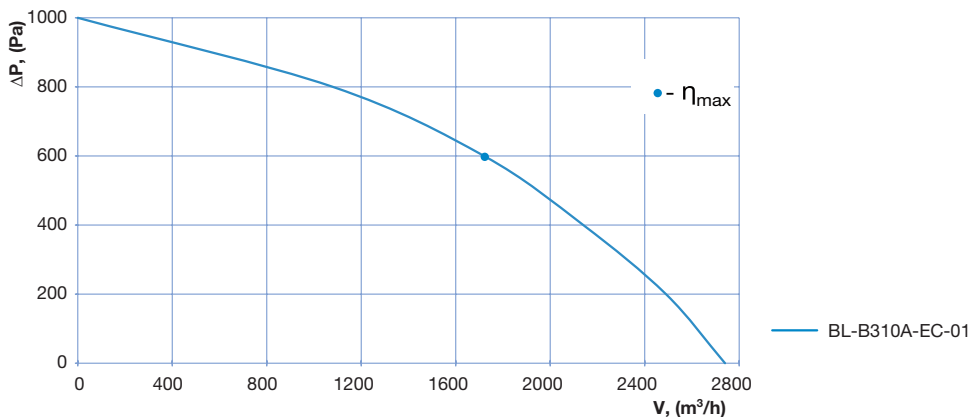
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B310A-EC-01	230	50/60	2680.00	338.00	1.50	78.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 310 mm)



- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet 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

AC

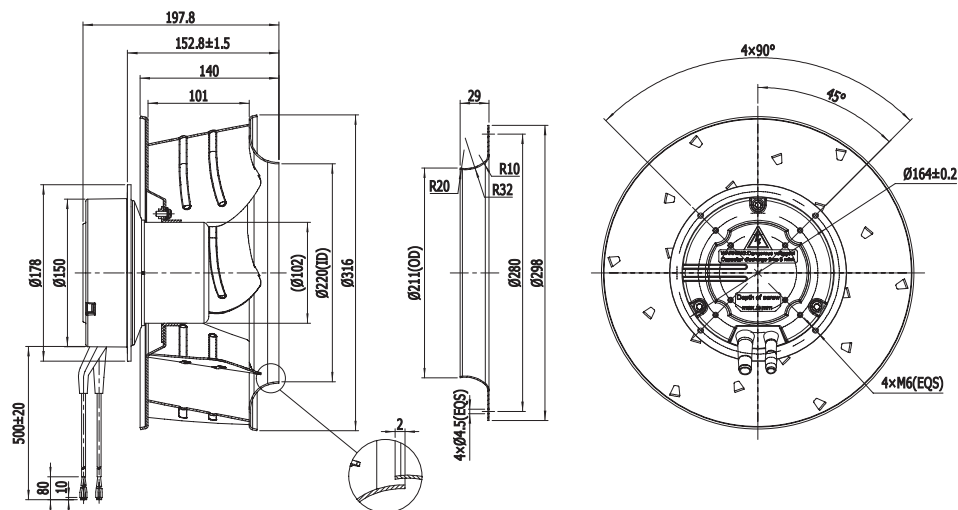
EC



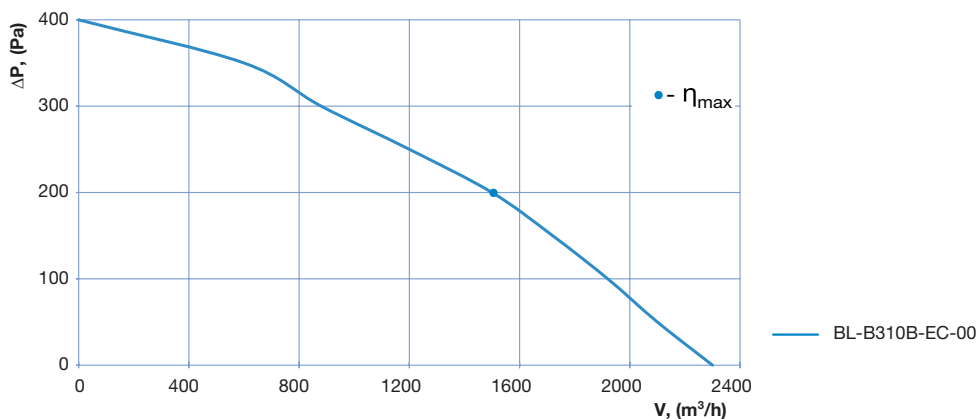
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B310B-EC-00	230	50/60	1630.00	114.00	0.93	64.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 310 mm)



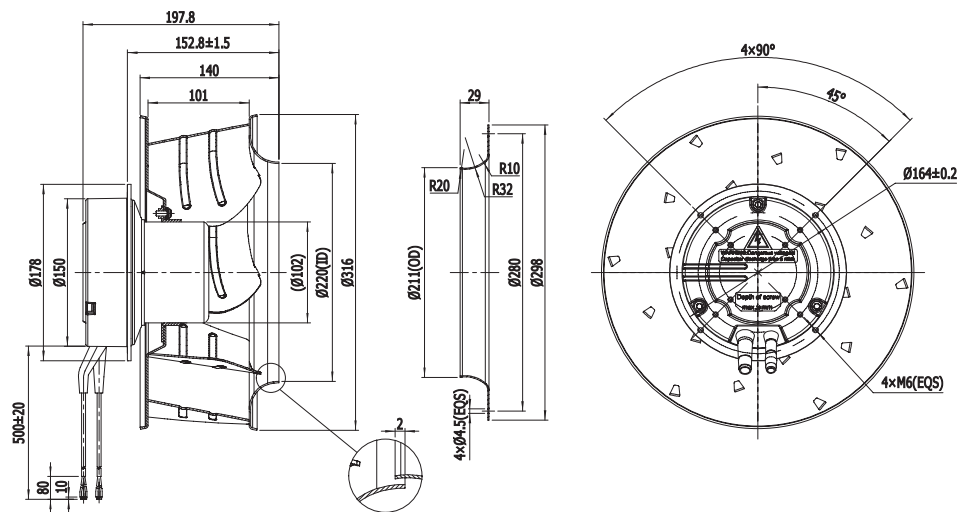
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



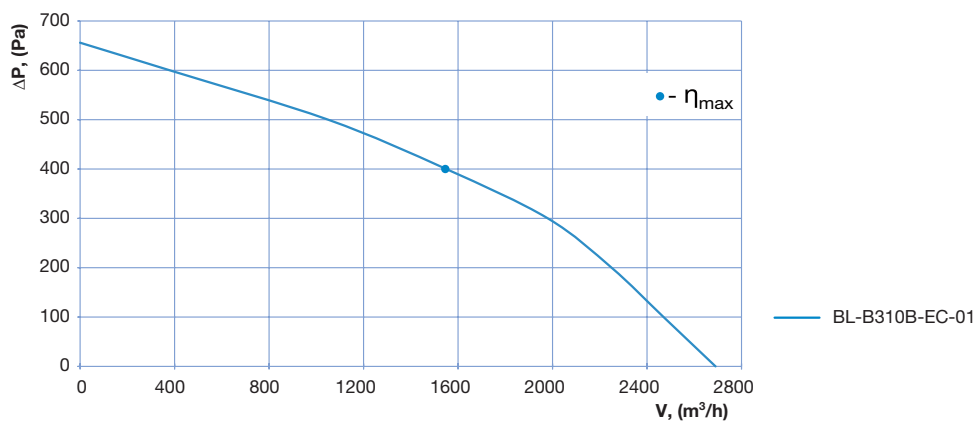
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B310B-EC-01	230	50/60	2180.00	260.00	1.14	73.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 355 mm)



- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet 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

AC

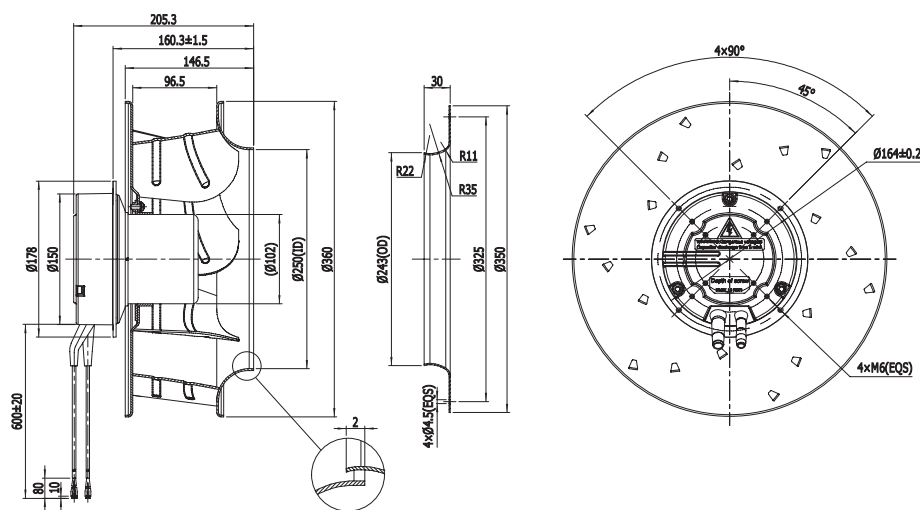
EC



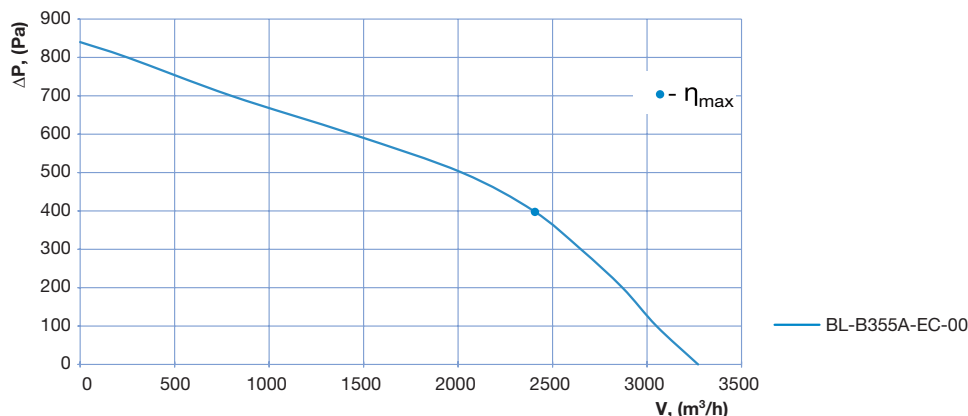
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B355A-EC-00	230	50/60	2050.00	387.00	1.65	76.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 355 mm)



- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet 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

AC

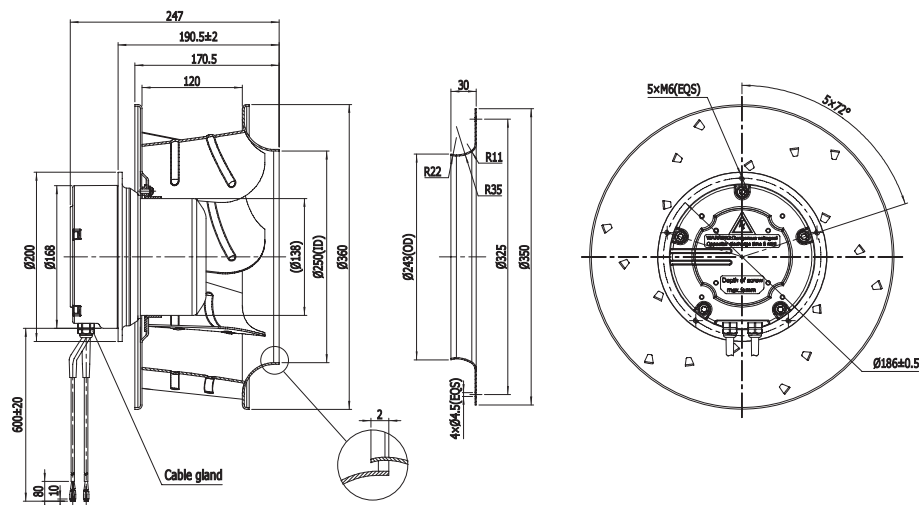
EC



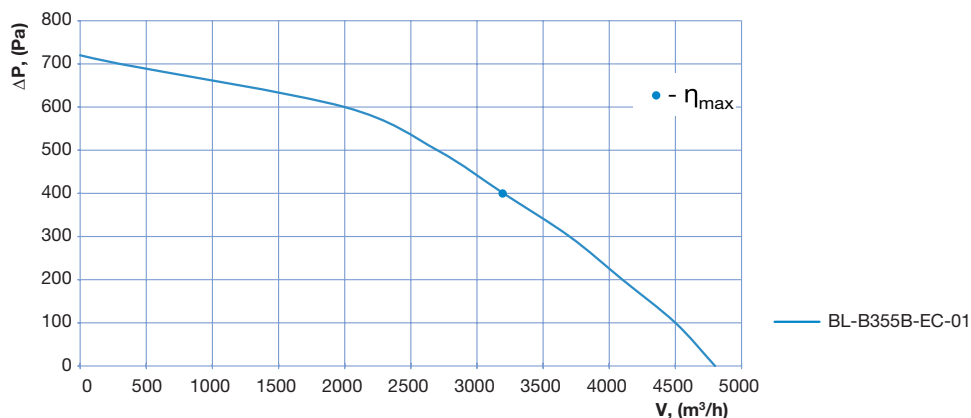
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B355B-EC-01	230	50/60	2035.00	570.00	2.60	84.00	-25°C...+40°C	E

Overall dimensions



Performance curves





- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet 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

AC

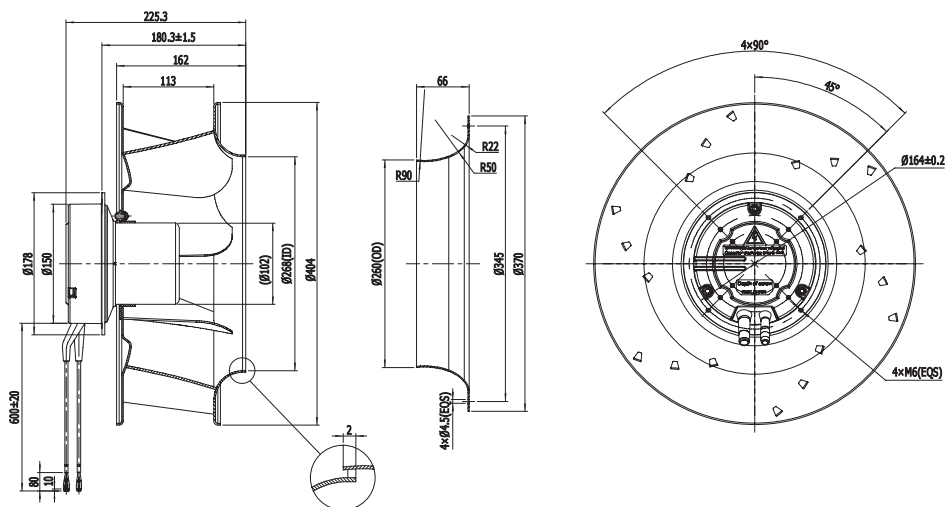
EC



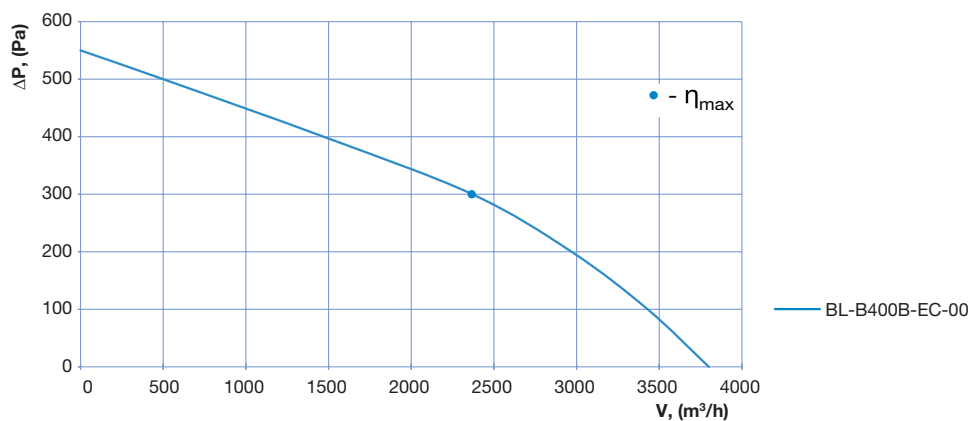
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B400B-EC-00	230	50/60	1360.00	300.00	1.30	72.00	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (backward curved \varnothing 400 mm)



