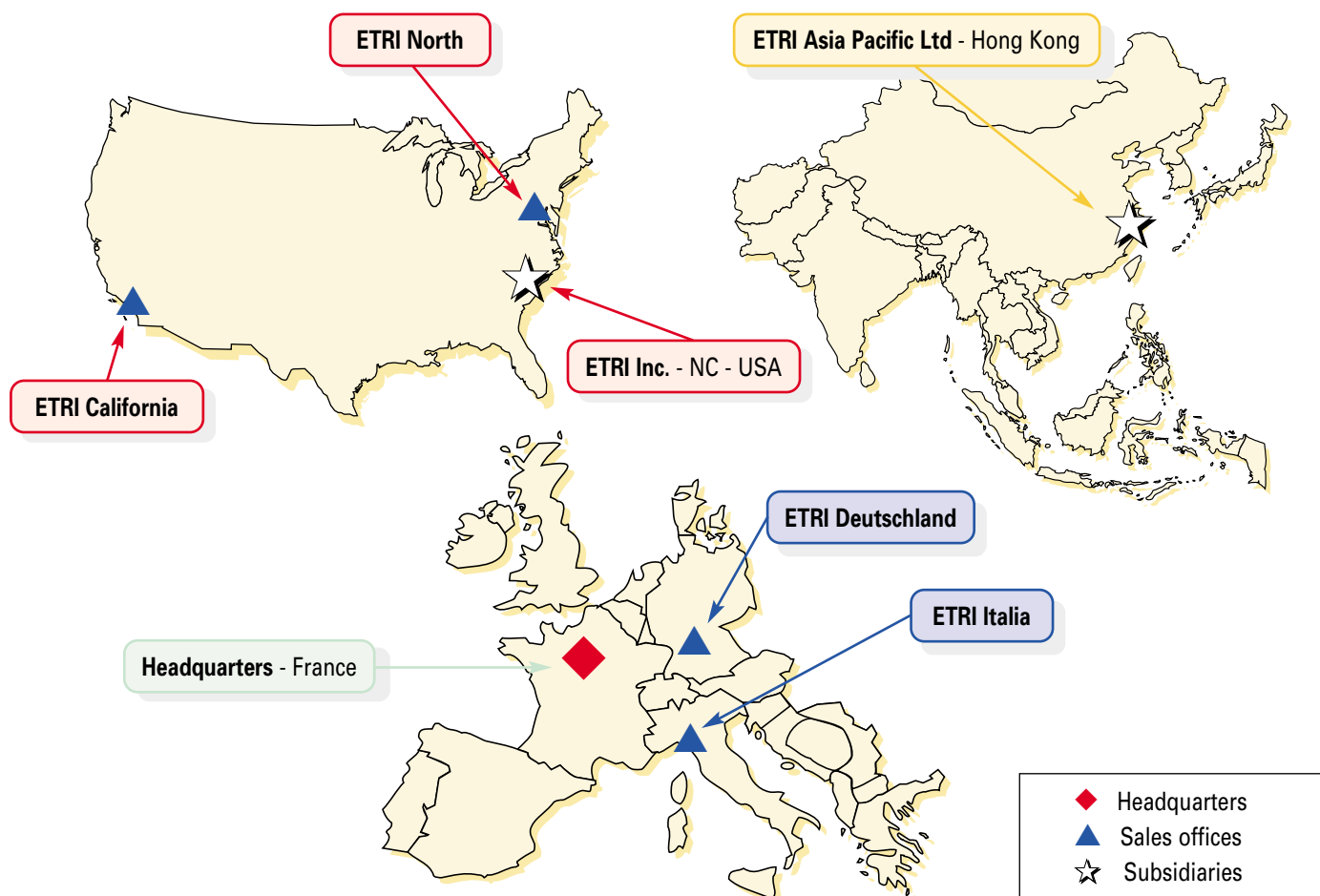


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General information

ETRI Fans: A tradition of Excellence

ETRI's success as a global leader in cooling products took root more than 50 years ago.

Our reputation for excellence began with massive ventilating systems and continues today using innovative designs and materials to produce our line of high quality, high performance fans and blowers.

ETRI[®]FANS is a product line of CONVERGIE Group

About Convergie...

Headquartered in France, with two R & D offices and three manufacturing plants ISO 9001 and 9002 certified, Convergie controls the design and production of its various products, and guarantees the best quality at all levels.

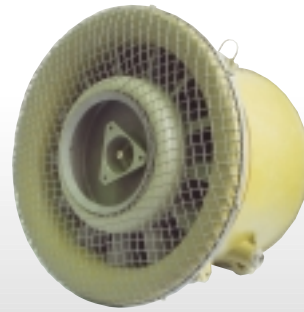
Convergie offers a wide international presence through its network of local offices (Europe, USA, Asia), distributors and sales representatives in more than 50 countries.



Military Aeronautics

Hydraulic Fan

- * On-board military application
- * Helicopter rotor cooling



Power supply cabinet cooling

Cooling Rack

- * 45 V power cabinet parts cooling

Military

NBC DC Fan

- * Blower for nuclear Shelter filter



Naval

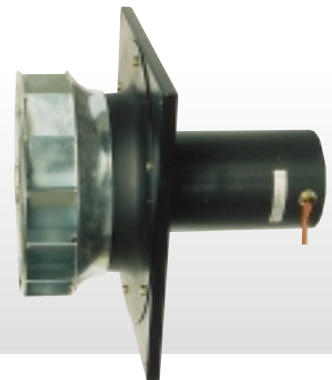
AC Fan

- * On-board military application
- * Cooling system for navigation instruments monitoring

Military Aeronautics

Backward Curved Fan

- * High performance Brushless DC motor
- * Railways specific input voltage: 110 V DC
- * Wide input voltage (200 V to 400 V DC) for satellite transmission



In this catalogue we offer models which are in general use.

Our standard product range includes many other versions with variations in supply voltage, speed, frequency.

Specific fans are available and can be made to customers' specification.

Our application engineers work constantly with our customers' specification to offer the best fan selection...

In this way, many special units are produced both for commercial and military applications.

Our test laboratories in Paris are available for customers to test their prototype equipment in order to determine the optimum cooling solution.

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I. Selecting a fan - II. Aerodynamic fan types - III. Fans motor types - IV. Fan structure - V. Technologies - VI. Options - VII. R & D and test equipment - VIII. Norms & approvals - IX. Life expectancy - X. Catalogue data

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Fans families classified according to size and performance

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DC Centrifugal Blowers 113 to 120

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Fans Accessories 147 to 165

Filters - Finger guards - Adapters - Fixing parts - Plugs and cables - Capacitors - Alarm relays

Appendix 167 to 172

Panel cutouts - Unit tables - Temperature classes - IP - Product index

I - SELECTING A FAN

Forced convection cooling is an effective solution to dissipate heat in electronic equipment. This technical guide will help you to determine the performance of the required fan for your application.

BASIC REQUIREMENTS

VOLTAGE: The first step is to determine the nominal voltage; this can be AC or DC. ETRI fans cover all voltage ranges from 5 V to 500 V.

DIMENSIONS: Optimising performance within the available space envelope is the most important criteria. ETRI offers a complete range of fans and blowers from 25 x 25 x 10 mm up to Ø 350 mm.

DETERMINING NECESSARY AIRFLOW

Dissipated power has to be determined first. If this value is unknown, the estimation can be done by taking the power consumed by the equipment and the efficiency (which is approximately 75 % for electronics equipment).

Example :

Consumed power = 500 W

Power to be dissipated : 500 x 25 % = 125 W

The graph below (fig1) shows how to calculate the airflow according to the dissipated power, using the formula:

$$\text{Airflow (l/s)} = \frac{P(W)}{1,2 \times \Delta t}$$

This calculation does not take into consideration pressure drop, which has a direct impact on the airflow. Pressure drop is defined in the next paragraph.

CALCULATING NECESSARY STATIC PRESSURE

Each component mounted in the equipment opposes a resistance to air circulation. These accumulated resistances are called "pressure drop". The pressure drop is balanced by the fan static pressure which is expressed in mmH₂O or in Pa.

The necessary airflow of the fan must be specified at a certain static pressure.

Pressure drop is not easily calculable, especially in complex equipment. In cooling applications, pressure drop can be calculated according to duct diameter, length, bends or other deviations. Here is one basic principle to calculate pressure drop:

A specified fan, which air performance is known, is mounted on the equipment. The air speed can be measured at the outlet of the equipment with an anemometer. The airflow is calculated as follows:

A = Airflow (l/s)
O = Outlet Section (cm²)
S = Air Speed (m/s)

$$A = \frac{S \times O}{10}$$

The static pressure, corresponding to the measured airflow, can therefore be read on the fan performance curve.

The value of this static pressure is the second parameter to consider when selecting a fan.

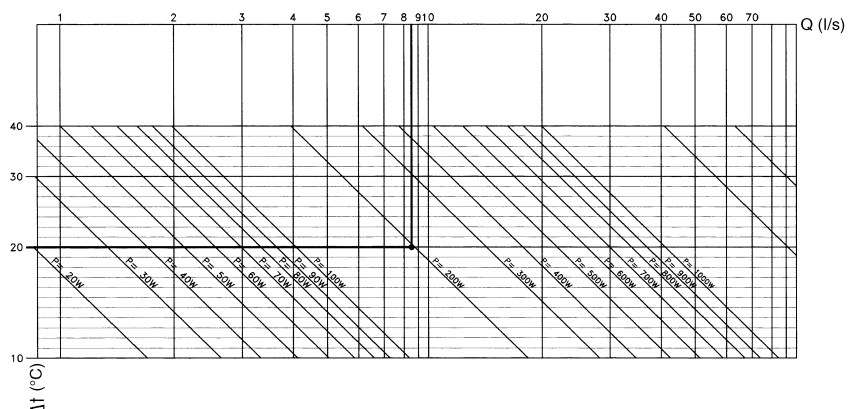
Fig.1 - Determining necessary airflow

P: represents the power to be dissipated (in watts)
Δt: represents the temperature difference between internal temperature of the equipment and ambient temperature
Q: represents the airflow of the fan = $\frac{P(W)}{1,2 \times \Delta t}$ L/s

THE AIRFLOW IS DETERMINED BY THE PROJECTION ON THE GRAPH BELOW FROM THE INTERSECTION POINT OF THE LINES W AND ΔT ON THE AIRFLOW SCALE.

Example: given power to dissipate: 200 W
Δt: 20°C.

Necessary airflow to cool is: 8,5 l/s.



CHOOSING THE APPROPRIATE FAN OR BLOWER WITH THE WORKING POINT

The combination of necessary airflow and static pressure gives a value which is called working point. It is now very easy to choose the appropriate fan or blower, by selecting a model in the catalogue, which curve meets the working point (see fig 2).

OPTIMISING FAN SELECTION

If the air requirement is high, and available space limited, it is possible to double the airflow at free delivery by putting two fans in parallel or to increase the pressure by putting two fans in series.

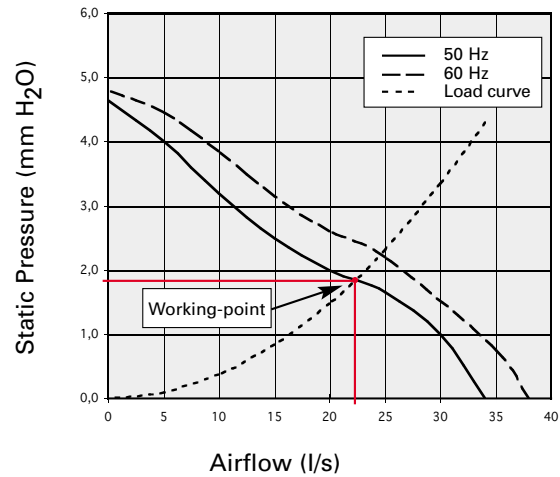
The noise level will then increase by approximately 3dBA depending on the fan model.

The next chapter shows the benefits of the different fan designs.

Example:

Working point: 22 l/s at 1,8 mm H₂O

Fig.2



Important notice !

About fans performance:

Values indicated in this catalogue are based on free delivery (no pressure value) and shutoff (no flow condition).

II - AERODYNAMIC FAN TYPES

These drawings describe the air direction for each aerodynamic fan type.

AXIAL FANS

Benefits:

- High airflow
- Low static pressure
- Motor cooled by the flow
- Low noise

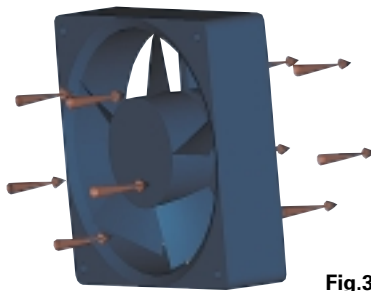


Fig.3

BACKWARD CURVED FANS

Benefits:

- Best design for combination of high airflow and high static pressure

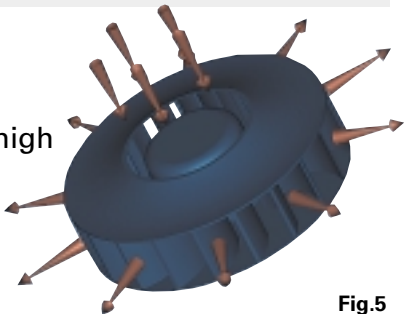


Fig.5

CENTRIFUGAL BLOWERS

Benefits:

- Low airflow
- High static pressure
- Best design to create over or under pressure

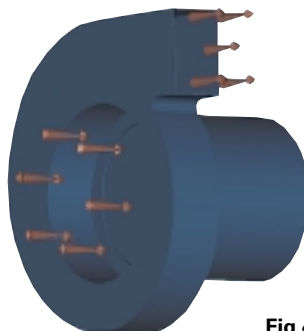


Fig.4

CROSS FLOW FANS

Benefits:

- High static pressure
- Best design to spread the airflow on a wide surface

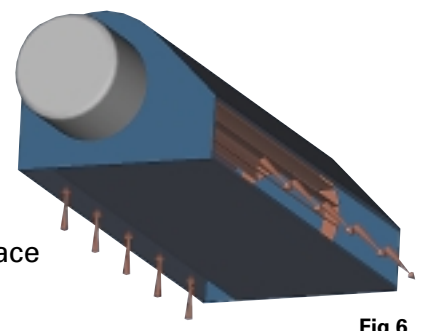


Fig.6

III - FANS MOTOR TYPES

Single phase motor

This is the most popular design of our AC fans. It is made up of a wound stator with shaded pole for better starting and squirrel cage rotor with aluminium grade 5 conductor bar.

Dual phase motor with splitting capacitor

The stator is made up of two separate windings: A power primary winding, and a secondary winding connected to the capacitor to create the splitting, and a squirrel cage rotor with aluminium grade 5 conductor bar.

Three phase motor

The stator is made up of three separate windings that can be STAR/DELTA connected.

Squirrel cage rotor with aluminium grade 5 conductor bar for 50/60 versions and copper conductor bar for 400 Hz versions.

These types of motors can be used in single phase by adding a split capacitor.

DC motors

All our DC fans use brushless DC motors with electronic commutation technology for extended life time.

They offer a wide input range (3: 1), and external or internal rotor with 3000 to 8000 gauss magnets.

All electronic components are surface mount.

IV - FAN STRUCTURE

The main parts of any fan are the housing, the impeller, the rotor and the stator.

The housing is the stationary part which guides the air or gas.

The impeller is the rotating part which transfer energy to the fluid.

The impeller's main working surfaces are the blades. They are generally made of UL94V0 plastic.

The rotor is made of a magnet and a yoke (DC fans).

The stator is made up of steel plates and a winding.

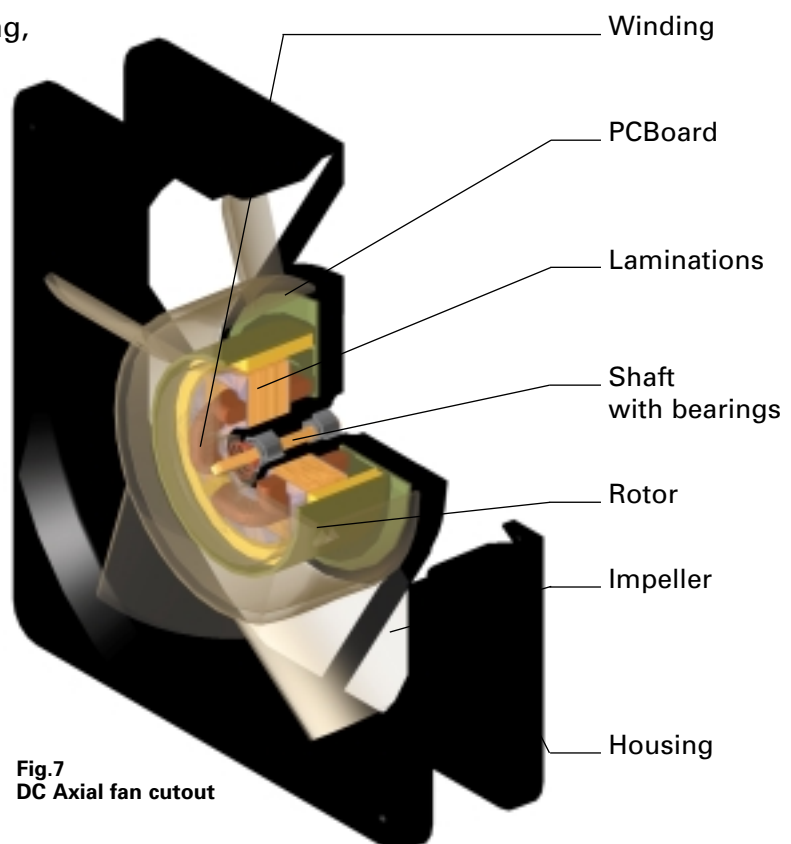


Fig.7
DC Axial fan cutout

V - TECHNOLOGIES

BEARING SYSTEMS

The fan rotors are equipped with two sleeve bearings or 2 sealed ball bearings lubricated for life, according to the required life expectancy, noise level and environmental conditions. They can also be equipped with of mixed bearings system. Shielded, stainless steel bearings, very high temperature grease are available for extended temperature range.

DESIGN CODE

Our fans can be made in accordance with four internal manufacturing codes which are identified as follows:

- a) according to the maximum air temperature at the inlet of the fan
- b) according to the climatic environment (humidity, tropical surroundings, etc.)

The manufacturing methods are coded as follows:

CODE 11 - Suitable for fans to operate in an atmosphere without special humidity conditions.

CODE 13 - Suitable for fans to operate in an atmosphere between - 10°C and + 70°C in humid

tropical environment. In particular, protection against humidity complies with norm NFC20703 (test 3B 21 days) # MIL STD 202* methode 103B.

CODE 14 - The reference is followed by 3 digits. They are allocated to each individual case. This requirement is always produced to customers' specification. It is suitable for fans to operate in temperatures lower than - 10°C and higher than + 70°C or in special environmental conditions.

CODE 17 - This manufacturing method could apply to marine specifications.

- Salt spray protection (non operating) E 507 specification issued by RCPM. Paragraph 3-21. Severity 6.
- Dry heat (non operating) E 507 specification issued by RCPM-Paragraph 3-21. Severity 5.
- Damp heat (operating) NFC 20703 specification (severity 5 Ref.3B) # MIL STD 202* methode 103B.
- Shocks (operating) NFC 20727 specification (test 8B. Severity 30 A / 30 g - 11 ms) # MIL STD 202* methode 213B.
- Vibrations (operating) E508 specification issued by RCPM. Paragraph 2-32 (23 Hz; +- 1 mm, 1 hour)

This manufacturing method applies to most of ball-bearing fan versions.

VI - OPTIONS

DEGREES OF PROTECTION - IP

ETRI supplies a full range of AC and BDC fans offering high level of protection against dust or water.

Most of our standard models, and all our high performance fans are available with protection for use in specific conditions, up to IP55 environments.

For more information regarding the protection levels, [see the corresponding table page 170](#).

VARIABLE SPEED

The "VARIOSPEED" option is now available on some BDC series. With this option, the speed

rotation will vary according to the ambient temperature.

For more information regarding the VARIOSPEED Fans, please consult factory.