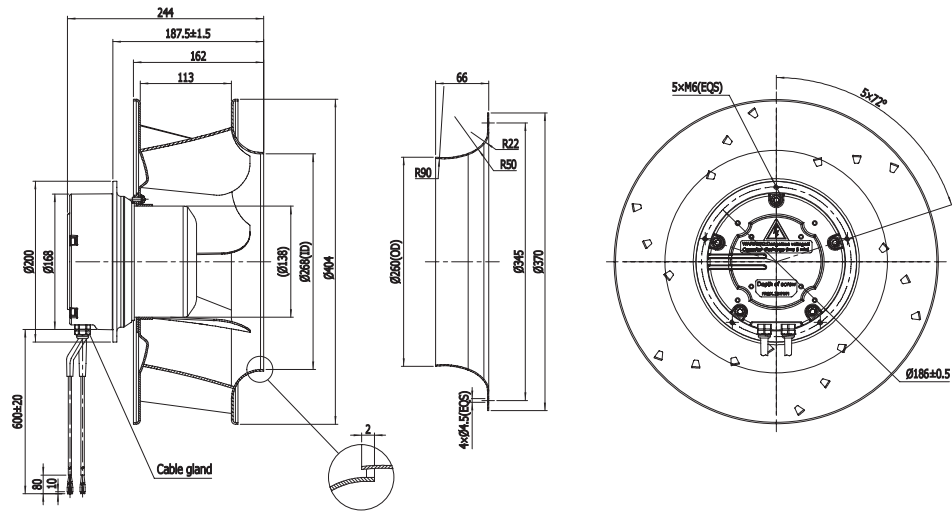
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: sheet aluminium
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



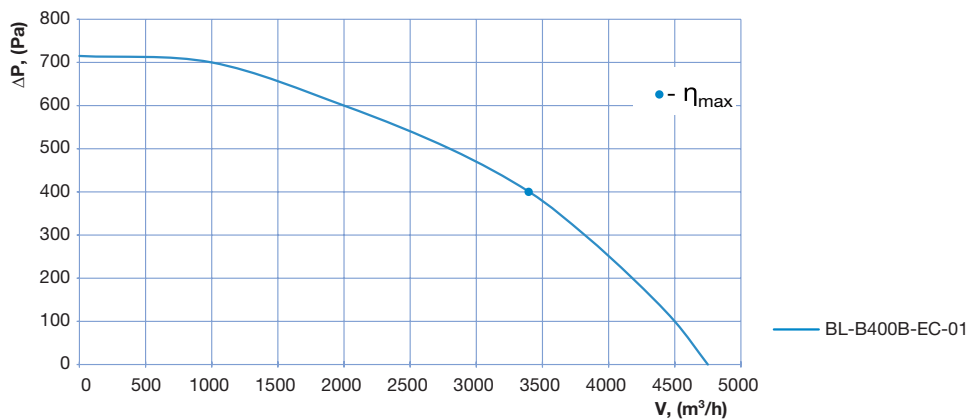
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-B400B-EC-01	230	50/60	1720.00	600.00	2.70	84.00	-25°C...+40°C	E

Overall dimensions



Performance curves



Forward curved centrifugal fans

AC

EC



AC centrifugal fan (forward curved \varnothing 120 mm)



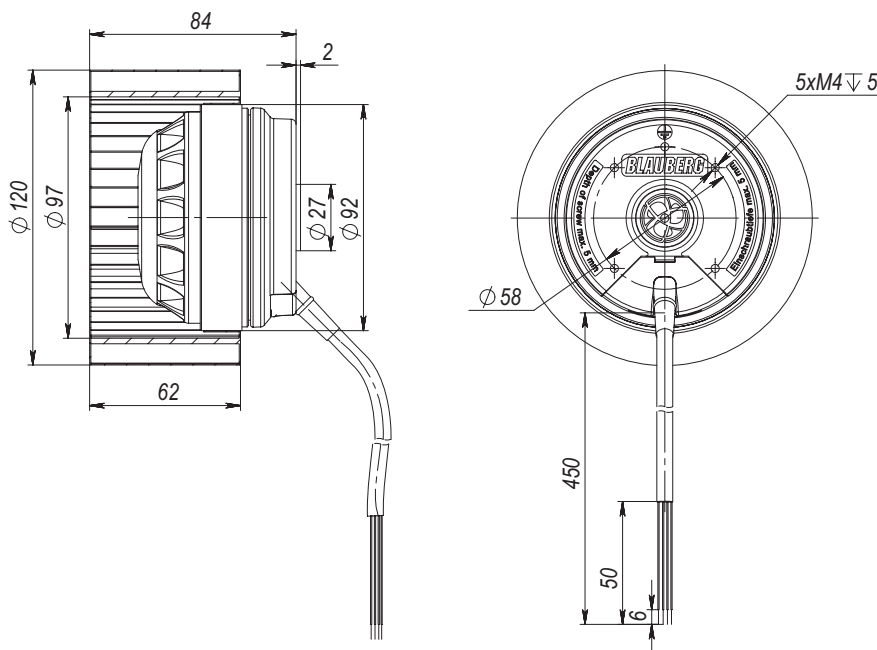
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



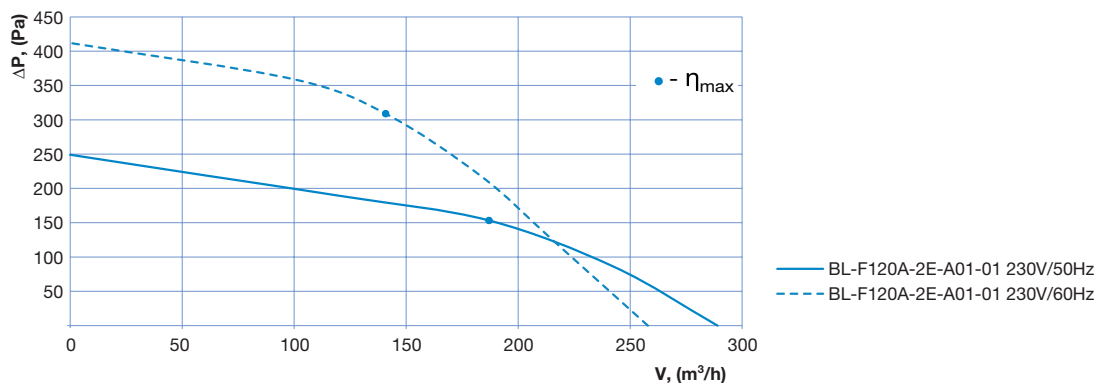
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F120A-2E-A01-01	230	50	2380	57	0.25	60	-25°C...+50°C	1.5/450	A
		60	3060	65	0.27	63	-25°C...+50°C	1.5/450	A

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 133 mm)



- 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

AC

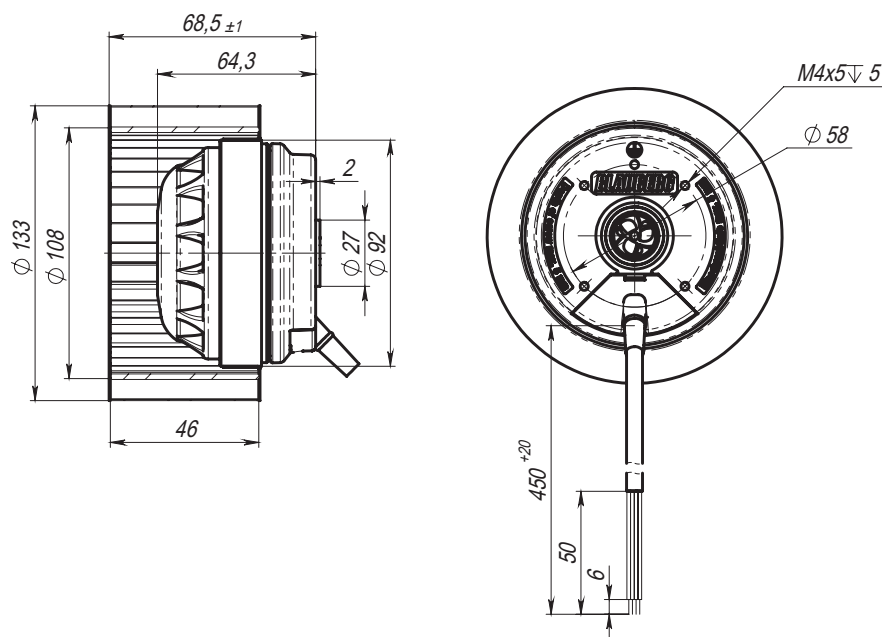
EC



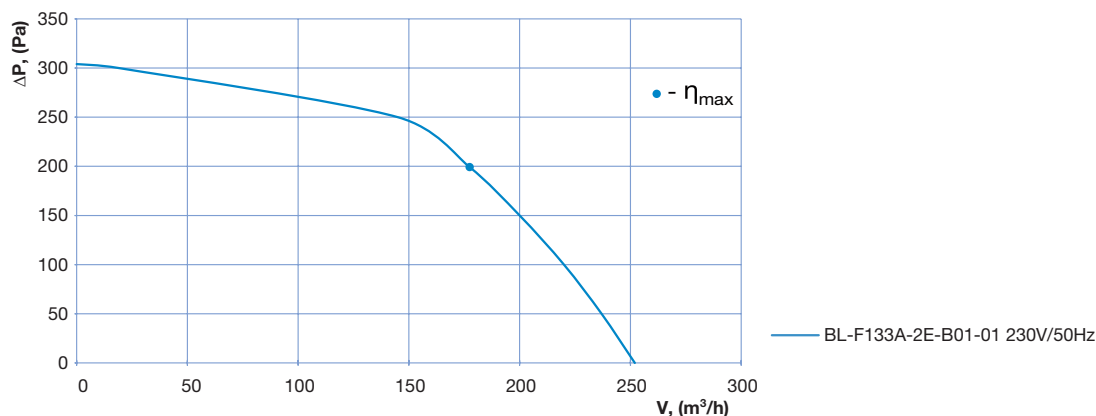
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F133A-2E-B01-01	230	50	2030	78	0,34	65	-25°C...+50°C	2.0/450	A

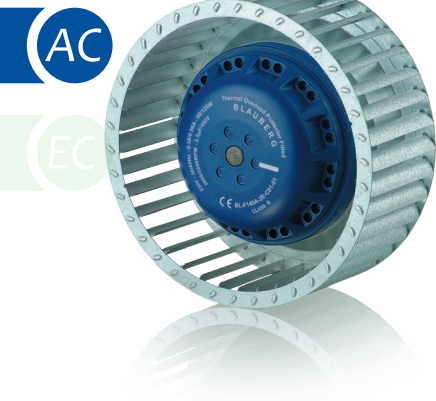
Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 140 mm)



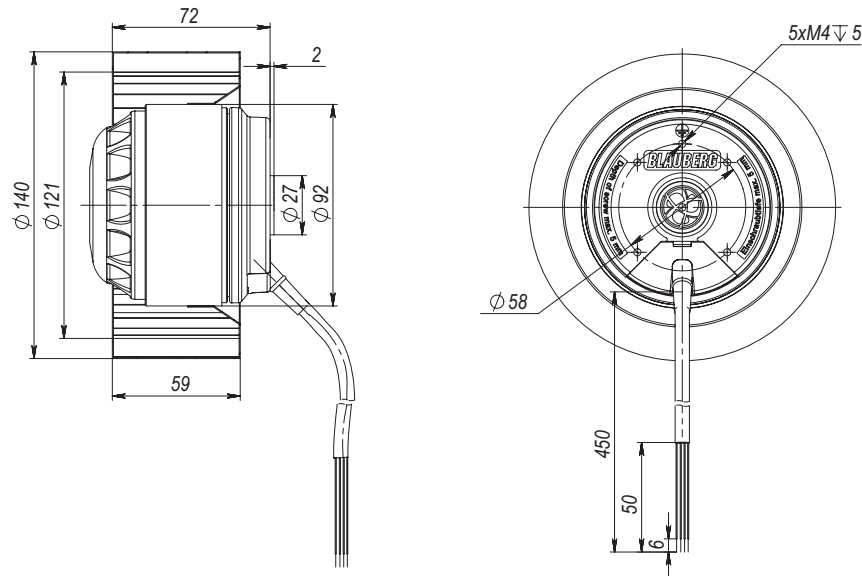
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



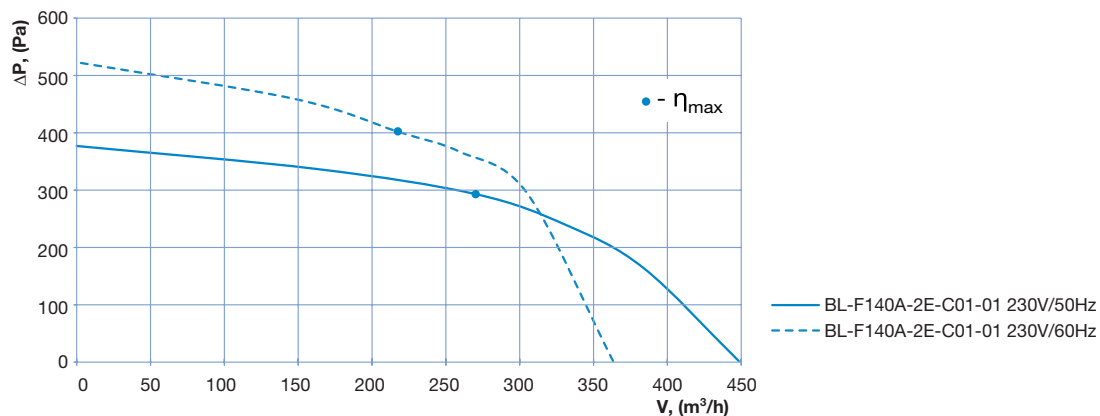
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F140A-2E-C01-01	230	50	2600	102	0.46	72	-25°C...+50°C	3.5/450	A
		60	3000	116	0.51	71	-25°C...+50°C	3.5/450	A