SPEED SENSORS AND ALARM SIGNALS

Most ETRI DC and AC Fans feature a speed sensor that detects number of pulses per revolution or a rotation detector (on/off signal) which indicates if the fan works correctly.

These options are codified as follow:

Speed sensor: 3 - Eg.: 280DH2LP13000

Alarm: 4 - Eg.: 280DH2LP14000

ETRI provides also a full range of alarm box (relay + dry contact) to read directly the speed sensor or alarm signal ([see pages 163-165](#)).

OPERATING PARAMETERS OF SPEED SENSORS AND ROTATION DETECTORS

The hall effect probe positionned on the rotor generates a pulse at each rotation of the magnet pole (north or south).

This pulse will saturate an open collector which is directly mounted on the electronic circuit of the fan.

VCE max and IC max will vary according to the type of transistor used. Consult factory to get this information.

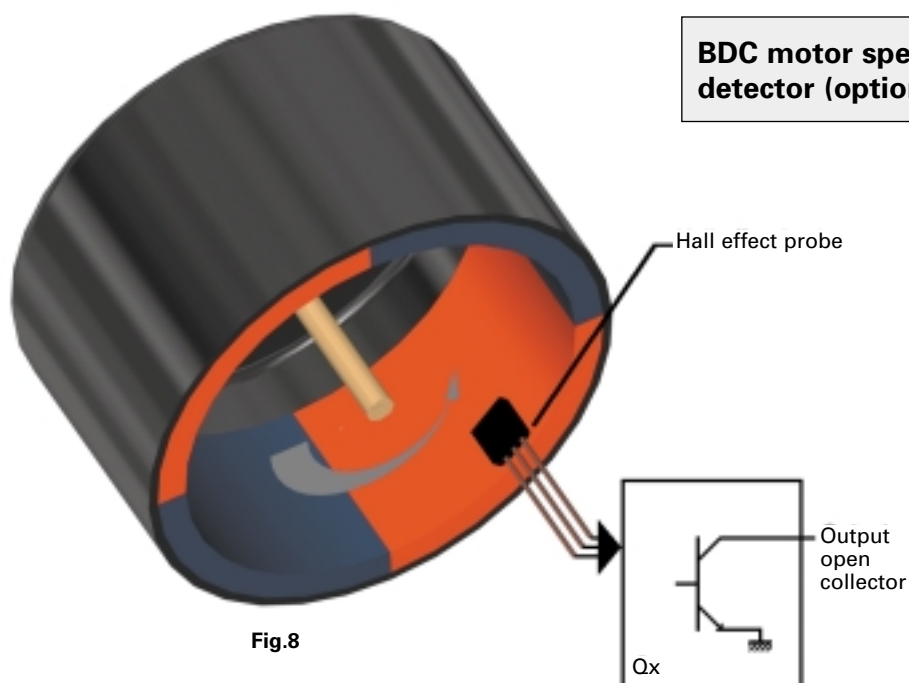


Fig.8

AC motor speed sensor or rotation detector (option: 5,1 V TTL compatible)

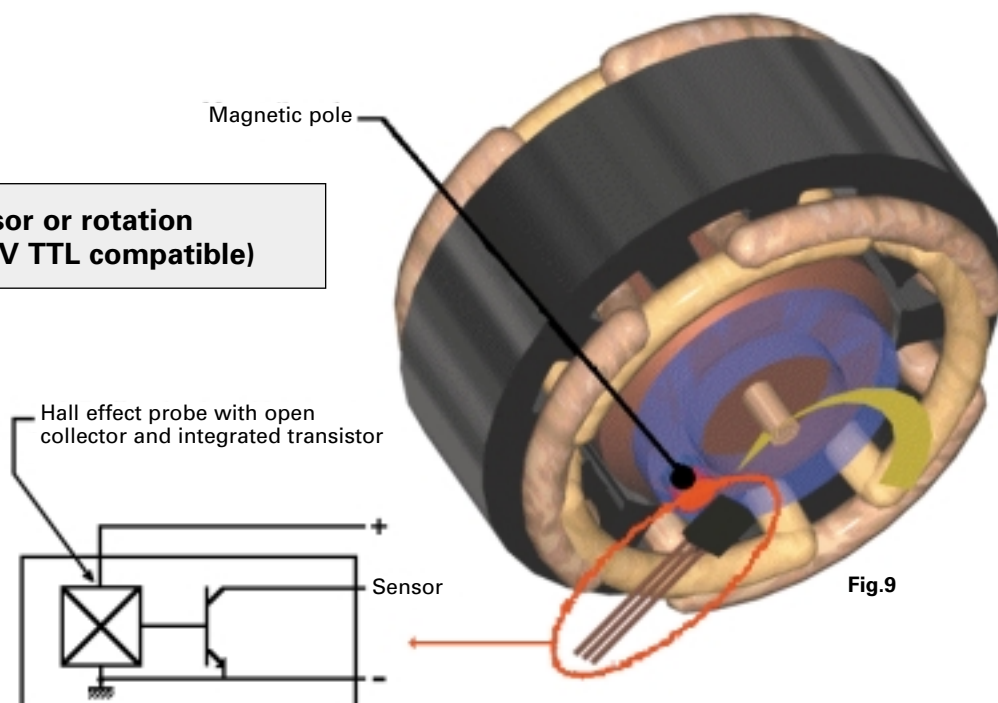
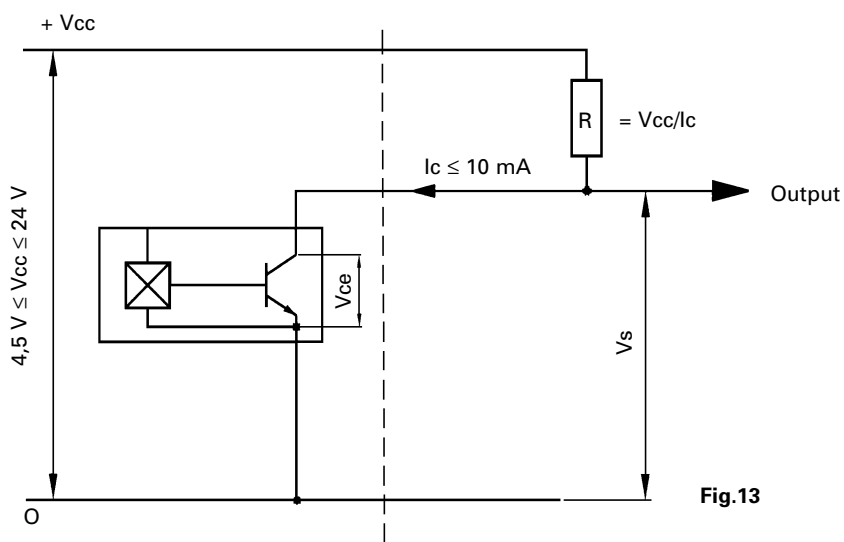


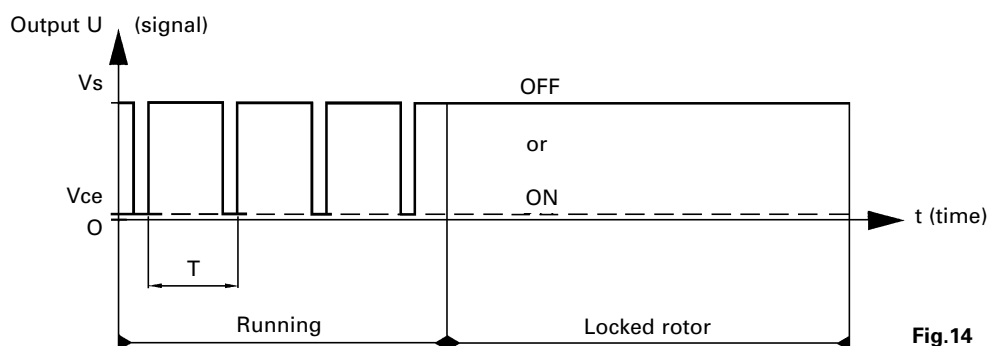
Fig.9

Output signals for AC motors

Diagram



Speed Sensor Output



$$T = \frac{60}{N \times n}$$

T: Seconds

N: Nominal speed

n: Quantity of South poles (depending on part number)

OPERATING PARAMETERS OF ALARM RELAYS

The well speed rotation information is treated by our RA alarm box (see pages 163-165).

The reference cable-up (under speed rotation) starts the alarm.

The information is available through an open collector, a relay or a photo-coupler (galvanic isolation).

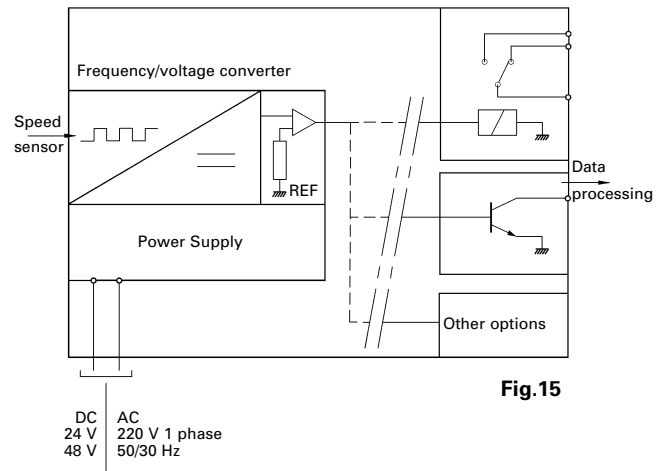


Fig.15

VII - R & D AND TEST EQUIPMENT

AERODYNAMIC TESTS

All the aerodynamic performance curves given in the catalogue have been obtained by using test chamber with submerged orifice and auxiliary fan, described in Standard Specification CCT 18-10. The performance curves are for an air density of 1.2 kg/m^3 (0.075 lb/ft^3).

Test equipments

Description of the test equipment, method and use, the necessary formula for calculating flow and pressure from instrument readings are given in detail in CCT 18-10, to which reference should be made for further information. Details are given here of the test equipment and its functioning from a practical viewpoint. The test equipment takes the form of a large cylindrical chamber arranged to take at one end the fan under test and extended at the other end by a duct connected to the auxiliary fan. In the duct

there is a shutter (b) and an inlet for ambient air, which is controlled by shutter (a). An air tight bulkhead is situated in the cylindrical chamber in which is the orifice for measuring flow. Pressure tapings P2 and P3 are positioned one on each side of the orifice. Pressure tapping P1 is situated close to the end wall on which the fan under test is mounted.

Because of the large dimensions of the chamber in relation to the fan under test, the dynamic pressure due to the velocity of the air is completely lost and static pressure is read directly from a manometer connected to the cancel out the aerodynamic resistance of the equipment, thereby allowing the fan under test to operate at free air conditions.

Operation (Fig.16)

With the fan under test and the auxiliary fan both running, shutters (a) and (b) are adjusted to give a zero reading of static pressure on P1.

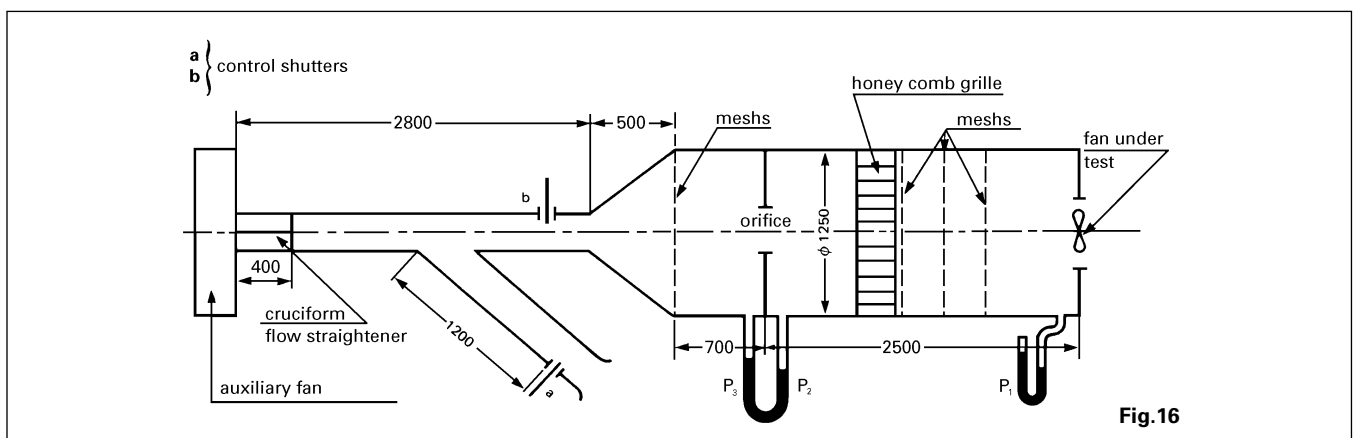


Fig.16

The corresponding flow is calculated from the pressure differential P1-P3 and is the free air-flow. By progressively closing shutter (b) at each position a flow and static pressure can be obtained, up to the point of complete closure which corresponds to the shut off pressure.

The values of flow and pressure thus obtained (corrected if the density differs from 1.2 kg/m^3 at the time of the test) can be plotted as the fan aerodynamic performance curve, such as those given in the technical leaflets. Experience has shown us moreover that tests made with our chamber give results very close to those obtained with the chamber described in MIL-B-23071 Standard which is based on the test equipment of AMCA, Standard Test Code, bulletin 210. These test rigs that of CCT 18-10 are based on the principle sometimes called "by chamber" and always give lower results than those based on the principle of "venturi", where part of the dynamic pressure developed by the impeller is recovered as static pressures, that tends to give static pressures higher than the true value.

MECHANICAL METROLOGY

Our laboratory includes extensive equipment (eg.: laser recorders) to measure mechanical dimensions with extreme accuracy (up to $1/10 \mu\text{m}$).

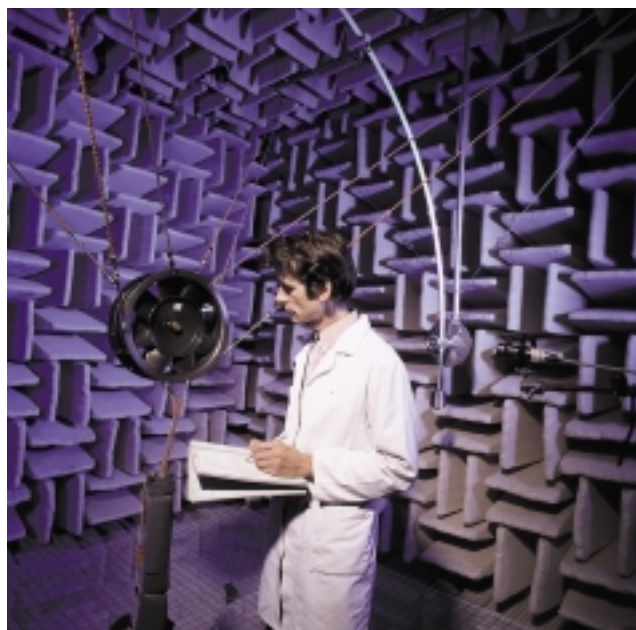
INSTRUMENTATION

Our equipments allow us to design and test electric and electronic parts:

- Reliability: several cabinets for environmental conditions tests (temperature, humidity, salt spray), and accelerated ageing tests.
- Shocks and vibrations: extensive testing can be completed with a vibration pot.

ACOUSTIC TEST

We are equipped to perform noise level tests in our own sound proof chamber. The fan under test is supported on elastic mounts in the center of the test chamber. A microphone is placed 1 meter from the center line of the fan and is connected to instrumentation that includes a measuring amplifier, a condenser microphone, a pass-band filter, and a recorder.



6 sides sound proof chamber

RESEARCH AND DEVELOPMENT

All our R & D files are stored on computerized technical data base including data-sheets libraries.

All our designs are done with computer assisted programs such as AUTOCAD, ORCAD and I-DEAS which are compatible with our production computer system.

VIII - NORMS AND APPROVALS

Most of our products are UL, CSA and VDE approved and according to the european directives they comply with EMI and electrical safety norms.

Certificates are available on request.



IX - LIFE EXPECTANCY

The mechanical and electrical design, the choice of materials, and the high level of inspection give our fans excellent reliability. Special attention is given to bearings, both in design and production, i.e.: choice of bearings and lubricants, accurate machining, strict alignment, very careful balancing and inspection of 100 % of finished fans.

Life expectancy is calculated on a L-10 basis.

The following curves describe the life expectancy of the fans at a given temperature, after which 90 % of them are still operating.

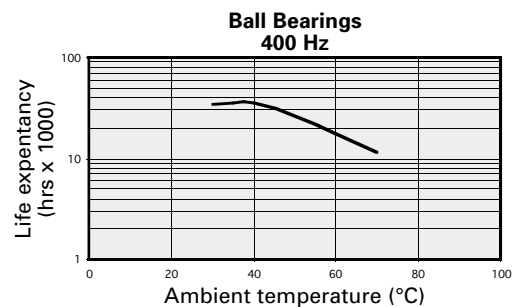
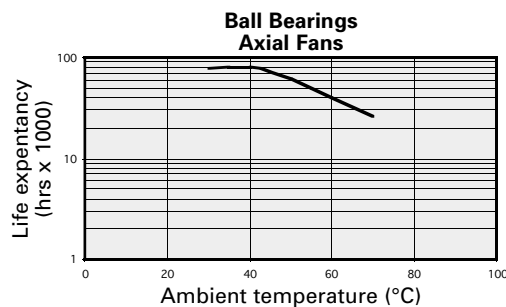
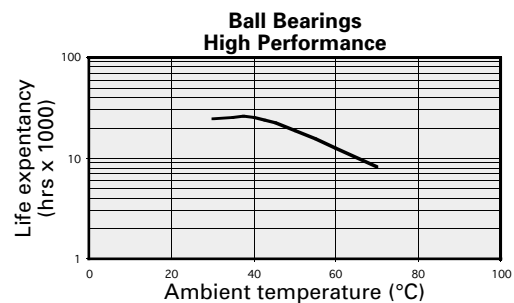
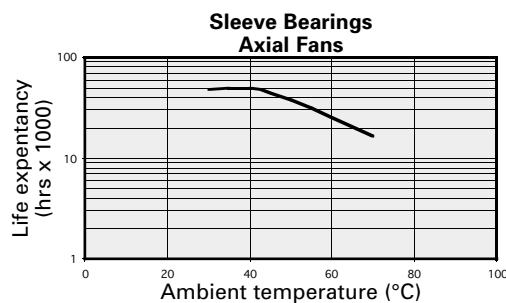


Fig.17



X - CATALOGUE DATA

ELECTRICAL, AERODYNAMIC AND ACOUSTIC DATA

The following information can be found in the data tables:

- Nominal voltages and frequency.
- Capacitor values for equipment operating on single phase current.
- Rated speed which is an approximate value of the fan speed operating at free air.
- Power consumption and line current for maximum output.
- Locked rotor current which is used to determine the value of the protection device.
- Maximum air output which is the output at free air.
- Maximum static pressure corresponding to the pressure at no flow condition.
- Total noise level in decibels from the equilibrium

curve A measured 1 meter from the air inlet, the fan operating in free air.

For more details, please see part I and VII.

AERODYNAMIC GRAPHS

The aerodynamic graphs are constructed using a test chamber and method described in CCT Standard 18.10. They are drawn up for an air density of 1,2 kg/m³.

TOLERANCES

The values shown in the data tables and the various graphs have been measured from standard design equipment and should be considered nominal. Without particular specifications, we accept the tolerances described at the beginning of each chapter.