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 160 mm)



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

AC

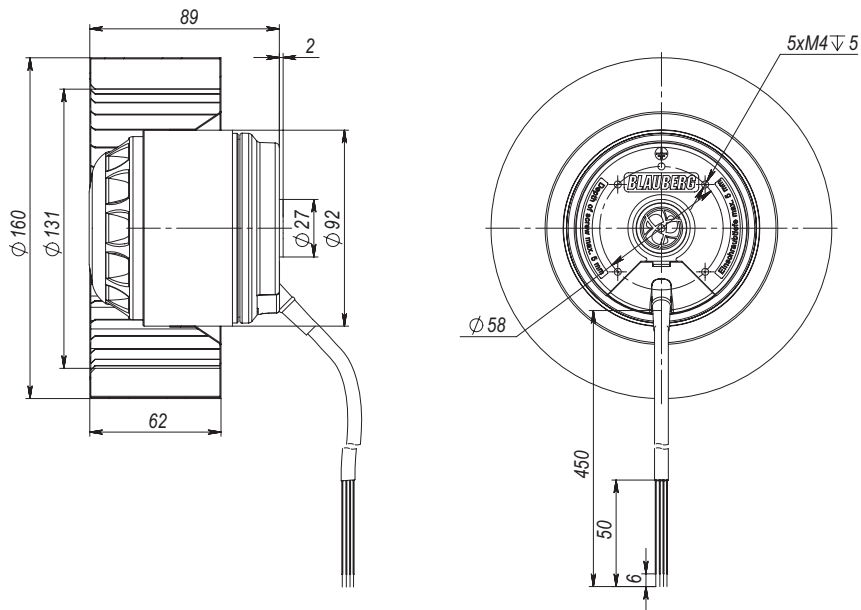
EC



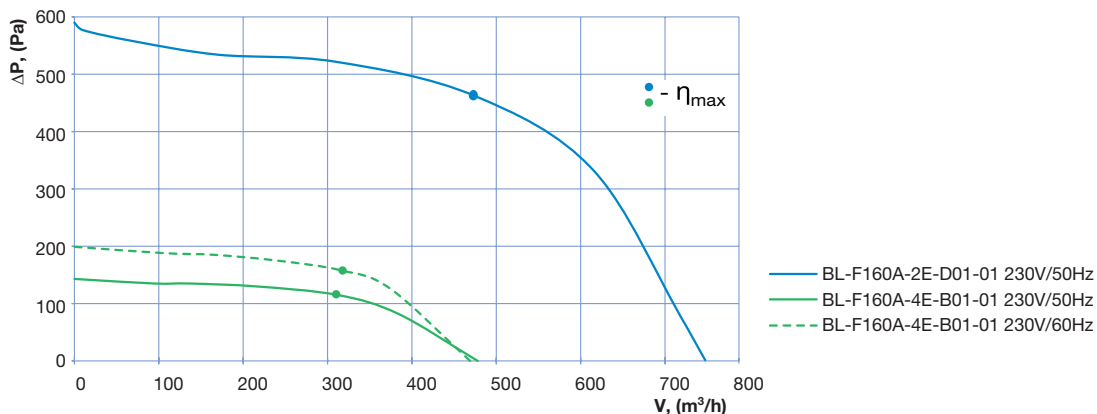
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F160A-2E-D01-01	230	50	2580	240	1.08	71	-25°C...+40°C	6.0/450	A
BL-F160A-4E-B01-01	230	50	1300	53	0.24	66	-25°C...+50°C	1.5/450	A
		60	1500	65	0.28	68	-25°C...+50°C	1.5/450	A

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 180 mm)



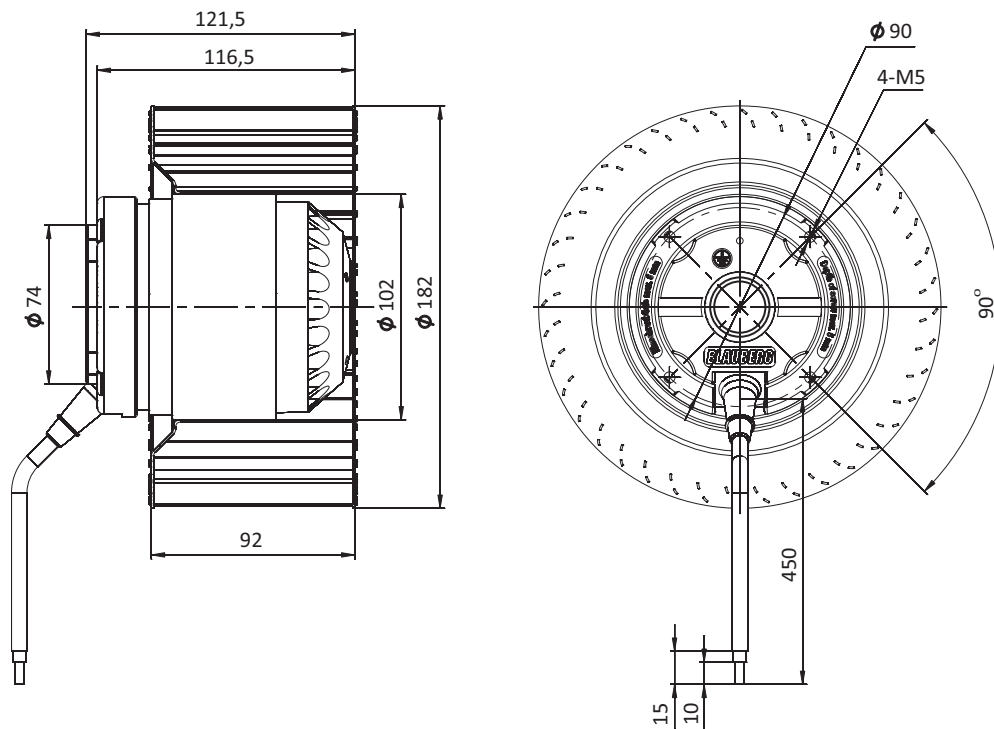
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



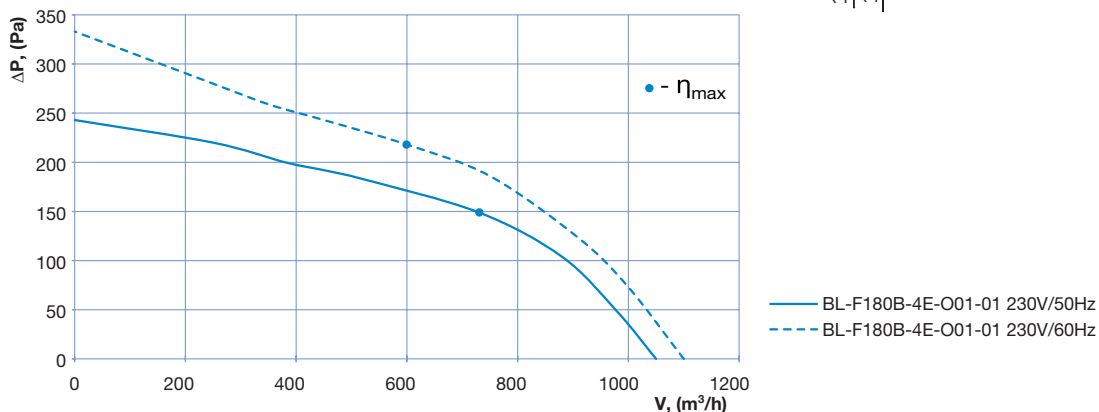
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F180B-4E-O01-01	230	50	1280	105	0,47	65	-25°C...+40°C	3.0/450	A
		60	1460	115	0,52	67	-25°C...+40°C	3.0/450	

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 200 mm)

AC

EC



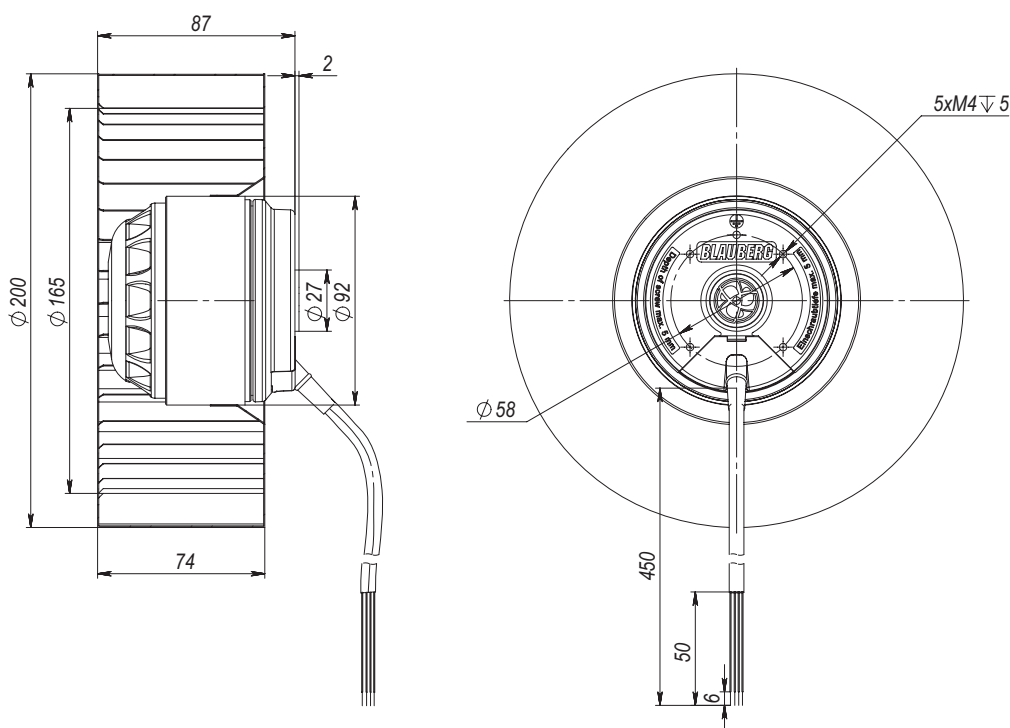
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



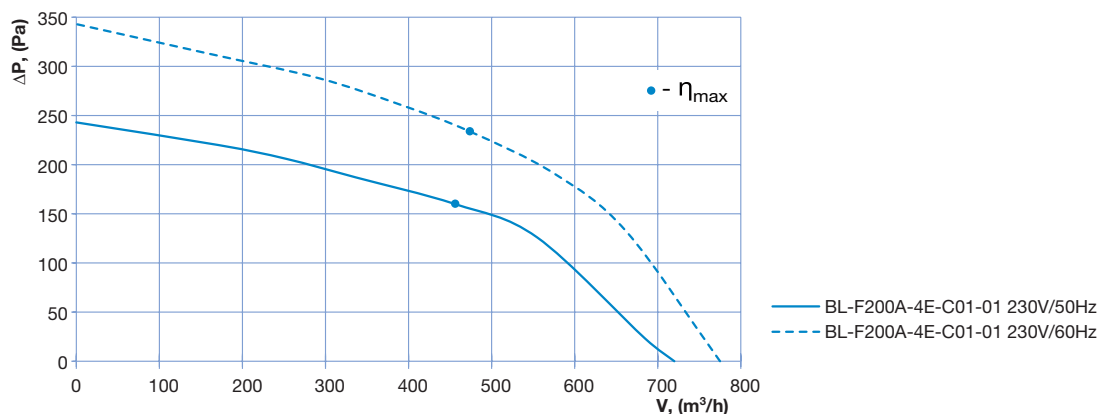
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F200A-4E-C01-01	230	50	1255	102	0.46	69	-25°C...+50°C	3.0/450	A
		60	1405	126	0.55	69	-25°C...+50°C	3.0/450	A

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 200 mm)



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

AC

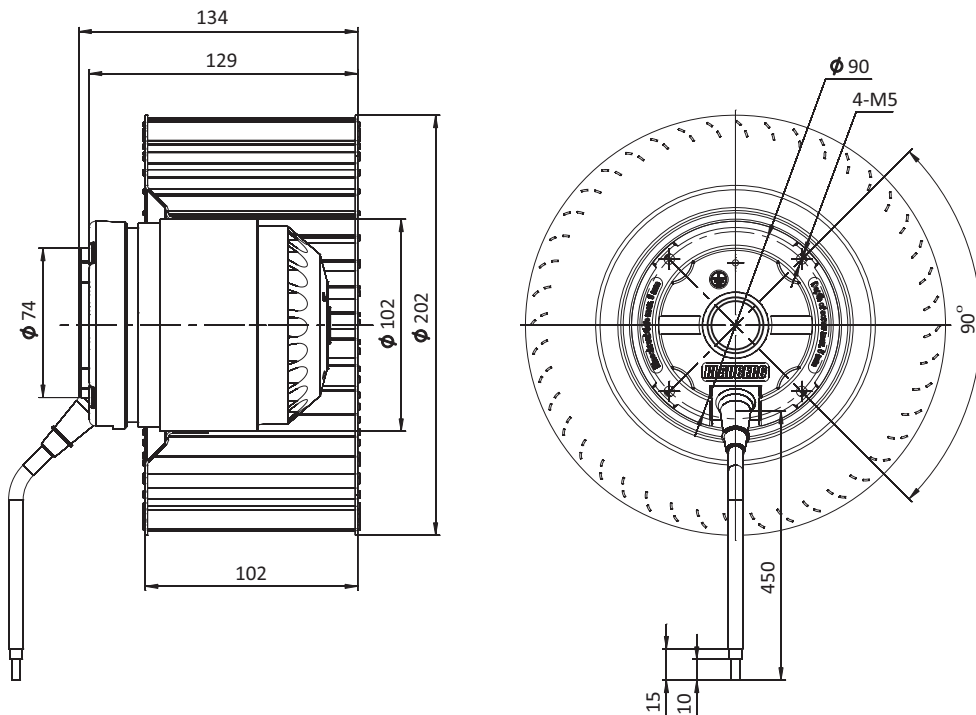
EC



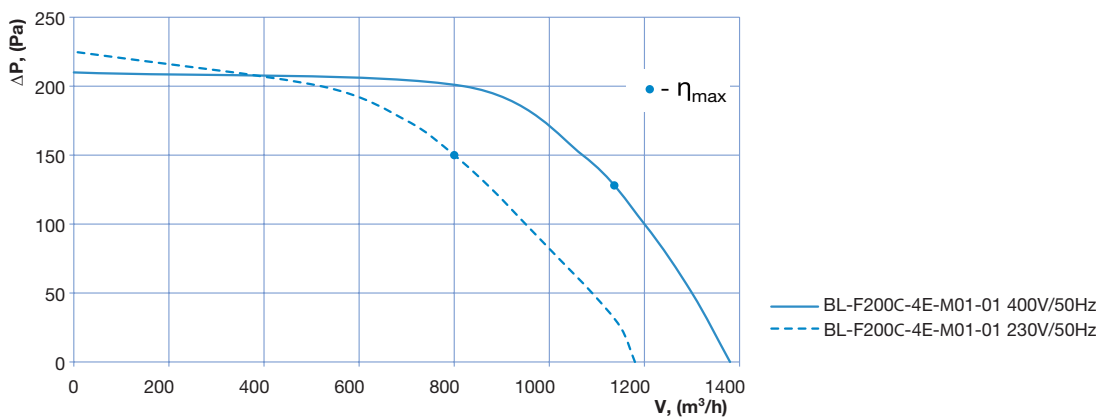
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F200C-4D-M01-01	400	50	1270	330	0,63	69	-25°C...+40°C	-	B
BL-F200C-4E-M01-01	230	50	1270	310	1,4	69	-25°C...+40°C	4.0/450	A