DC AXIAL FANS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
25 x 25 x 10	5	1,1	2,4	7,7	0,30	28,0	290DS	x	x	x	x	28
	5	0,9	1,8	4,5	0,18	23,5	290DH	x	x	x	x	28
	5	0,6	1,2	2,2	0,09	20,0	290DM	x	x	x	x	28
	5	0,4	0,9	1,2	0,05	18,0	290DL	x	x	x	x	28
	12	1,1	2,4	7,7	0,30	28,0	290DS	x	x	x	x	28
	12	0,9	1,8	4,5	0,18	23,5	290DH	x	x	x	x	28
	12	0,6	1,2	2,2	0,09	20,0	290DM	x	x	x	x	28
	12	0,4	0,9	1,2	0,05	18,0	290DL	x	x	x	x	28
30 x 30 x 10	5	1,7	3,5	2,5	0,10	25,0	260DH	x	x	x	x	29
	5	1,4	3,0	1,5	0,06	20,0	260DM	x	x	x	x	29
	5	1,1	2,4	1,0	0,04	17,5	260DL	x	x	x	x	29
	12	1,7	3,5	2,5	0,10	25,0	260DH	x	x	x	x	29
	12	1,4	3,0	1,5	0,06	20,0	260DM	x	x	x	x	29
	12	1,1	2,4	1,0	0,04	17,5	260DL	x	x	x	x	29
35 x 35 x 10	5	2,6	5,5	2,7	0,10	22,0	263DH	x	x	x	x	30
	5	2,1	4,5	1,9	0,07	18,0	263DM	x	x	x	x	30
	5	1,7	3,5	1,2	0,05	15,0	263DL	x	x	x	x	30
	12	2,6	5,5	2,7	0,10	22,0	263DH	x	x	x	x	30
	12	2,1	4,5	1,9	0,07	18,0	263DM	x	x	x	x	30
	12	1,7	3,5	1,2	0,05	15,0	263DL	x	x	x	x	30
40 x 40 x 10	5	2,2	4,6	3,2	0,13	28,0	276DM	x	x	x	x	31
	5	1,8	3,9	2,0	0,08	25,0	276DL	x	x	x	x	31
	12	2,7	5,7	4,7	0,19	35,0	276DH	x	x	x	x	31
	12	2,2	4,6	3,2	0,13	28,0	276DM	x	x	x	x	31
	12	1,8	3,9	2,0	0,08	25,0	276DL	x	x	x	x	31
40 x 40 x 20	5	4,8	10,1	10,6	0,42	32,5	380DX	x	x	x	x	33
	5	4,5	9,4	9,0	0,35	30,5	380DS	x	x	x	x	33
	5	4,0	8,5	7,7	0,30	28,5	380DH	x	x	x	x	33
	5	4,0	8,5	5,8	0,23	33,0	280DH	x	x	x	x	32
	5	3,4	7,2	5,5	0,22	24,0	380DM	x	x	x	x	33
	5	3,3	7,0	4,0	0,16	30,0	280DM	x	x	x	x	32
	5	2,6	5,5	3,5	0,14	22,0	380DL	x	x	x	x	33
	5	2,6	5,6	2,5	0,10	25,0	280DL	x	x	x	x	32
	12	4,8	10,1	10,6	0,42	32,5	380DX	x	x	x	x	33
	12	4,5	9,4	9,0	0,35	30,5	380DS	x	x	x	x	33
	12	4,4	9,4	7,1	0,28	36,0	280DS	x	x	x	x	32
	12	4,0	8,5	7,7	0,30	28,5	380DH	x	x	x	x	33
	12	4,0	8,5	5,8	0,23	33,0	280DH	x	x	x	x	32
	12	3,4	7,2	5,5	0,22	24,0	380DM	x	x	x	x	33
	12	3,3	7,0	4,0	0,16	30,0	280DM	x	x	x	x	32
	12	2,6	5,5	3,5	0,14	22,0	380DL	x	x	x	x	33
	12	2,7	5,7	2,5	0,10	25,0	280DL	x	x	x	x	32
	24	4,8	10,1	10,6	0,42	32,5	380DX	x	x	x	x	33
	24	4,5	9,4	9,0	0,35	30,5	380DS	x	x	x	x	33
	24	4,4	9,4	7,1	0,28	36,0	280DS	x	x	x	x	32
	24	4,0	8,5	7,7	0,30	28,5	380DH	x	x	x	x	33
	24	4,0	8,5	5,8	0,23	33,0	280DH	x	x	x	x	32
	24	3,4	7,2	5,5	0,22	24,0	380DM	x	x	x	x	33
	24	3,3	7,0	4,0	0,16	30,0	280DM	x	x	x	x	32
	24	2,6	5,5	3,5	0,14	22,0	380DL	x	x	x	x	33
	24	2,6	5,6	2,5	0,10	25,0	280DL	x	x	x	x	32
50 x 50 x 10	12	5,4	11,4	4,2	0,17	30,0	373DH	P	P	P	P	34
	12	4,4	9,2	2,9	0,11	25,0	373DM	P	P	P	P	34
	12	3,5	7,5	1,7	0,07	18,0	373DL	P	P	P	P	34
50 x 50 x 15	5	6,7	14,1	6,1	0,24	32,0	274DH	x	x	x	x	35
	5	5,8	12,4	4,6	0,18	28,0	274DM	x	x	x	x	35
	5	4,7	9,9	3,2	0,13	24,0	274DL	x	x	x	x	35
	12	7,7	16,3	8,0	0,31	36,0	274DS	x	x	x	x	35

Selection guide

DC AXIAL FANS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
	12	6,7	14,1	6,1	0,24	32,0	274DH	x	x	x	x	35
	12	5,8	12,4	4,6	0,18	28,0	274DM	x	x	x	x	35
	12	4,7	9,9	3,2	0,13	24,0	274DL	x	x	x	x	35
	24	7,7	16,3	8,0	0,31	36,0	274DS	x	x	x	x	35
	24	6,7	14,1	6,1	0,24	32,0	274DH	x	x	x	x	35
	24	5,8	12,4	4,6	0,18	28,0	274DM	x	x	x	x	35
	24	4,7	9,9	3,2	0,13	24,0	274DL	x	x	x	x	35
60 x 60 x 10	5	7,8	16,6	3,6	0,14	35,0	279DH	x	x	x	x	36
	5	6,2	13,1	2,7	0,11	31,0	279DM	x	x	x	x	36
	5	5,0	10,6	1,9	0,07	27,0	279DL	x	x	x	x	36
	12	7,8	16,6	3,6	0,14	35,0	279DH	x	x	x	x	36
	12	6,2	13,1	2,7	0,11	31,0	279DM	x	x	x	x	36
	12	5,0	10,6	1,9	0,07	27,0	279DL	x	x	x	x	36
60 x 60 x 15	12	8,2	17,3	5,0	0,20	35,0	282DS	x	x	x	P	37
	12	7,3	15,4	3,9	0,15	32,0	282DH	x	x	x	P	37
	12	6,4	13,5	3,0	0,12	29,0	282DM	x	x	x	P	37
	12	5,5	11,6	2,2	0,09	24,0	282DL	x	x	x	P	37
	24	8,2	17,3	5,0	0,20	35,0	282DS	x	x	x	P	37
	24	7,3	15,4	3,9	0,15	32,0	282DH	x	x	x	P	37
	24	6,4	13,5	3,0	0,12	29,0	282DM	x	x	x	P	37
	24	5,5	11,6	2,2	0,09	24,0	282DL	x	x	x	P	37
60 x 60 x 20	5	8,7	18,4	5,8	0,23	31,0	272DS	x	x	x	x	39
	5	7,8	16,6	4,8	0,19	28,0	272DH	x	x	x	x	38
	5	7,0	14,8	3,8	0,15	26,0	272DM	x	x	x	x	38
	5	6,2	13,1	3,0	0,12	24,0	272DL	x	x	x	x	38
	12	9,3	19,8	7,0	0,28	33,0	272DX	x	x	x	x	39
	12	8,7	18,4	5,8	0,23	31,0	272DS	x	x	x	x	39
	12	7,8	16,6	4,8	0,19	28,0	272DH	x	x	x	x	38
	12	7,0	14,8	3,8	0,15	26,0	272DM	x	x	x	x	38
	12	6,2	13,1	3,0	0,12	24,0	272DL	x	x	x	x	38
	24	9,3	19,8	7,0	0,28	33,0	272DX	x	x	x	x	39
	24	8,7	18,4	5,8	0,23	31,0	272DS	x	x	x	x	39
	24	7,8	16,6	4,8	0,19	28,0	272DH	x	x	x	x	38
	24	7,0	14,8	3,8	0,15	26,0	272DM	x	x	x	x	38
	24	6,2	13,1	3,0	0,12	24,0	272DL	x	x	x	x	38
60 x 60 x 25	5	9,2	19,4	4,9	0,19	30,0	281DH	x	x	x	x	40
	5	7,7	16,3	3,6	0,14	24,5	281DM	x	x	x	x	40
	5	6,7	14,1	2,5	0,10	24,5	281DL	x	x	x	x	40
	12	17,8	37,6	15,3	0,60	46,5	281DY	x	x	x	x	41
	12	15,4	32,5	12,3	0,48	42,5	281DZ	x	x	x	x	41
	12	14,2	30,0	10,3	0,40	39,5	281DX	x	x	x	x	41
	12	10,8	22,9	7,0	0,27	33,0	281DS	x	x	x	x	40
	12	9,2	19,4	4,9	0,19	28,0	281DH	x	x	x	x	40
	12	7,7	16,3	3,6	0,14	24,5	281DM	x	x	x	x	40
	12	6,7	14,1	2,7	0,11	22,5	281DL	x	x	x	x	40
	24	17,8	37,6	15,3	0,60	46,5	281DY	x	x	x	x	41
	24	15,4	32,5	12,3	0,48	42,5	281DZ	x	x	x	x	41
	24	14,2	30,0	10,3	0,40	39,5	281DX	x	x	x	x	41
	24	10,8	22,9	7,0	0,27	33,0	281DS	x	x	x	x	40
	24	9,2	19,4	4,9	0,19	28,0	281DH	x	x	x	x	40
	24	7,7	16,3	3,6	0,14	24,5	281DM	x	x	x	x	40
	24	6,7	14,1	2,7	0,11	22,5	281DL	x	x	x	x	40
	48	17,8	37,6	15,3	0,60	46,5	281DY	x	x	x	x	41
	48	15,4	32,5	12,3	0,48	42,5	281DZ	x	x	x	x	41
	48	14,2	30,0	10,3	0,40	39,5	281DX	x	x	x	x	41
	48	10,8	22,9	7,0	0,27	33,0	281DS	x	x	x	x	40
	48	9,2	19,4	4,9	0,19	28,0	281DH	x	x	x	x	40
	48	7,7	16,3	3,6	0,14	24,5	281DM	x	x	x	x	40

DC AXIAL FANS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
62 x 62 x 15	48	6,7	14,1	2,7	0,11	22,5	281DL	x	x	x	x	40
	5	3,4	7,2	0,6	0,02	28,0	171DM		x	x		42
	12	5,9	12,5	1,8	0,07	30,0	171DH		x	x		42
	24	5,9	12,5	1,8	0,07	30,0	171DH		x	x		42
70 x 70 x 25	5	11,3	24,0	4,5	0,18	32,0	291DH	x	x	x	x	43
	5	9,5	20,1	3,2	0,12	28,0	291DM	x	x	x	x	43
	5	8,0	17,0	2,5	0,10	24,5	291DL	x	x	x	x	43
	12	12,8	27,2	5,5	0,22	35,0	291DS	x	x	x	x	43
	12	11,3	24,0	4,5	0,18	32,0	291DH	x	x	x	x	43
	12	9,5	20,1	3,2	0,12	28,0	291DM	x	x	x	x	43
	12	8,0	17,0	2,5	0,10	24,5	291DL	x	x	x	x	43
	24	12,8	27,2	5,5	0,22	35,0	291DS	x	x	x	x	43
	24	11,3	24,0	4,5	0,18	32,0	291DH	x	x	x	x	43
	24	9,5	20,1	3,2	0,12	28,0	291DM	x	x	x	x	43
	24	8,0	17,0	2,5	0,10	24,5	291DL	x	x	x	x	43
	48	12,8	27,2	5,5	0,22	35,0	291DS	x	x	x	x	43
	48	11,3	24,0	4,5	0,18	32,0	291DH	x	x	x	x	43
	48	9,5	20,1	3,2	0,12	28,0	291DM	x	x	x	x	43
	48	8,0	17,0	2,5	0,10	24,5	291DL	x	x	x	x	43
80 x 80 x 15	12	20,2	42,7	5,5	0,22	42,5	230DZ	x	x	x	x	45
	12	18,5	39,2	4,8	0,19	39,5	230DX	x	x	x	x	45
	12	16,8	35,7	4,0	0,16	37,0	230DS	x	x	x	x	44
	12	15,8	33,5	3,5	0,14	34,0	230DH	x	x	x	x	44
	12	13,3	28,2	2,7	0,11	30,5	230DM	x	x	x	x	44
	12	11,7	24,7	2,2	0,09	27,5	230DL	x	x	x	x	44
	24	20,2	42,7	5,5	0,22	42,5	230DZ	x	x	x	x	45
	24	18,5	39,2	4,8	0,19	39,5	230DX	x	x	x	x	45
	24	16,8	35,7	4,0	0,16	37,0	230DS	x	x	x	x	44
	24	15,8	33,5	3,5	0,14	34,0	230DH	x	x	x	x	44
	24	13,3	28,2	2,7	0,11	30,5	230DM	x	x	x	x	44
	24	11,7	24,7	2,2	0,09	27,5	230DL	x	x	x	x	44
80 x 80 x 20	12	13,0	27,5	2,5	0,10	29,0	173DH		x	x		46
	24	13,0	27,5	2,5	0,10	29,0	173DH		x	x		46
80 x 80 x 25	5	16,7	35,3	4,0	0,16	31,0	246DH	x	x	x	x	48
	5	14,8	31,4	3,3	0,13	28,0	246DM	x	x	x	x	48
	5	13,2	27,9	2,6	0,10	25,0	246DL	x	x	x	x	48
	12	22,0	46,6	10,9	0,43	44,0	146DS	x				47
	12	22,0	46,6	6,8	0,27	40,0	246DZ	x	x	x	x	49
	12	19,8	42,0	5,5	0,22	39,0	246DX	x	x	x	x	49
	12	17,7	37,4	2,2	0,08	34,0	246DS	x	x	x	x	49
	12	16,7	35,3	4,0	0,16	31,0	246DH	x	x	x	x	48
	12	14,8	31,4	3,3	0,13	28,0	246DM	x	x	x	x	48
	12	13,2	27,9	2,6	0,10	25,0	246DL	x	x	x	x	48
	24	22,0	46,6	10,9	0,43	44,0	146DS	x				47
	24	22,0	46,6	6,8	0,27	40,0	246DZ	x	x	x	x	49
	24	19,8	42,0	5,5	0,22	39,0	246DX	x	x	x	x	49
	24	17,7	37,4	4,6	0,18	34,0	246DS	x	x	x	x	49
	24	16,7	35,3	4,0	0,16	31,0	246DH	x	x	x	x	48
	24	14,8	31,4	3,3	0,13	28,0	246DM	x	x	x	x	48
	24	13,2	27,9	2,6	0,10	25,0	246DL	x	x	x	x	48
	48	22,0	46,6	10,9	0,43	44,0	146DS	x				47
	48	16,7	35,3	4,0	0,16	31,0	246DH	x	x	x	x	48
	48	14,8	31,4	3,3	0,13	28,0	246DM	x	x	x	x	48
	48	13,2	27,9	2,6	0,10	25,0	246DL	x	x	x	x	48
80 x 80 x 38	12	37,8	80,2	20,6	0,81	52,5	344DY	P	P	P	P	50
	12	32,3	68,5	15,0	0,59	48,5	344DZ	P	P	P	P	50
	12	27,0	57,2	10,8	0,42	44,5	344DX	P	P	P	P	50
	12	21,3	45,2	7,1	0,28	39,0	344DS	P	P	P	P	50

Selection guide

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Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
	24	37,8	80,2	20,6	0,81	52,5	344DY	P	P	P	P	50
	24	32,3	68,5	15,0	0,59	48,5	344DZ	P	P	P	P	50
	24	27,0	57,2	10,8	0,42	44,5	344DX	P	P	P	P	50
	24	21,3	45,2	7,1	0,28	39,0	344DS	P	P	P	P	50
	48	32,3	68,5	15,0	0,59	48,5	344DZ	P	P	P	P	50
	48	27,0	57,2	10,8	0,42	44,5	344DX	P	P	P	P	50
	48	21,3	45,2	7,1	0,28	39,0	344DS	P	P	P	P	50
92 x 92 x 15	12	12,5					174DH					51
	24	12,5					174DH					51
92 x 92 x 25	12	32,0	67,8	7,7	0,30	45,0	299DX	x	x	x	x	53
	12	27,3	57,8	5,6	0,22	38,0	299DS	x	x	x	x	53
	12	24,2	51,2	4,5	0,18	34,0	299DH	x	x	x	x	53
	12	20,7	43,8	3,3	0,13	30,0	299DM	x	x	x	x	52
	12	17,5	37,1	2,5	0,10	25,0	299DL	x	x	x	x	52
	24	32,0	67,8	7,7	0,30	45,0	299DX	x	x	x	x	53
	24	27,3	57,8	5,6	0,22	38,0	299DS	x	x	x	x	53
	24	24,2	51,2	4,5	0,18	34,0	299DH	x	x	x	x	53
	24	20,7	43,8	3,3	0,13	30,0	299DM	x	x	x	x	52
	24	17,5	37,1	2,5	0,10	25,0	299DL	x	x	x	x	52
	48	27,3	57,8	5,6	0,22	38,0	299DS	x	x	x	x	53
	48	24,2	51,2	4,5	0,18	34,0	299DH	x	x	x	x	53
	48	20,7	43,8	3,3	0,13	30,0	299DM	x	x	x	x	52
	48	17,5	37,1	2,5	0,10	25,0	299DL	x	x	x	x	52
92 x 92 x 38	12	52,0	110,2	16,9	0,67	55,0	341DY	P	P	P	P	55
	12	47,3	100,3	14,5	0,57	52,5	341DZ	P	P	P	P	55
	12	40,3	85,5	10,3	0,41	47,5	341DX	P	P	P	P	55
	12	33,8	71,7	7,6	0,30	42,5	341DS	P	P	P	P	55
	24	52,0	110,2	16,9	0,67	55,0	341DY	P	P	P	P	55
	24	47,3	100,3	14,5	0,57	52,5	341DZ	P	P	P	P	55
	24	40,3	85,5	10,3	0,41	47,5	341DX	P	P	P	P	55
	24	33,8	71,7	7,6	0,30	42,5	341DS	P	P	P	P	55
	24	31,0	65,7	24,6	0,97	53,0	99YW	x				54
	28	31,0	65,7	24,6	0,97	53,0	99YW	x				54
	48	47,3	100,3	14,5	0,57	52,5	341DZ	P	P	P	P	55
	48	40,3	85,5	10,3	0,41	47,5	341DX	P	P	P	P	55
	48	33,8	71,7	7,6	0,30	42,5	341DS	P	P	P	P	55
120 x 120 x 25	12	53,8	114,1	8,6	0,34	48,5	398DZ	P	P	P	P	57
	12	48,2	102,1	6,9	0,27	45,5	398DX	P	P	P	P	57
	12	45,0	95,3	5,6	0,22	42,5	298DS	x	x	x	x	56
	12	44,2	93,6	5,8	0,23	42,5	398DS	P	P	P	P	57
	12	40,8	86,4	4,8	0,19	37,6	298DH	x	x	x	x	56
	12	38,8	82,3	4,7	0,18	39,0	398DH	P	P	P	P	57
	12	34,2	72,4	3,4	0,13	34,0	298DM	x	x	x	x	56
	12	32,5	68,9	3,5	0,14	34,0	398DM	P	P	P	P	57
	12	29,2	61,8	2,7	0,10	30,2	298DL	x	x	x	x	56
	12	27,0	57,2	2,5	0,10	31,0	398DL	P	P	P	P	57
	24	53,8	114,1	8,6	0,34	48,5	398DZ	P	P	P	P	57
	24	48,2	102,1	6,9	0,27	45,5	398DX	P	P	P	P	57
	24	45,0	95,3	5,6	0,22	42,5	298DS	x	x	x	x	56
	24	44,2	93,6	5,8	0,23	42,5	398DS	P	P	P	P	57
	24	40,8	86,4	4,8	0,19	37,6	298DH	x	x	x	x	56
	24	38,8	82,3	4,7	0,18	39,0	398DH	P	P	P	P	57
	24	34,2	72,4	3,4	0,13	34,0	298DM	x	x	x	x	56
	24	32,5	68,9	3,5	0,14	34,0	398DM	P	P	P	P	57
	24	29,2	61,8	2,7	0,10	30,2	298DL	x	x	x	x	56
	24	27,0	57,2	2,5	0,10	31,0	398DL	P	P	P	P	57
	48	53,8	114,1	8,6	0,34	48,5	398DZ	P	P	P	P	57
	48	48,2	102,1	6,9	0,27	45,5	398DX	P	P	P	P	57