Overall dimensions



Performance curves



AC centrifugal fan (forward curved $\varnothing 225$ mm)

AC

EC



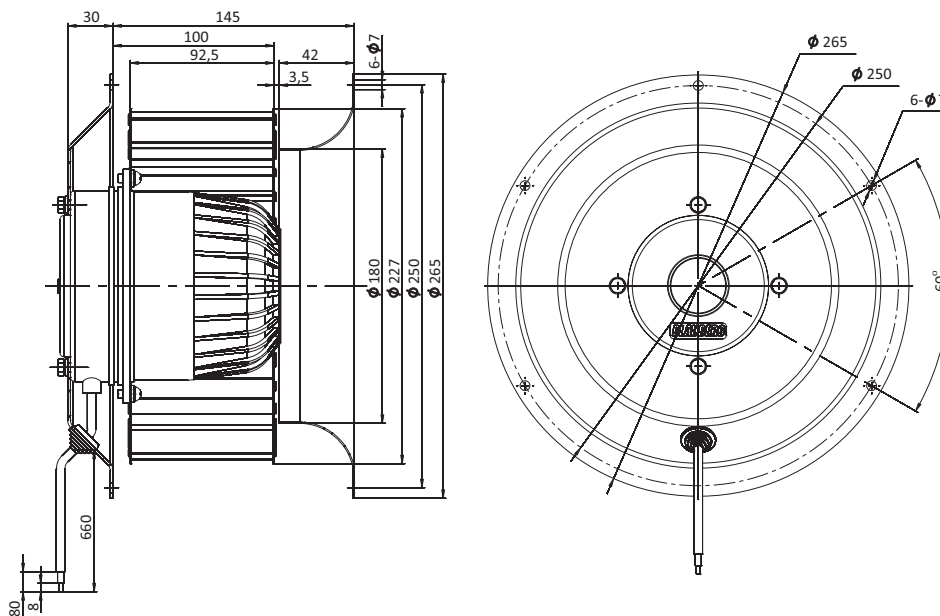
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



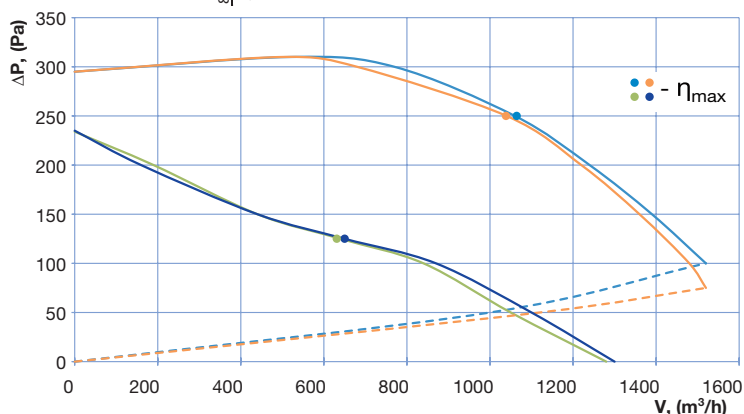
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F225A-4E-O01-01	230	50	1320	510	2,3	71	-25°C...+40°C	8.0/450	A
BL-F225A-6E-O01-01	230	50	930	250	1,3	68	-25°C...+40°C	6.0/450	A
BL-F225A-4D-O01-01	230	50	1300	490	1,43	71	-25°C...+40°C	-	B1
	400	50	1300	490	0,82	71	-25°C...+40°C	-	B2
BL-F225A-6D-L01-01	230	50	930	300	1,4	68	-25°C...+40°C	-	B1
	400	50	930	300	0,81	68	-25°C...+40°C	-	B2

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 250 mm)



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

AC

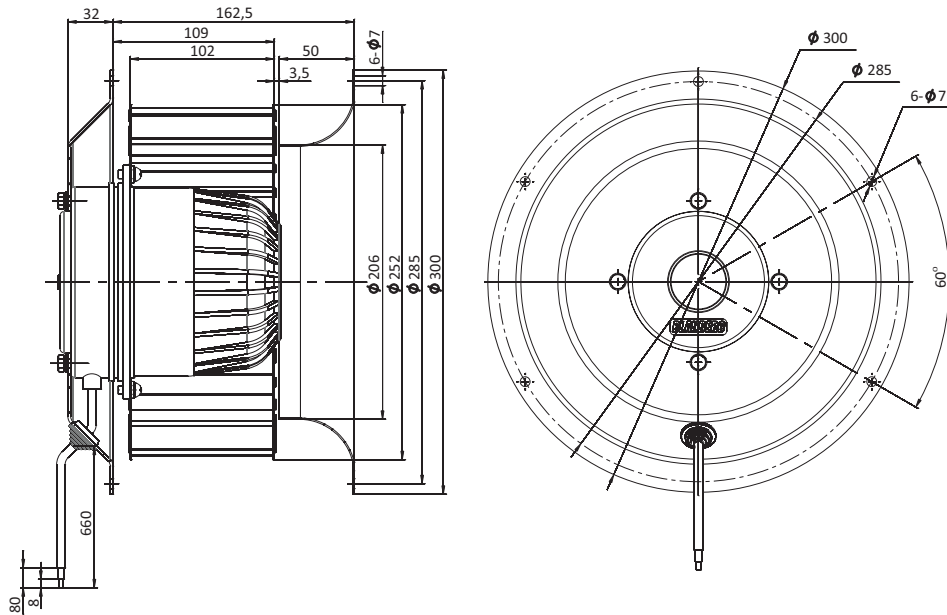
EC



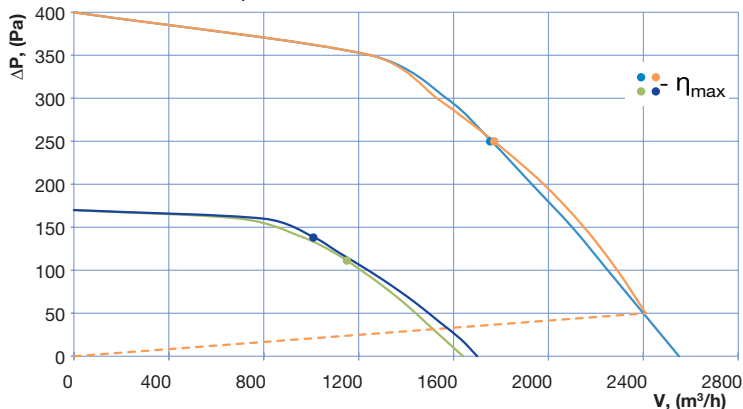
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F250A-4E-P01-01	230	50	1330	900	4,1	73	-25°C...+40°C	16.0/450	A
BL-F250A-6E-O01-01	230	50	900	320	1,6	70	-25°C...+40°C	5.0/450	A
BL-F250A-4D-P01-01	230	50	1400	870	3,1	74	-25°C...+40°C	-	B1
	400	50	1400	870	1,8	74	-25°C...+40°C	-	B2
BL-F250A-6D-L01-01	230	50	910	320	1,4	70	-25°C...+40°C	-	B1
	400	50	910	320	0,81	70	-25°C...+40°C	-	B2

Overall dimensions



Performance curves



- BL-F250A-4E-P01-01 230V/50Hz
- BL-F250A-6E-O01-01 230V/50Hz
- BL-F250A-4D-P01-01 400V/230V/50Hz
- BL-F250A-6D-L01-01 400V/230V/50Hz

AC centrifugal fan (forward curved \varnothing 280 mm)

AC

EC



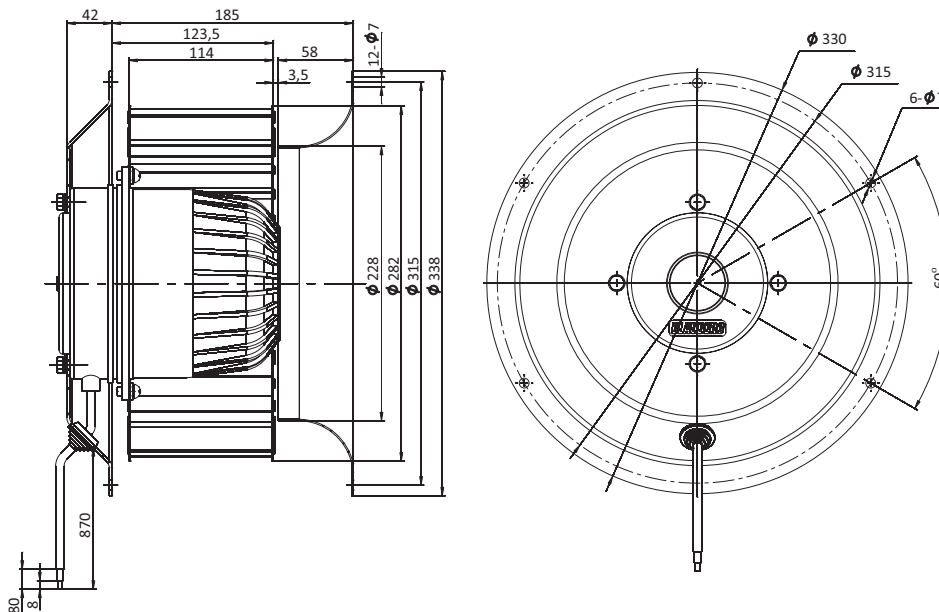
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



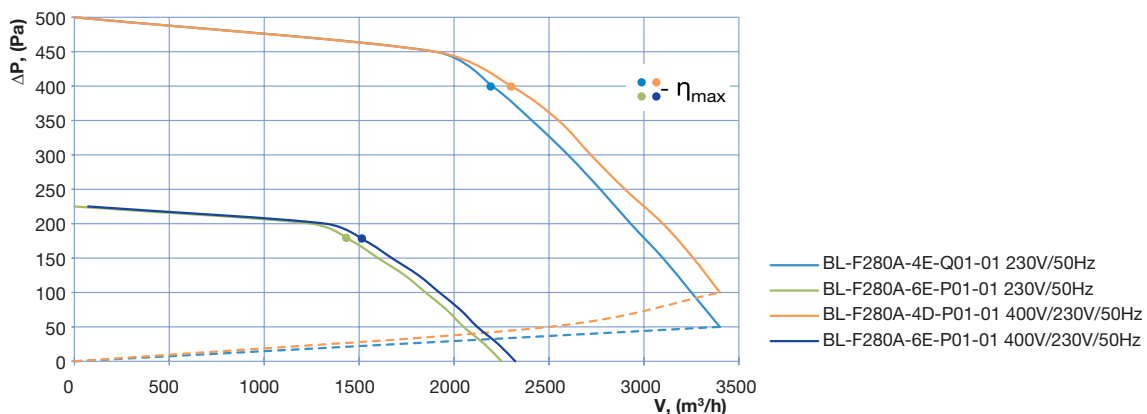
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F280A-4E-Q01-01	230	50	1360	1600	7,3	74	-25°C...+40°C	22.0/450	A
BL-F280A-6E-P01-01	230	50	900	450	2,2	72	-25°C...+40°C	5.0/450	A
BL-F280A-4D-P01-01	230	50	1360	1700	5,4	75	-25°C...+40°C	-	B1
	400	50	1360	1700	3,2	75	-25°C...+40°C	-	B2
BL-F280A-6D-M01-01	230	50	900	450	1,48	72	-25°C...+40°C	-	B1
	400	50	900	450	0,85	72	-25°C...+40°C	-	B2

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 315 mm)



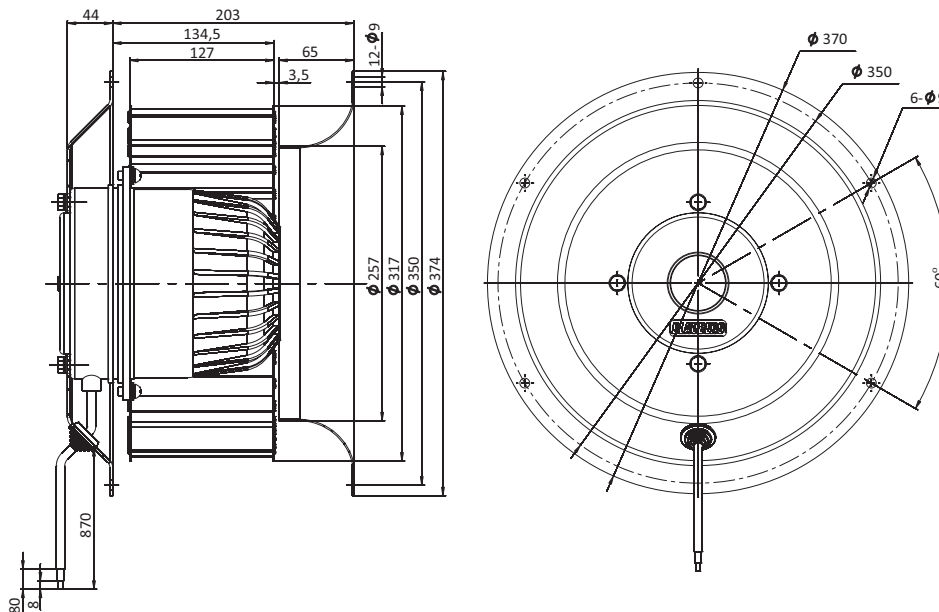
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



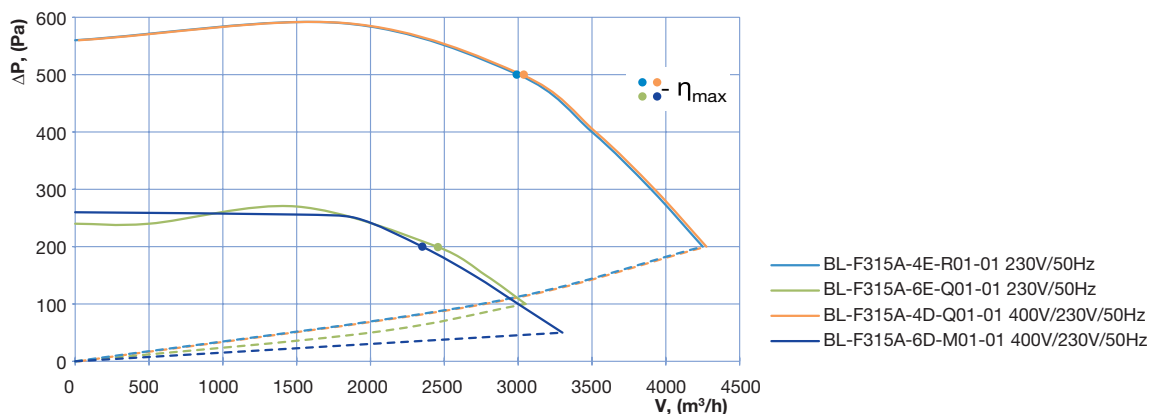
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Capacitor μ F/VDB	Electrical connection
BL-F315A-4E-R01-01	230	50	1360	2300	10	75	-25°C...+40°C	50.0/450	A
BL-F315A-6E-Q01-01	230	50	870	720	3,6	74	-25°C...+40°C	12.0/450	A
BL-F315A-4D-Q01-01	230	50	1360	2200	6,9	75	-25°C...+40°C	-	B1
	400	50	1360	2200	4	75	-25°C...+40°C	-	B2
BL-F315A-6D-M01-01	230	50	940	780	2,6	74	-25°C...+40°C	-	B1
	400	50	940	780	1,5	74	-25°C...+40°C	-	B2

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 355 mm)

AC

EC



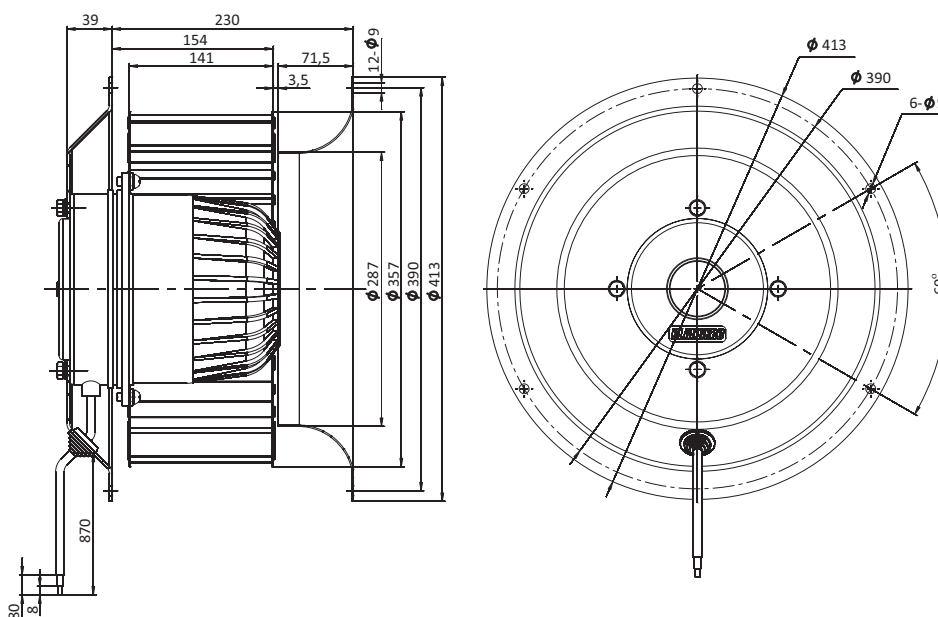
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



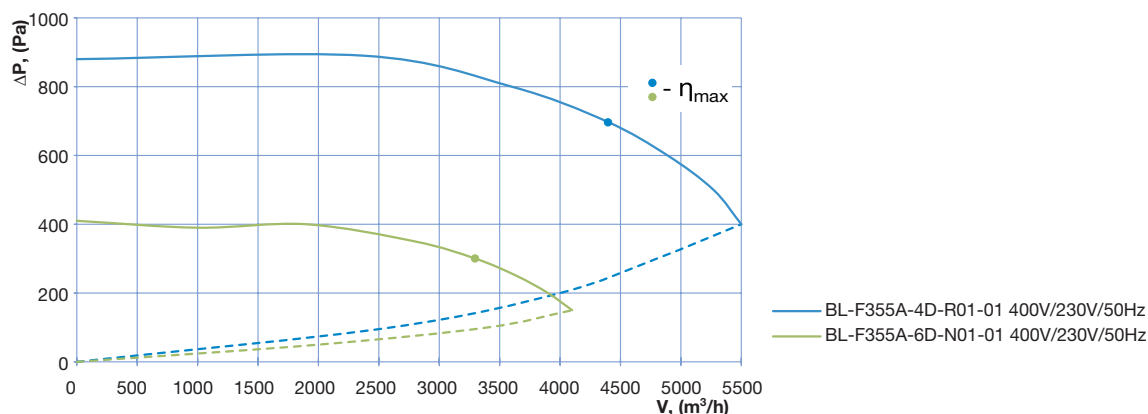
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F355A-4D-R01-01	230	50	1340	3500	10,2	75	-25°C...+40°C	B1
	400	50	1340	3500	5,9	75	-25°C...+40°C	B2
BL-F355A-6D-N01-01	230	50	900	1150	4	74	-25°C...+40°C	B1
	400	50	900	1150	2,3	74	-25°C...+40°C	B2

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 400 mm)



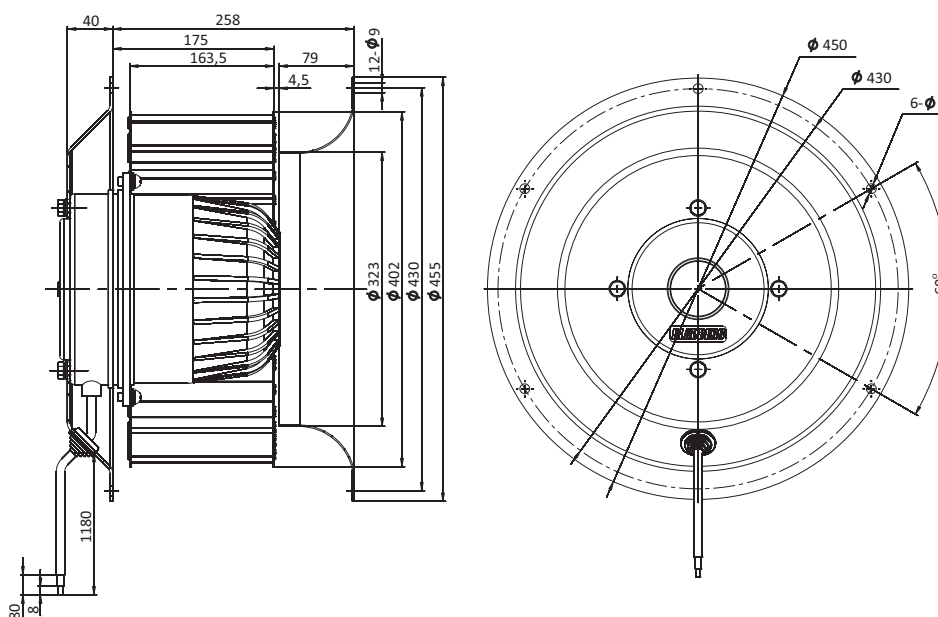
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



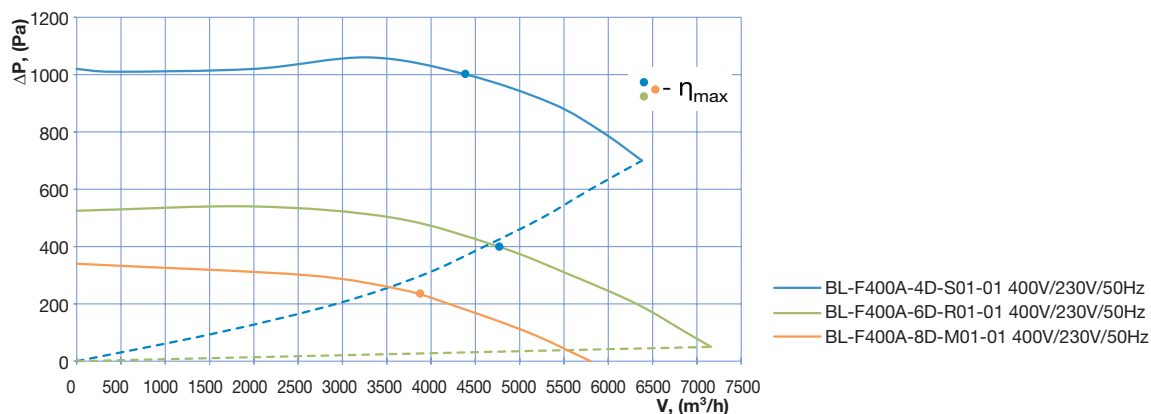
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F400A-4D-S01-01	230	50	1400	4800	13,9	86	-25°C...+40°C	B1
	400	50	1400	4800	8	86	-25°C...+40°C	B2
BL-F400A-6D-R01-01	230	50	870	2800	8,44	78	-25°C...+40°C	B1
	400	50	870	2800	4,85	78	-25°C...+40°C	B2
BL-F400A-8D-M01-01	230	50	700	1700	6,43	69	-25°C...+40°C	B1
	400	50	700	1700	3,7	69	-25°C...+40°C	B2

Overall dimensions



Performance curves



AC centrifugal fan (forward curved \varnothing 450 mm)

AC

EC



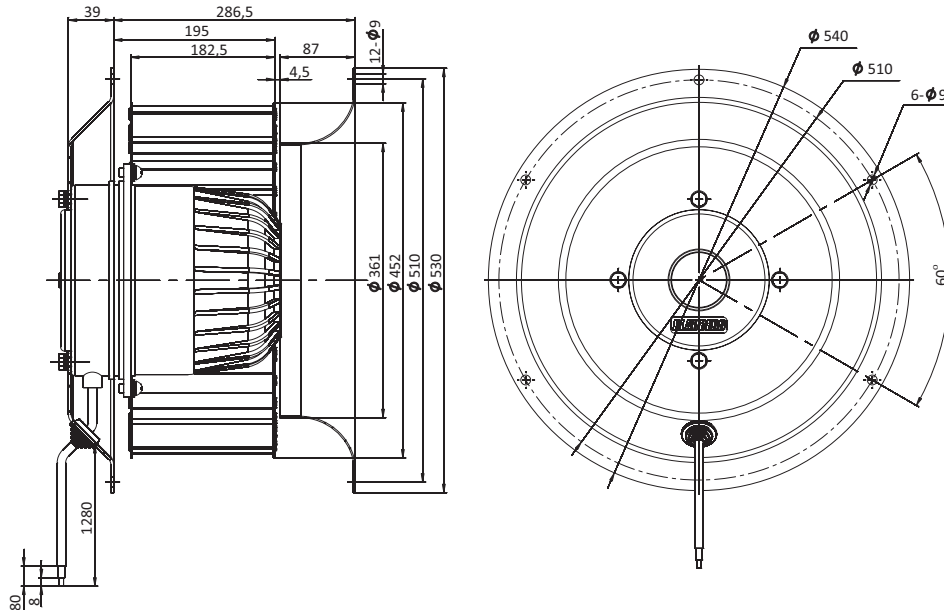
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: F
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



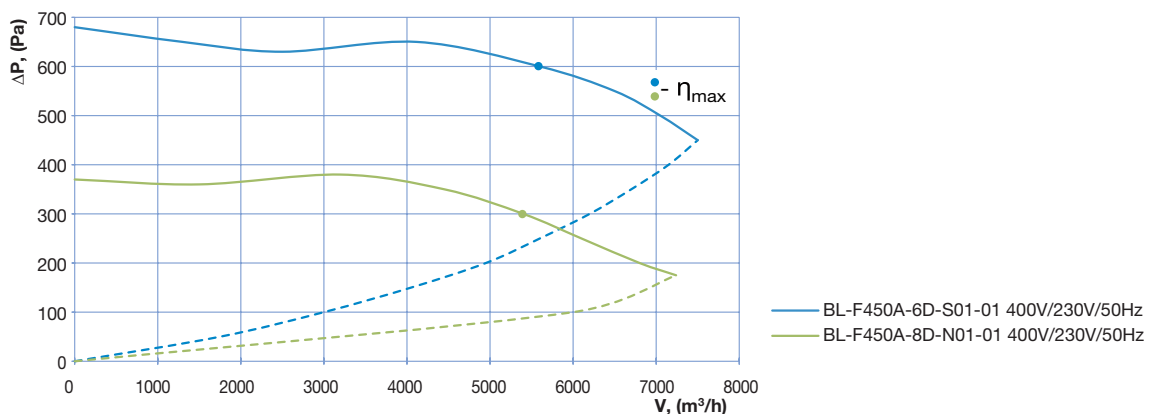
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input, W	Current, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F450A-6D-S01-01	230	50	930	3500	10,4	84	-25°C...+40°C	B1
	400	50	930	3500	6	84	-25°C...+40°C	B2
BL-F450A-8D-N01-01	230	50	680	2000	7,13	78	-25°C...+40°C	B1
	400	50	680	2000	4,1	78	-25°C...+40°C	B2

Overall dimensions



Performance curves



EC centrifugal fan (forward curved $\varnothing 108$ mm)



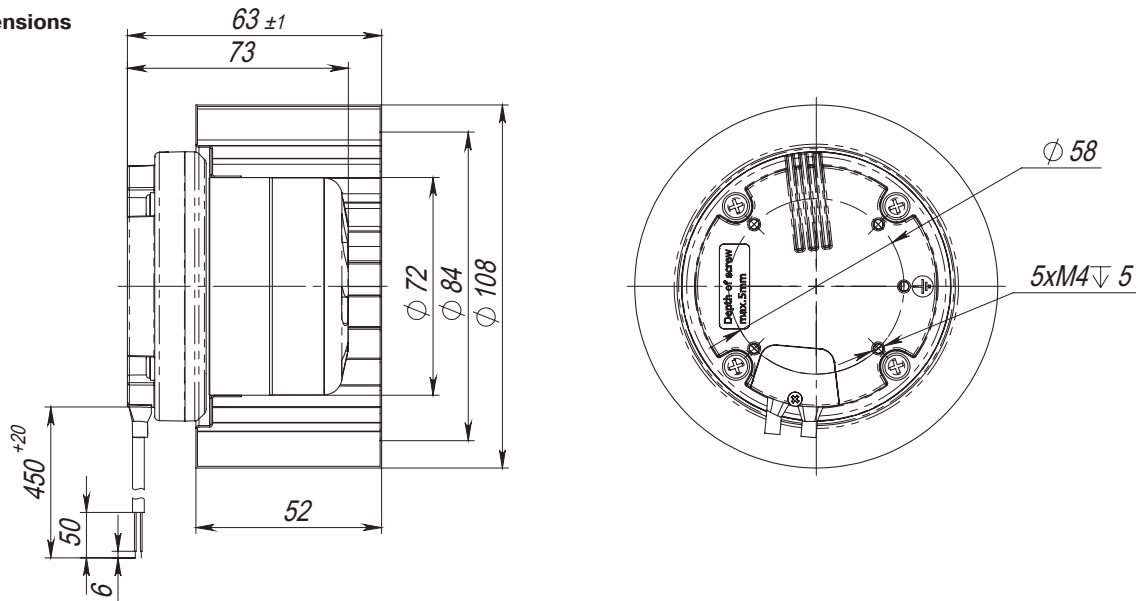
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