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DC AXIAL FANS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
	48	44,2	93,6	5,8	0,23	42,5	398DS	P	P	P	P	57
	48	38,8	82,3	4,7	0,18	39,0	398DH	P	P	P	P	57
	48	32,5	68,9	3,5	0,14	34,0	398DM	P	P	P	P	57
	48	27,0	57,2	2,5	0,10	31,0	398DL	P	P	P	P	57
120 x 120 x 32	5	49,0	103,8	7,4	0,29	42,5	158DH	x	P	P	P	58
	5	39,0	82,6	4,8	0,19	37,5	158DM	x	P	P	P	58
	5	27,0	57,2	2,2	0,09	29,5	158DL	x	P	P	P	58
	12	49,0	103,8	7,4	0,29	42,5	158DH	x	x	x	x	58
	12	39,0	82,6	4,8	0,19	37,5	158DM	x	x	x	x	58
	12	27,0	57,2	2,2	0,09	29,5	158DL	x	x	x	x	58
	24	49,0	103,8	7,4	0,29	42,5	158DH	x	x	x	x	58
	24	39,0	82,6	4,8	0,19	37,5	158DM	x	x	x	x	58
	24	27,0	57,2	2,2	0,09	29,5	158DL	x	x	x	x	58
	48	49,0	103,8	7,4	0,29	42,5	158DH	x	x	x	x	58
	48	39,0	82,6	4,8	0,19	37,5	158DM	x	x	x	x	58
	48	27,0	57,2	2,2	0,09	29,5	158DL	x	x	x	x	58
120 x 120 x 38	12	89,7	114,1	8,6	0,34	59,0	338DY	x	x	x	x	61
	12	80,7	170,9	14,3	0,56	56,5	338DZ	x	x	x	x	61
	12	71,7	151,8	14,5	0,57	53,0	235DZ	x	x	x	x	60
	12	71,7	151,8	11,3	0,36	53,0	338DX	x	x	x	x	61
	12	61,3	129,9	10,7	0,42	48,0	235DX	x	x	x	x	60
	12	56,7	120,1	9,0	0,35	44,0	235DS	x	x	x	x	60
	12	50,0	105,9	7,6	0,30	41,0	235DH	x	x	x	x	60
	12	44,8	95,0	6,0	0,24	38,0	235DM	x	x	x	x	60
	12	40,0	84,8	4,6	0,18	34,0	235DL	x	x	x	x	60
	24	89,7	114,1	8,6	0,34	59,0	338DY	x	x	x	x	61
	24	80,7	170,9	14,3	0,56	56,5	338DZ	x	x	x	x	61
	24	71,7	151,8	14,5	0,57	53,0	235DZ	x	x	x	x	60
	24	71,7	151,8	11,3	0,36	53,0	338DX	x	x	x	x	61
	24	61,3	129,9	10,7	0,42	48,0	235DX	x	x	x	x	60
	24	56,7	120,1	9,0	0,35	44,0	235DS	x	x	x	x	60
	24	50,0	105,9	7,6	0,30	41,0	235DH	x	x	x	x	60
	24	44,8	95,0	6,0	0,24	38,0	235DM	x	x	x	x	60
	24	40,0	84,8	4,6	0,18	34,0	235DL	x	x	x	x	60
	48	89,7	114,1	8,6	0,34	59,0	338DY	x	x	x	x	61
	48	80,7	170,9	14,3	0,56	56,5	338DZ	x	x	x	x	61
	48	71,7	151,8	11,3	0,36	53,0	338DX	x	x	x	x	61
	48	61,3	129,9	10,7	0,42	48,0	235DX	x	x	x	x	60
	48	56,7	120,1	9,0	0,35	44,0	235DS	x	x	x	x	60
	48	50,0	105,9	7,6	0,30	41,0	235DH	x	x	x	x	60
	48	44,8	95,0	6,0	0,24	38,0	235DM	x	x	x	x	60
	48	40,0	84,8	4,6	0,18	34,0	235DL	x	x	x	x	60
	110	49,0	103,8	7,4	0,29	42,5	125DH					59
127 x 127 x 38	12	94,4	200,0	19,2	0,76	58,5	337DZ	P	P	P	P	62
	12	87,3	185,0	16,4	0,64	55,5	337DX	P	P	P	P	62
	12	79,3	168,0	13,4	0,53	52,5	337DS	P	P	P	P	62
	12	71,1	150,7	10,7	0,42	49,5	337DH	P	P	P	P	62
	12	61,4	130,0	8,3	0,33	46,5	337DM	P	P	P	P	62
	12	53,3	113,0	6,5	0,25	43,0	337DL	P	P	P	P	62
	24	94,4	200,0	19,2	0,76	58,5	337DZ	P	P	P	P	62
	24	87,3	185,0	16,4	0,64	55,5	337DX	P	P	P	P	62
	24	79,3	168,0	13,4	0,53	52,5	337DS	P	P	P	P	62
	24	71,1	150,7	10,7	0,42	49,5	337DH	P	P	P	P	62
	24	61,4	130,0	8,3	0,33	46,5	337DM	P	P	P	P	62
	24	53,3	113,0	6,5	0,25	43,0	337DL	P	P	P	P	62
	48	87,3	185,0	16,4	0,64	55,5	337DX	P	P	P	P	62
	48	79,3	168,0	13,4	0,53	52,5	337DS	P	P	P	P	62
	48	71,1	150,7	10,7	0,42	49,5	337DH	P	P	P	P	62

Selection guide

DC AXIAL FANS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
172 x 150 x 38	48	61,4	130,0	8,3	0,33	46,5	337DM	P	P	P	P	62
	48	53,3	113,0	6,5	0,25	43,0	337DL	P	P	P	P	62
	12	110,0	233,1	12,5	0,49	57,0	148DH	x	x			63
	24	120,0	254,2	32,5	1,28	66,0	121DW					63
	24	112,0	237,3	12,0	0,47	58,0	148DH	x	x	x		63
	24	105,0	222,5	22,5	0,89	62,0	121DH	x				63
	28	120,0	254,2	32,5	1,28	66,0	121DW	x				63
	48	112,0	237,3	12,0	0,47	58,0	148DH	x	x	x		63
172 x 150 x 50	110	112,0	237,3	12,0	0,47	58,0	148DH					63
	12	132,0	279,7	20,3	0,80	57,5	352DS	x	x	x	x	65
	12	118,8	251,8	17,5	0,69	55,0	352DH	x	x	x	x	64
	12	108,7	230,3	14,5	0,57	52,0	352DM	x	x	x	x	64
	12	99,2	210,1	11,9	0,47	55,0	352DL	x	x	x	x	64
	24	153,3	325,0	27,5	1,08	63,0	352DZ	x	x	x	x	65
	24	142,7	302,3	23,8	0,94	60,0	352DX	x	x	x	x	65
	24	132,0	279,7	20,3	0,80	57,5	352DS	x	x	x	x	65
	24	118,8	251,8	17,5	0,69	55,0	352DH	x	x	x	x	64
	24	108,7	230,3	14,5	0,57	52,0	352DM	x	x	x	x	64
	24	99,2	210,1	11,9	0,47	55,0	352DL	x	x	x	x	64
	48	142,7	302,3	23,8	0,94	60,0	352DX	x	x	x	x	65
	48	132,0	279,7	20,3	0,80	57,5	352DS	x	x	x	x	65
	48	118,8	251,8	17,5	0,69	55,0	352DH	x	x	x	x	64
	48	108,7	230,3	14,5	0,57	52,0	352DM	x	x	x	x	64
	48	99,2	210,1	11,9	0,47	55,0	352DL	x	x	x	x	64
Ø 172 x 50	12	132,0	279,7	20,3	0,80	57,5	354DS	x	x	x	x	67
	12	118,8	251,8	17,5	0,69	55,0	354DH	x	x	x	x	66
	12	108,7	230,3	14,5	0,57	52,0	354DM	x	x	x	x	66
	12	99,2	210,1	11,9	0,47	55,0	354DL	x	x	x	x	66
	24	153,3	325,0	27,5	1,08	63,0	354DZ	x	x	x	x	67
	24	142,7	302,3	23,8	0,94	60,0	354DX	x	x	x	x	67
	24	132,0	279,7	20,3	0,80	57,5	354DS	x	x	x	x	67
	24	118,8	251,8	17,5	0,69	55,0	354DH	x	x	x	x	66
	24	108,7	230,3	14,5	0,57	52,0	354DM	x	x	x	x	66
	24	99,2	210,1	11,9	0,47	55,0	354DL	x	x	x	x	66
	48	142,7	302,3	23,8	0,94	60,0	352DX	x	x	x	x	67
	48	132,0	279,7	20,3	0,80	57,5	354DS	x	x	x	x	67
	48	118,8	251,8	17,5	0,69	55,0	354DH	x	x	x	x	66
	48	108,7	230,3	14,5	0,57	52,0	354DM	x	x	x	x	66
	48	99,2	210,1	11,9	0,47	55,0	354DL	x	x	x	x	66

AC AXIAL FANS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
80 x 80 x 25	115	50	9,0	19,1	3,3	0,13	26,0	146DF	x	x	x	x	70
		60	11,0	23,3	4,8	0,19	32,0		x	x	x	x	70
	208-240	50	9,0	19,1	3,3	0,13	26,0	146DF	x	x	x	x	70
		60	11,0	23,3	4,8	0,19	32,0		x	x	x	x	70
80 x 80 x 38	115	50	6,5	13,8	1,4	0,06	14,0	126LH	x	x	x	x	71
		60	8,0	17,0	1,8	0,07	18,0		x	x	x	x	71
	115	50	9,0	19,1	2,5	0,10	22,0	126LJ	x	x	x	x	71
		60	11,0	23,3	3,6	0,14	25,0		x	x	x	x	71
	115	50	12,5	26,5	5,0	0,20	30,0	126LF	x	x	x	x	71
		60	15,0	31,8	7,0	0,28	35,0		x	x	x	x	71
	208-240	50	6,5	13,8	1,4	0,06	14,0	126LH	x	x	x	x	71