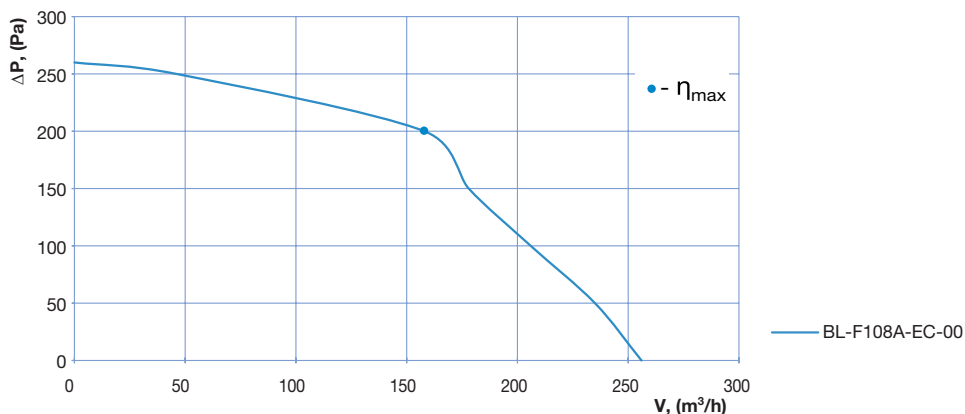
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F108A-EC-00	230	50/60	2550	48	0,43	64	-25°C...+50°C	E

Overall dimensions



Performance curves



EC centrifugal fan (forward curved \varnothing 120 mm)



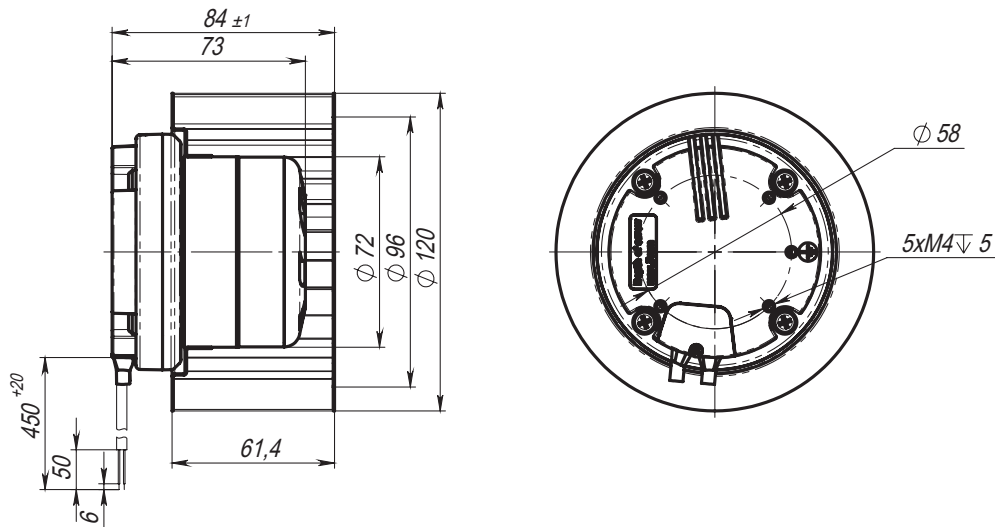
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



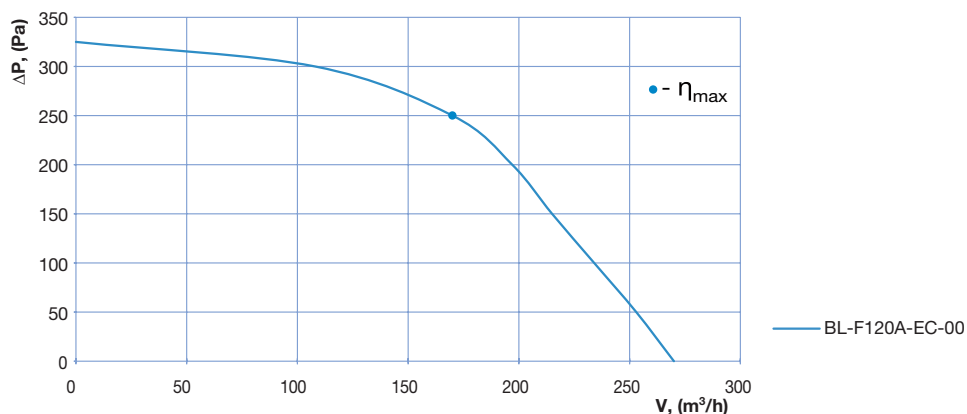
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F120A-EC-00	230	50/60	2488	61	0,53	65	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (forward curved $\varnothing 133$ mm)



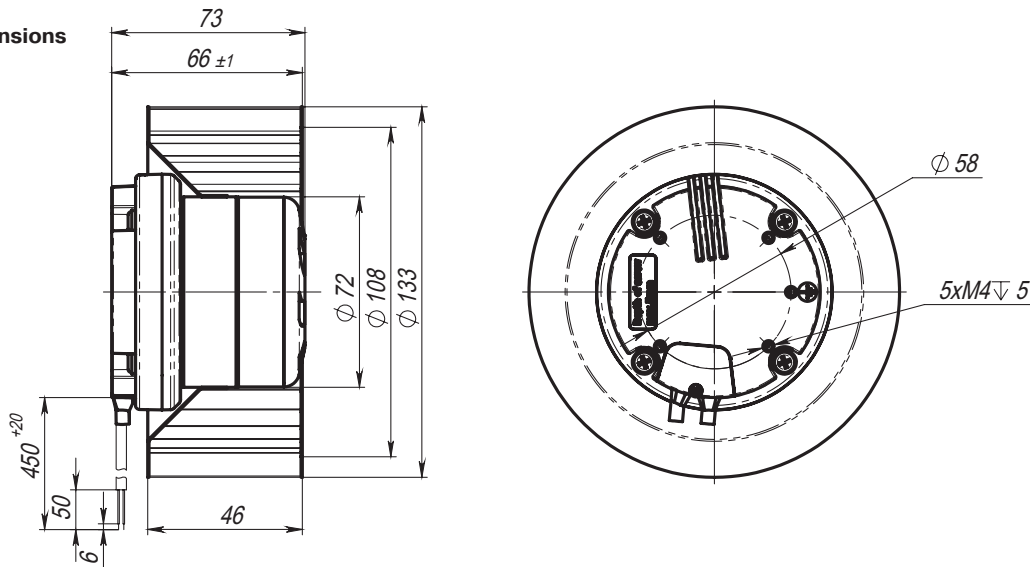
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



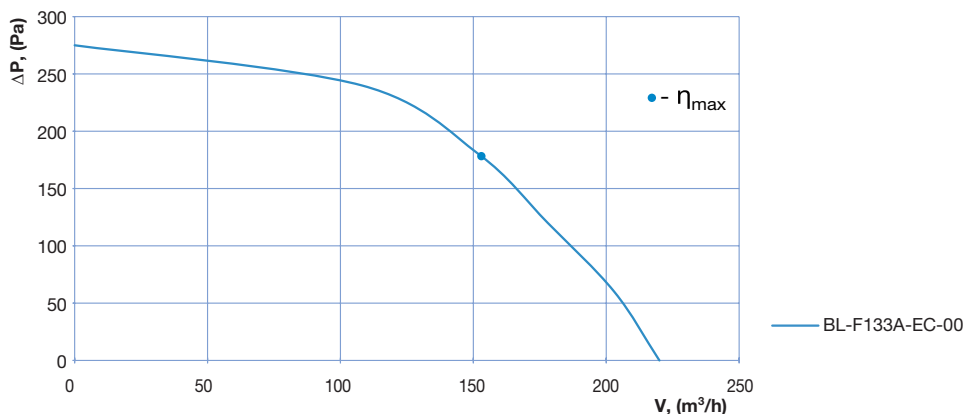
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F133A-EC-00	230	50/60	1925	38	0,3	63	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (forward curved \varnothing 140 mm)

AC

EC



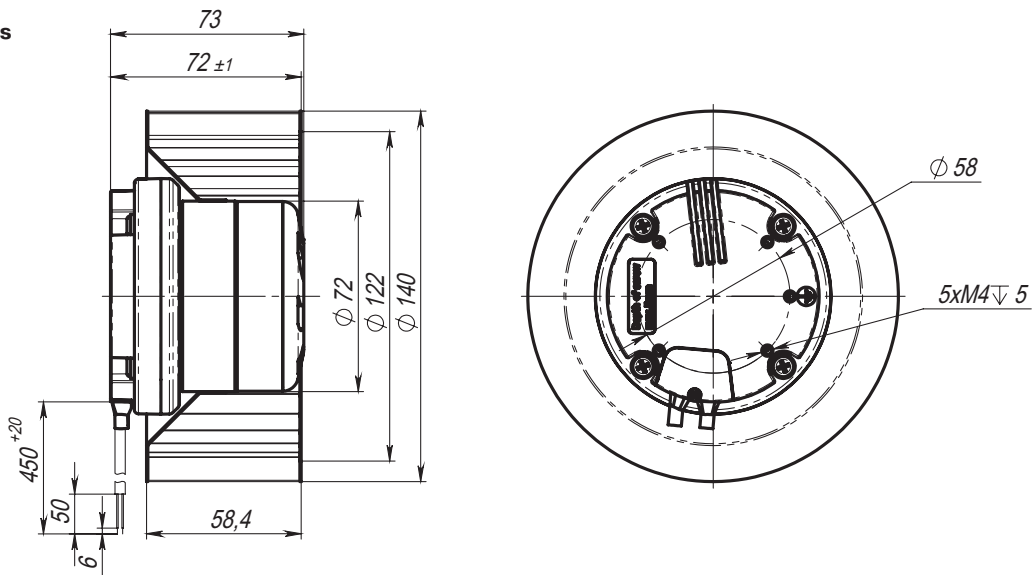
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



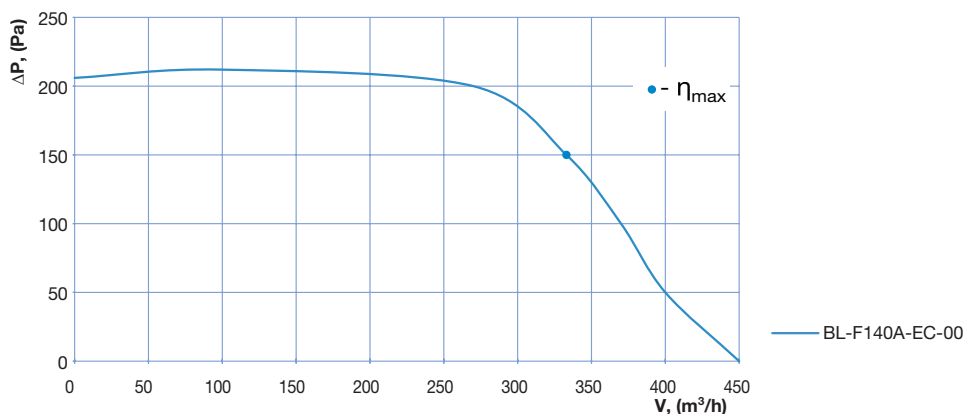
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F140A-EC-00	230	50/60	2600	102	0,46	72	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (forward curved \varnothing 146 mm)



- Speed Control: 0 ~ 10V DC/PWM
- 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

AC

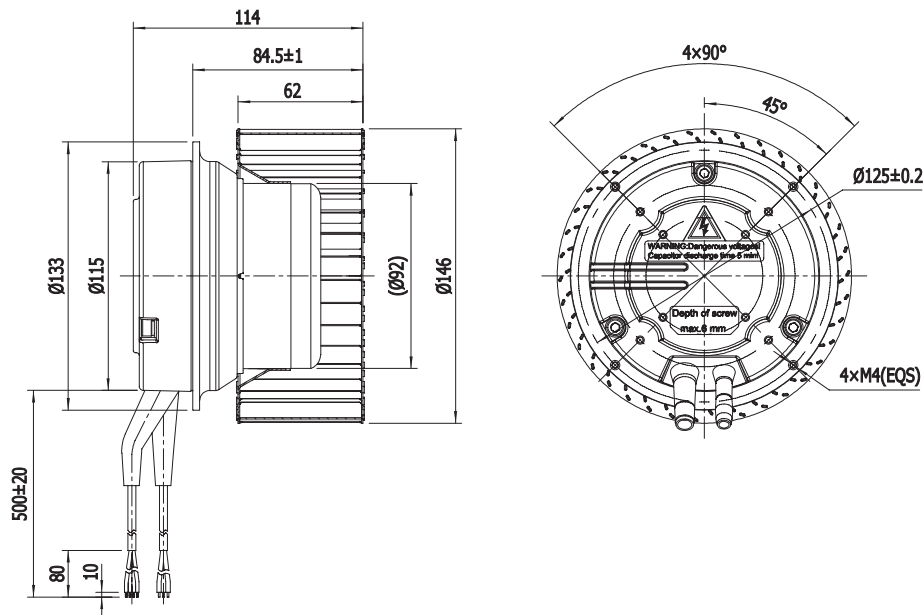
EC



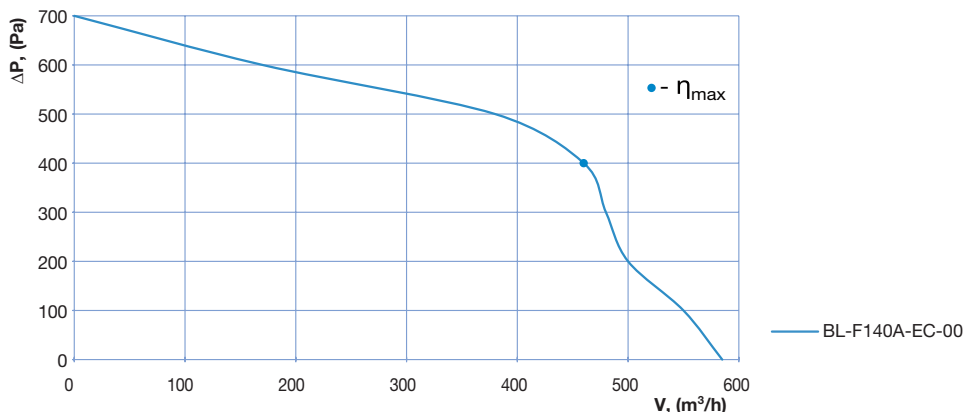
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F146A-EC-00	230	50/60	2520	175	1,3	71	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (forward curved \varnothing 160 mm)



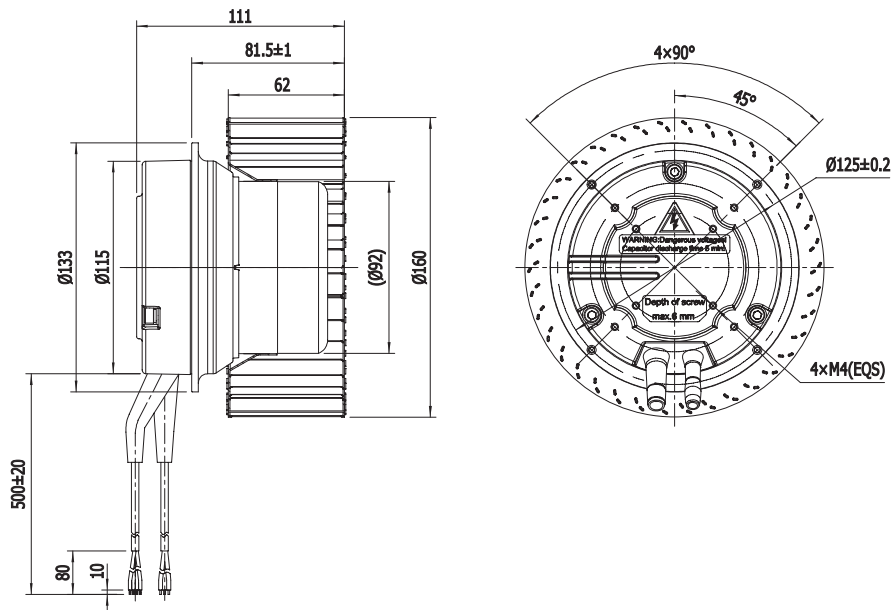
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



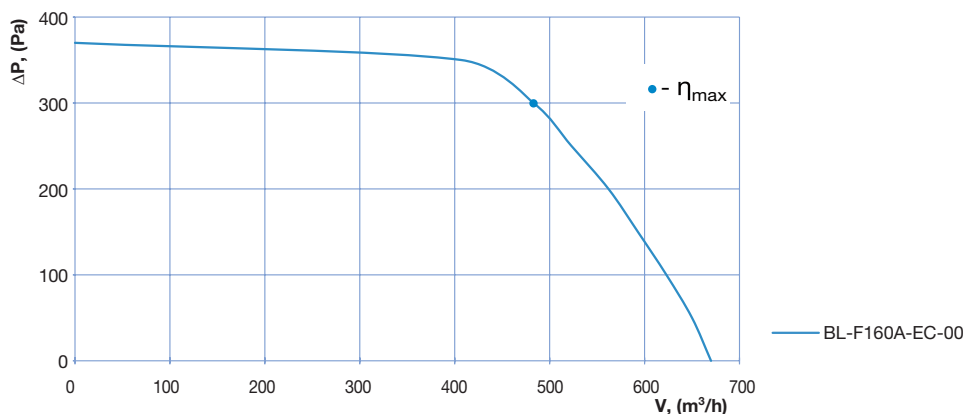
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F160A-EC-00	230	50/60	2160	177	1,28	70	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (forward curved \varnothing 180 mm)



- Speed Control: 0 ~ 10V DC/PWM
- 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

AC

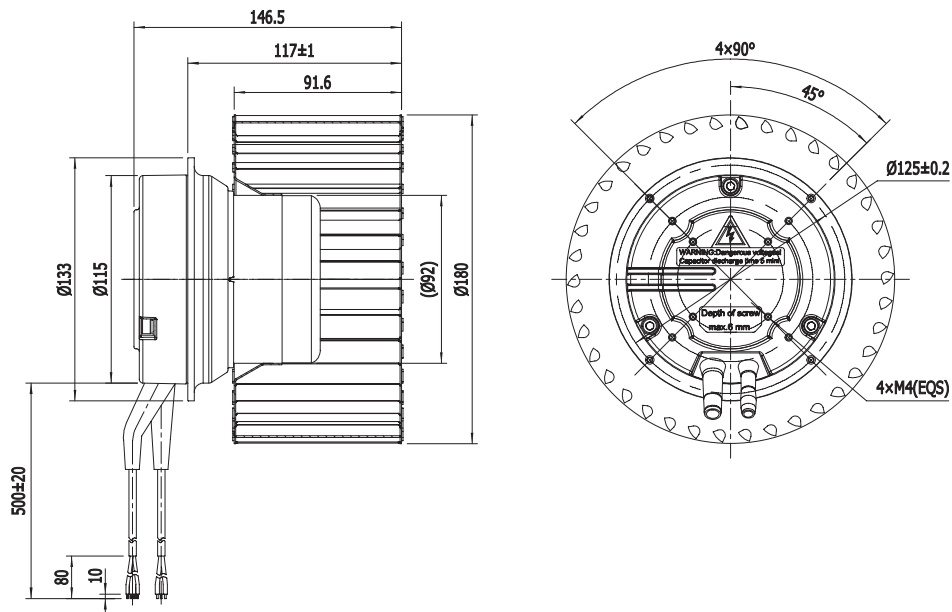
EC



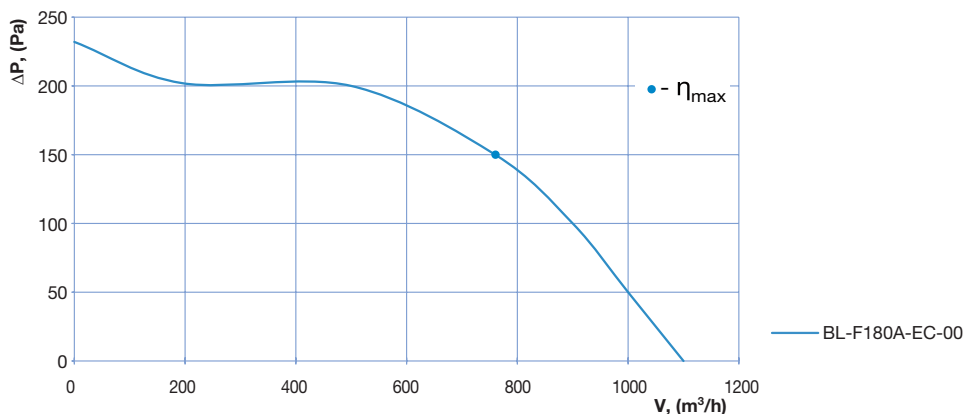
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F180A-EC-00	230	50/60	1250	158	1,18	60	-25°C...+40°C	E

Overall dimensions



Performance curves



EC centrifugal fan (forward curved \varnothing 200 mm)



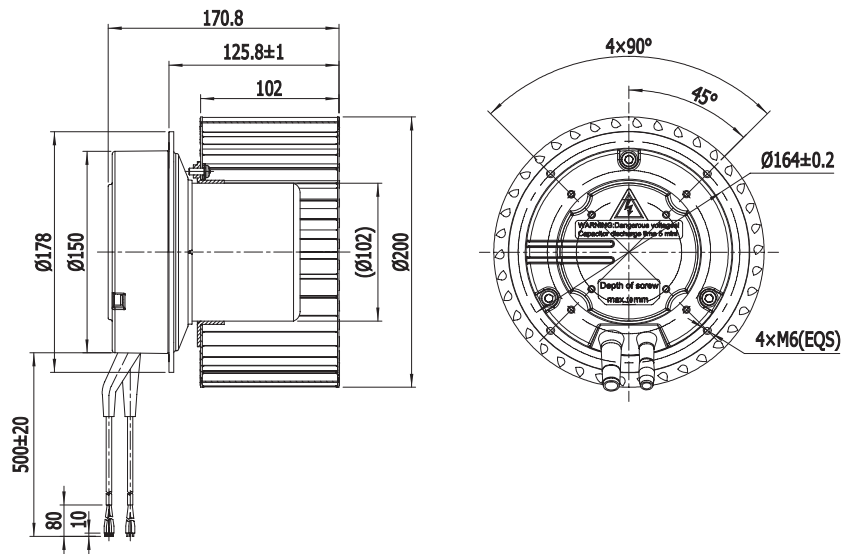
- Speed Control: 0 ~ 10V DC/PWM
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



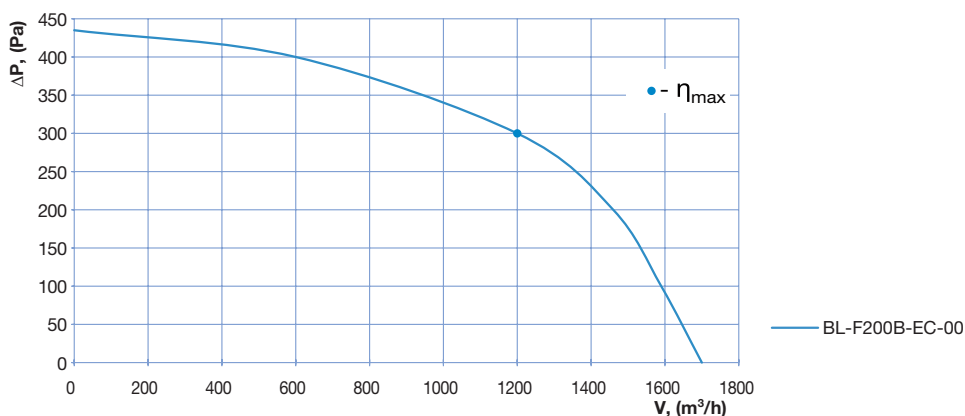
Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Speed, RPM	Power input max, W	Current max, A	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
BL-F200B-EC-00	230	50/60	1800	510	3,1	69	-25°C...+40°C	E

Overall dimensions



Performance curves





Blowers

AC



AC blowers (Helix)



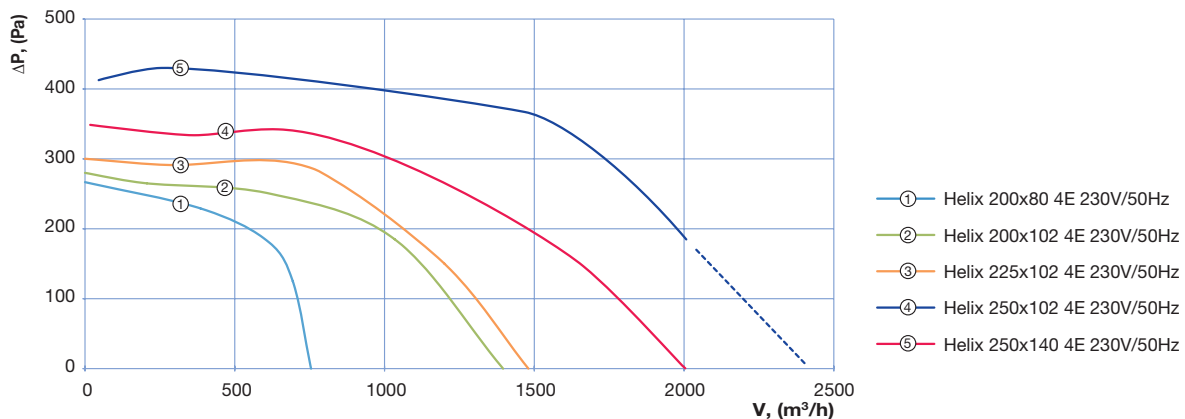
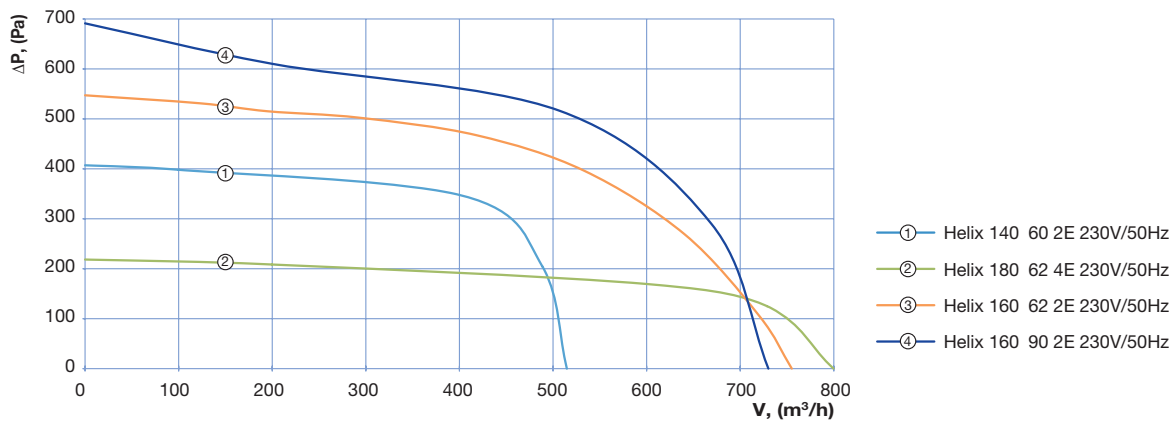
- Impeller material: galvanized steel
- Direction of rotation: clockwise, seen on rotor
- Type of protection: IP44
- Insulation class: B
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally



Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Power input, W	Current, A	Speed, RPM	Sound pressure level, dB(A)	Perm. Amb. Temperature, °C	Electrical connection
Helix 140x60 2E	230	50	140	0.64	2820	68	-25°C...+45°C	A
Helix 160x62 2E	230	50	320	1.48	2630	70	-25°C...+50°C	A
Helix 160x90 2E	230	50	320	1.48	2745	70	-25°C...+45°C	A
Helix 180x62 4E	230	50	160	0.7	1465	62	-25°C...+45°C	A
Helix 200x80 4E	230	50	125	0.55	1430	63	-25°C...+45°C	A
Helix 200x102 4E	230	50	280	1.25	1475	65	-25°C...+40°C	A
Helix 225x102 4E	230	50	395	1.98	1330	69	-25°C...+70°C	A
Helix 250x102 4E	230	50	810	3.65	1330	63	-25°C...+70°C	A
Helix 250x140 4E	230	50	570	2.48	1310	60	-25°C...+70°C	A

Performance curves

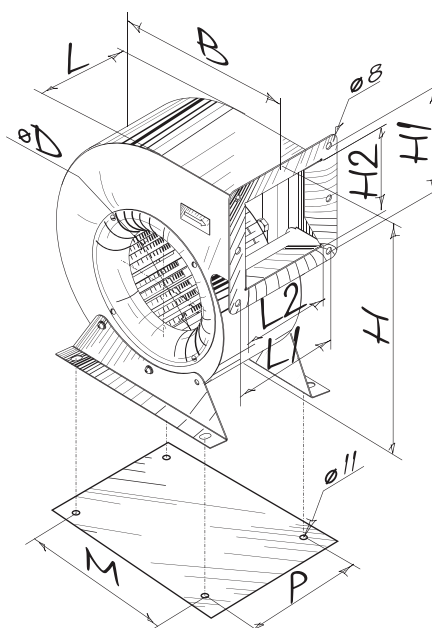


Technical data

Type	Rubber anti-vibration mounts	Spring-loaded anti-vibration mounts	Flange	Grille		
Helix 140x60 2E	SI-G 8	SI-F 8	FRZ-H 140	SG-H 140		
Helix 160x62 2E			FRZ-H 160	SG-H 160		
Helix 160x90 2E			FRZ-H 180	SG-H 180		
Helix 180x92 4E			FRZ-H 200	SG-H 200		
Helix 200x80 4E			SI-G 16	SI-F 16	FRZ-H 225	SG-H 225
Helix 200x102 4E					FRZ-H 250	SG-H 250
Helix 225x102 4E						
Helix 250x102 4E						
Helix 250x140 4E						

Overall dimensions

Type	Dimensions [mm]										Weight [kg]
	∅D	B	H	H1	H2	L	L1	L2	P	M	
Helix 140x60 2E	140	243	287	125	93	85	107	75	-	-	3,2
Helix 160x62 2E	160	277	324	136	106	89	112	82	-	-	4,2
Helix 160x90 2E	160	277	324	136	106	136	158	127	-	-	5,1
Helix 180x92 4E	180	311	360	150	120	145	166	137	-	-	6,5
Helix 200x80 4E	200	335	398	165	134	121	140	113	-	-	6,8
Helix 200x102 4E	200	335	398	165	134	157	175	148	-	-	7,3
Helix 225x102 4E	225	365	441	210	171	145	170	137	178	250	11,2
Helix 250x102 4E	250	410	485	230	191	165	190	157	198	270	16,3
Helix 250x140 4E	250	410	485	230	191	205	230	197	238	270	15,5





AC

Motors

AC motor (external rotor \varnothing 92 mm)



- 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

AC

EC

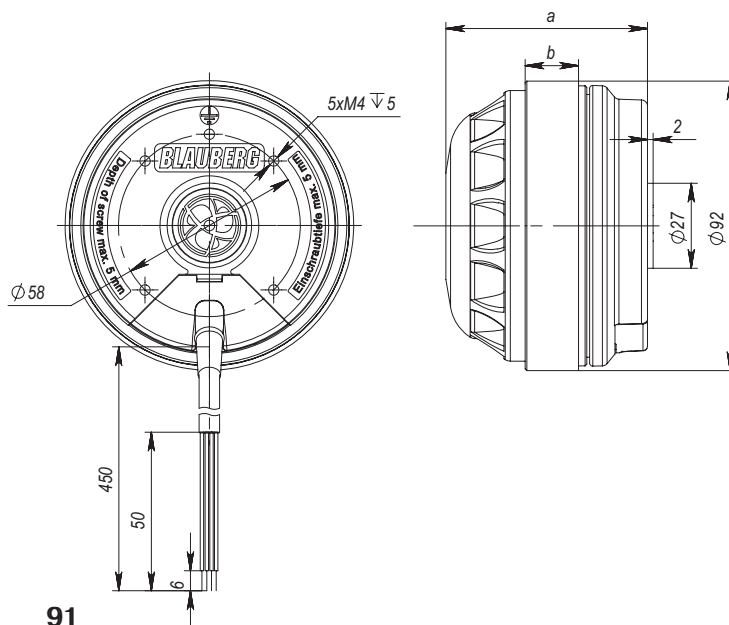


Technical data

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	Capacitor, μ F/VDB	Electrical connection
MA2E-9217A-A01-01	230	50	13,20	18,00	2300	70	0,31	100	0,44	-25C...+40C	1,5	A
		60	13,80	16,70	2700	77	0,34	100	0,44	-25C...+40C	1,5	A
MA2E-9217A-A02-01	230	50	16,60	19,50	2150	94	0,42	122	0,53	-25C...+40C	2	A
		60	18,10	20,80	2600	100	0,44	128	0,56	-25C...+40C	2	A
MA2E-9225A-A01-01	230	50	19,00	26,50	2450	94	0,44	157	0,70	-25C...+40C	2	A
		60	22,40	24,90	2700	110	0,48	155	0,7	-25C...+40C	2	A
MA2E-9235A-A01-01	230	50	32,10	22,10	2450	136	0,6	221	0,97	-25C...+40C	3,5	A
		60	25,30	49,20	3000	150	0,65	218	0,96	-25C...+40C	3,5	A
MA2E-9235A-A02-01	230	50	30,80	39,80	2450	135	0,6	219	0,96	-25C...+40C	4	A
		60	29,50	41,30	3000	165	0,72	225	0,97	-25C...+40C	4	A
MA2E-9235A-A03-01	230	50	34,00	38,10	2350	160	0,7	233	1,00	-25C...+40C	3	A
		60	35,00	36,50	2400	190	0,85	230	1	-25C...+40C	3	A
MA2E-9242A-A01-01	230	50	38,00	47,20	2500	170	0,75	286	1,27	-25C...+40C	4	A
		60	32,00	42,80	2600	230	1,1	282	1,25	-25C...+40C	4	A
MA2E-9242A-A02-01	230	50	56,30	67,00	2400	255	1,2	478	1,70	-25C...+40C	6	A
		60	53,10	65,00	2380	190	0,83	290	1,25	-25C...+40C	6	A
MA2E-9242A-A03-01	230	50	53,10	65,00	2380	190	0,83	290	1,25	-25C...+40C	6	A
		60	49,00	64,00	3100	240	1,06	320	1,40	-25C...+40C	6	A
MA4E-9217A-A01-01	230	50	123,00	147,70	1366	35	0,17	51	0,23	-25C...+40C	0,8	A
		60	120,00	148,00	1435	35	0,165	52	0,23	-25C...+40C	0,8	A
MA4E-9225A-A01-01	230	50	280,00	310,00	1300	55	0,24	97	0,42	-25C...+40C	1,5	A
		60	278,00	302,00	1500	65	0,29	98	0,43	-25C...+40C	1,5	A
MA4E-9225A-A02-01	230	50	230,00	296,00	1212	74	0,26	76	0,37	-25C...+40C	1	A
		60	225,00	272,00	1448	65	0,28	83	0,38	-25C...+40C	1	A
MA4E-9225A-B01-01	230	50	230,00	296,00	1212	74	0,26	76	0,37	-25C...+40C	1,5	A
		60	225,00	272,00	1448	65	0,28	83	0,38	-25C...+40C	1,5	A
MA4E-9235A-A01-01	230	50	425,00	547,00	1245	104	0,46	140	0,62	-25C...+40C	3	A
		60	435,00	514,00	1440	130	0,57	150	0,66	-25C...+40C	3	A
MA4E-9242A-A01-01	230	50	500,00	620,00	1250	230	0,63	245	0,91	-25C...+40C	4	A
		60	484,00	605,00	1500	245	0,68	270	0,95	-25C...+40C	4	A

Overall dimensions

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



AC



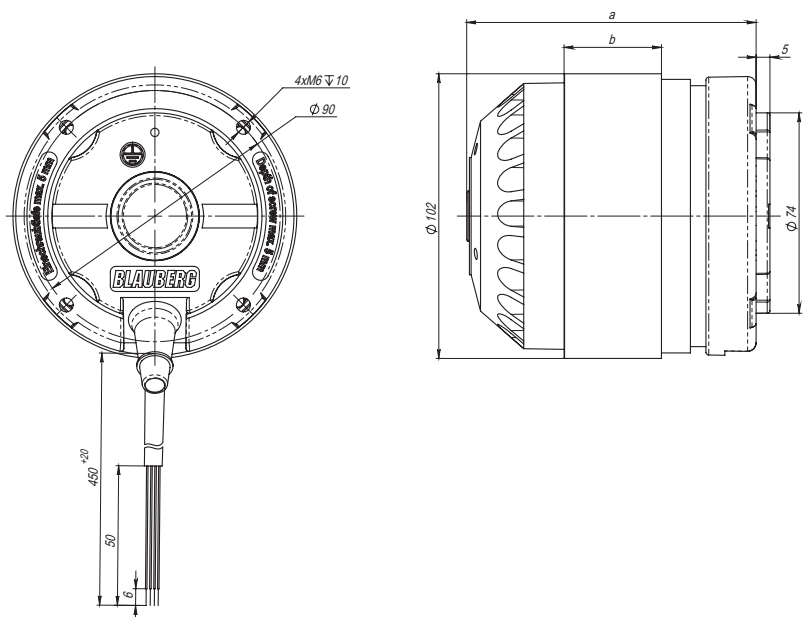
- Direction of rotation: upper request
- Type of protection: IP44
- Insulation class: F, H
- Mode of operation: continuous operation (S1)
- Bearing: ball bearings
- Motor protection: self-resetting TOP wired internally

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	Capacitor, μ F/VDB	Electrical connection
MA4E-10235A-A01-01	230	50	680,00	850,00	1300,00	195,00	0,80	210,00	1,30	-25C...+40C	4,50	A
		60	681,00	790,00	1574,00	195,00	0,80	206,00	1,30	-25C...+40C	4,50	
MA4E-10247A-A01-01	230	50	836,00	1110,00	1326,00	203,00	0,90	361,00	1,60	-25C...+40C	6,00	A
		60	1000,00	1030,00	1580,00	250,00	1,10	350,00	1,55	-25C...+40C	6,00	
MA4E-10260A-A01-01	230	50	1102,00	1527,00	1333,00	269,00	1,19	500,00	2,10	-25C...+40C	7,00	A
		60	1060,00	1370,00	1584,00	310,00	1,36	495,00	2,20	-25C...+40C	7,00	
MA4D-10235A-A01-01	400	50	900,00	1050,00	1200,00	184,00	0,80	208,00	0,90	-25C...+40C	-	B
MA4D-10247A-A01-01	400	50	1300,00	1420,00	1200,00	300,00	1,30	390,00	1,70	-25C...+40C	-	B
MA4D-10260A-A01-01	400	50	1900,00	2160,00	1300,00	552,00	2,40	670,00	2,91	-25C...+40C	-	B
MA6E-10235A-A01-01	230	50	200,00	310,00	930,00	70,00	0,30	105,00	0,46	-25C...+40C	2,00	A
MA6E-10247A-A01-01	230	50	400,00	505,00	910,00	108,00	0,47	163,00	0,71	-25C...+40C	2,50	A
MA6E-10260A-A01-01	230	50	650,00	770,00	875,00	161,00	0,70	230,00	1,00	-25C...+40C	4,00	A
MA4D-10235A-A01-01	400	50	570,00	640,00	840,00	59,80	0,26	96,00	0,42	-25C...+40C	-	B
MA6D-10247A-A01-01	400	50	700,00	830,00	900,00	82,80	0,36	120,00	0,52	-25C...+40C	-	B
MA6D-10260A-A01-01	400	50	1200,00	1380,00	800,00	138,00	0,60	204,00	0,89	-25C...+40C	-	B

Overall dimensions

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





- Direction of rotation: CCW, (shaft extension end to see)
- Type of protection: IP42, IP44 is available on request
- Insulation class: E, B, F, H (according to user requirements)
- Mode of operation: continuous operation (S1)
- Bearing: sleeve bearings or ball bearings upon your request
- Motor protection: thermal fuse

AC

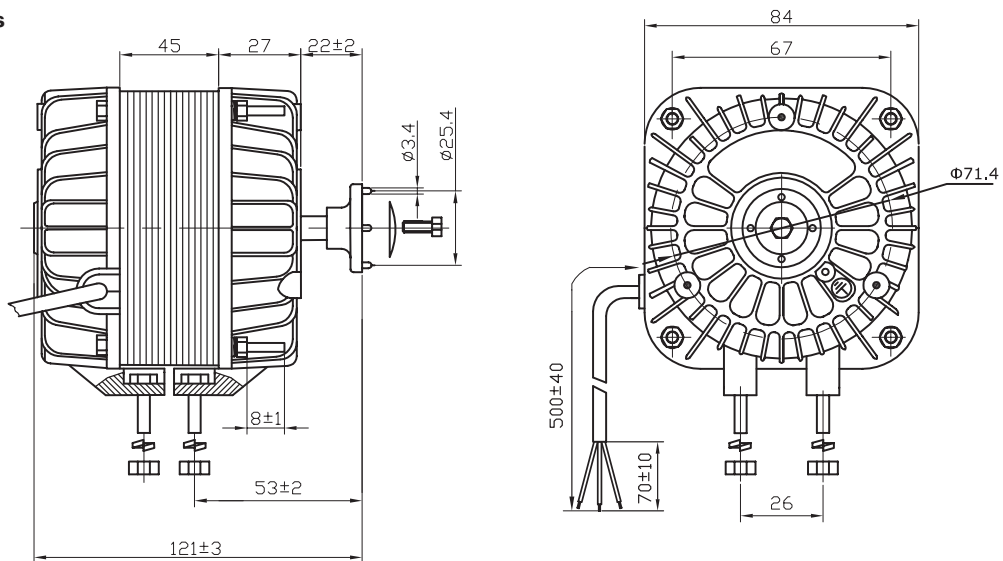
EC



Technical data

Type	Nominal voltage, VAC	Frequency, Hz	Input Current, A	Input Power, W	Speed, R/MIN	Perm. Amb. Temperature, °C
MA2E-8213-A01-01	220-240	50/60	0,14	20	1300	-30...+50
MA2E-8213-A02-01	220-240	50/60	0,20	29	1300	-30...+50
MA2E-8220-A01-01	220-240	50/60	0,23	31	1300	-30...+50
MA2E-8220-A02-01	220-240	50/60	0,25	36	1300	-30...+50
MA2E-8220-A03-01	220-240	50/60	0,36	54	1300	-30...+50
MA2E-8225-A01-01	220-240	50/60	0,45	60	1300	-30...+50
MA2E-8230-A01-01	220-240	50/60	0,50	70	1300	-30...+50
MA2E-8240-A01-01	220-240	50/60	0,70	90	1300	-30...+50
MA2E-8245-A01-01	220-240	50/60	0,85	110	1300	-30...+50
MA2C-8213-A01-01	110-120	60	0,60	33	1550	-30...+50
MA2C-8220-A01-01	110-120	60	0,80	55	1550	-30...+50
MA2C-8225-A01-01	110-120	60	1,00	70	1550	-30...+50
MA2C-8230-A01-01	110-120	60	1,00	75	1450	-30...+50
MA2C-8240-A01-01	110-120	60	1,40	100	1450	-30...+50
MA2C-8245-A01-01	110-120	60	1,50	110	1450	-30...+50

Overall dimensions



AC

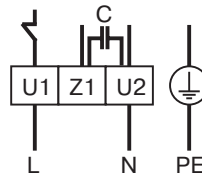
EC

Electrical connection



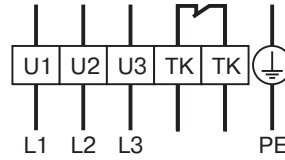


Type "A"



U1 Blue
U2 Black
Z1 Brown
PE Green/Yellow

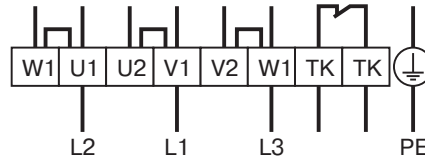
Type "B"



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

Type "B1"

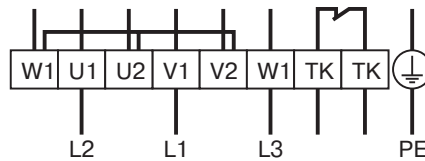
△ Connection



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

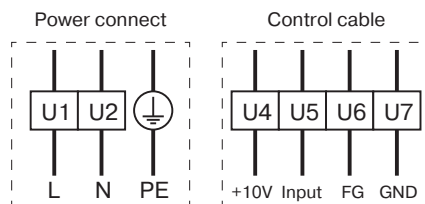
Type "B2"

Y Connection



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

Type "E"



Power connect

Control cable

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

- In case any of our products cannot meet your requirement please fill in the technical datasheet below for opening new project.

					Date	
Project name				Customer		
Product type	Standard model from catalogue for reference, if available					
Quantity in first year	Total quantity				Product life in years	
Target price in USD/EUR						
Deadline for sample			Number of samples			
Contact person				Contact details		
Key target technical parameters						
Nominal voltage, V	Voltage range, V				Frequency, Hz	
Rated power, W	Input power, W					
Installation position	Expected life span					
Bearing type	Operation mode					
Thermal Protection	Environmental impact F0...F5					
Type of protection, IPXX	Insulation class				Winding protection	
Medium working temperature range, °C				Environment temperature range, °C		
Direction of rotation	Sound pressure level, dB(A)					
Duty point	Max Airflow, m ³ /h				Max Static pressure, Pa	
Dimensions, if not standard, mm						
Application						
Specific Environmental or Operational conditions						
Customer Required Documentation	Drawing	Performance curves	Electrical connection diagram	Sample test report	Others	
Approvals	VDE	UL	CSA	CCC	Others	
Other Customer Requirements						



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