Selection guide

AC AXIAL FANS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
	208-240	60	8,0	17,0	1,8	0,07	18,0	126LJ	x	x	x	x	71
		50	9,0	19,1	2,5	0,10	22,0		x	x	x	x	71
	208-240	60	11,0	23,3	3,6	0,14	25,0	126LF	x	x	x	x	71
		50	12,5	26,5	5,0	0,20	30,0		x	x	x	x	71
		60	15,0	31,8	7,0	0,28	35,0		x	x	x	x	71
92 x 92 x 25	115	50	8,0	17,0	1,6	0,06	21,0	99XM	x	x	x	x	72
		60	10,0	21,2	2,4	0,09	25,5		x	x	x	x	72
	115	50	12,0	25,4	3,8	0,15	32,0	99XW	x	x	x	x	72
		60	14,0	29,7	4,8	0,19	35,5		x	x	x	x	72
	208-240	60	18,5	39,2	8,5	0,33	42,0		x	x	x	x	72
		50	8,0	17,0	1,6	0,06	20,0	99XM	x	x	x	x	72
	208-240	60	10,0	21,2	2,4	0,09	25,0		x	x	x	x	72
		50	12,0	25,4	3,8	0,15	32,0	99XW	x	x	x	x	72
	208-240	60	14,0	29,7	4,8	0,19	35,5		x	x	x	x	72
		50	15,0	31,8	6,0	0,24	38,0	99XU	x	x	x	x	72
92 x 92 x 38	115	50	21,0	44,5	6,7	0,26	36,0	113XN	x	x	x	x	73
		60	25,0	53,0	9,0	0,35	41,0		x	x	x	x	73
	208-240	50	21,0	44,5	6,7	0,26	36,0	113XN	x	x	x		73
		60	25,0	53,0	9,0	0,35	41,0		x	x	x		73
120 x 120 x 25	115	50	31,0	65,7	6,0	0,24	41,0	98XH	x	x	x	x	74
		60	37,0	78,4	5,0	0,20	44,0		x	x	x	x	74
	115	50	16,0	33,9	1,4	0,06	21,0	98XC	x	x	x	x	74
		60	21,0	44,5	2,1	0,08	28,0		x	x	x	x	74
	115	50	27,0	57,2	3,5	0,14	35,0	98XY	x	x	x	x	74
		60	31,0	65,7	3,3	0,13	37,0		x	x	x	x	74
	208-240	50	31,0	65,7	6,0	0,24	41,0	98XH	x	x	x		74
		60	37,0	78,4	5,0	0,20	44,0		x	x	x		74
	208-240	50	16,0	33,9	1,4	0,06	21,0	98XC	x	x	x		74
		60	21,0	44,5	2,1	0,08	28,0		x	x	x		74
	208-240	50	27,0	57,2	3,5	0,14	35,0	98XY	x	x	x	x	74
		60	31,0	65,7	3,3	0,13	37,0		x	x	x	x	74
120 x 120 x 38	115	50	45,0	95,3	10,0	0,39	43,0	125XR51	x	x	x		77
		60	53,0	112,3	12,0	0,47	48,0		x	x	x		77
	115	50	44,0	93,2	9,5	0,37	44,0	125XR	x	x	x		76
		60	53,0	112,3	10,5	0,41	48,0		x	x	x		76
	115	50	44,0	93,2	9,5	0,37	43,0	125XR	x	x	x		76
		60	51,5	109,1	11,5	0,45	47,5		x	x	x		76
	115	50	42,0	89,0	8,5	0,33	43,0	141LS	x	x	x	x	75
		60	48,0	101,7	9,5	0,37	47,0		x	x	x	x	75
	115	50	35,0	74,2	5,0	0,20	36,0	125LG	x	x	x	x	76
		60	40,0	84,8	5,5	0,22	39,5		x	x	x	x	76
	115	50	33,0	69,9	4,0	0,16	35,0	141LT	x	x	x	x	75
		60	35,0	74,2	3,6	0,14	38,5		x	x	x	x	75
	115	50	25,0	53,0	2,2	0,09	30,0	125XL	x	x	x	x	76
		60	27,0	57,2	2,4	0,09	32,0		x	x	x	x	76
	115	50	23,5	49,8	1,9	0,07	27,5	141LV	x	x	x	x	75
		60	26,0	55,1	1,9	0,07	28,0		x	x	x	x	75
	208-240	50	45,0	95,3	10,0	0,39	43,0	125XR51	x	x	x		77
		60	53,0	112,3	12,0	0,47	48,0		x	x	x		77
	208-240	50	44,0	93,2	9,5	0,37	44,0	125XR	x	x	x		76
		60	53,0	112,3	10,5	0,41	48,0		x	x	x		76
	208-240	50	44,0	93,2	9,5	0,37	43,0	125XR	x	x	x		76
		60	51,5	109,1	11,5	0,45	47,5		x	x	x		76
	208-240	50	42,0	89,0	8,5	0,33	43,0	141LS	x	x	x	x	75
		60	48,0	101,7	9,5	0,37	47,0		x	x	x	x	75
	208-240	50	35,0	74,2	5,0	0,20	36,0	125LG	x	x	x		76
		60	40,0	84,8	5,5	0,22	39,5		x	x	x		76

Selection guide

AC AXIAL FANS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
	208-240	50	33,0	69,9	4,0	0,16	35,0	141LT	x	x	x	x	75
		60	35,0	74,2	3,6	0,14	38,5		x	x	x	x	75
	208-240	50	25,0	53,0	2,2	0,09	30,0	125XL	x	x	x	x	76
		60	27,0	57,2	2,4	0,09	32,0		x	x	x	x	76
	208-240	50	23,5	49,8	1,9	0,07	27,5	141LV	x	x	x	x	75
		60	26,0	55,1	1,9	0,07	28,0		x	x	x	x	75
Ø 172 x 50	115	50	100,0	211,9	18,0	0,71	50,5	154DA	x	x	x	x	78
		60	120,0	254,2	21,0	0,83	55,5		x	x	x	x	78
	115	50	87,0	184,3	6,5	0,26	47,0	154DE	x	x	x		78
		60	81,0	171,6	5,0	0,20	45,0		x	x	x		78
	115	50	49,0	103,8	4,5	0,18	29,5	154DG	x	x	x	x	78
		60	59,0	125,0	6,0	0,24	35,0		x	x	x	x	78
	208-240	50	100,0	211,9	18,0	0,71	50,5	154DA	x	x	x	x	78
		60	120,0	254,2	21,0	0,83	55,5		x	x	x	x	78
	208-240	50	87,0	184,3	6,5	0,26	47,0	154DE	x	x	x		78
		60	81,0	171,6	5,0	0,20	45,0		x	x	x		78
	208-240	50	49,0	103,8	4,5	0,18	29,5	154DG	x	x	x		78
		60	59,0	125,0	6,0	0,24	35,0		x	x	x		78
172 x 150 x 38	115	50	100,0	211,9	18,7	0,74	54,0	148VK	x	x	x	x	79
		60	119,0	252,1	24,0	0,94	57,0		x	x	x	x	79
	115	50	81,0	171,6	7,3	0,29	50,0	148VP	x	x	x		79
		60	70,0	148,3	5,6	0,22	45,5		x	x	x		79
	115	50	49,0	103,8	4,5	0,18	36,0	148VE	x	x	x	x	79
		60	58,0	122,9	6,0	0,24	39,0		x	x	x	x	79
	208-240	50	100,0	211,9	18,0	0,71	53,0	148VK	x	x	x	x	79
		60	117,0	247,9	21,0	0,83	57,0		x	x	x	x	79
	208-240	50	82,0	173,7	8,3	0,33	49,0	148VP	x	x	x		79
		60	70,0	148,3	5,4	0,21	44,0		x	x	x		79
	208-240	50	49,0	103,8	4,5	0,18	36,0	148VE	x	x	x		79
		60	58,0	122,9	6,0	0,24	39,0		x	x	x		79

AC MILITARY FANS 400 Hz

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
Ø 56 x 38	115	400	6,7	14,2	21,7	0,85	52,5	149ZG					82
	200	400	6,7	14,2	21,7	0,85	52,5	149ZG					82
Ø 66,6 x 38	115	400	27,0	57,2	131,0	5,16	72,0	106ZB					83
	115	400	13,0	27,5	38,0	1,50	51,0	106ZA					83
	200	400	27,0	57,2	131,0	5,16	72,0	106ZB					83
	200	400	13,0	27,5	38,0	1,50	51,0	106ZA					83
80 x 80 x 50	115	400	60,0	127,1	280,0	11,02	80,0	103TX					84
	115	400	30,0	63,6	72,0	2,83	65,0	103TY					84
	200	400	60,0	127,1	280,0	11,02	80,0	103TX					84
	200	400	30,0	63,6	72,0	2,83	65,0	103TY					84
88 x 88 x 25	115	400	22,5	47,7	6,6	0,26	43,0	110VU					85
	200	400	22,5	47,7	6,6	0,26	43,0	110VU					85
92 x 92 x 25	115	400	33,0	69,9	25,0	0,98	55,0	99XV					86
	200	400	33,0	69,9	25,0	0,98	55,0	99XV					86
92 x 92 x 38	115	400	45,0	95,3	23,0	0,91	58,0	113XP					87
	200	400	45,0	95,3	23,0	0,91	58,0	113XP					87
Ø 94 x 70	200	400	42,0	89,0	91,0	3,58	67,0	139BM					88
113 x 113 x 88,5	115	400	135,0	286,0	83,0	3,27	76,0	80TN					89
	200	400	135,0	286,0	83,0	3,27	76,0	80TN					89
120 x 120 x 25	115	400	66,0	139,8	35,0	1,38	65,0	98XJ					90

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AC MILITARY FANS 400 Hz

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
120 x 120 x 38	200	400	66,0	139,8	35,0	1,38	65,0	98XJ					90
	200	400	40,0	84,8	13,0	0,51	52,0	98XE					90
	115	400	94,0	199,2	40,0	1,57	60,0	125XS					91
	115	400	60,0	127,1	17,0	0,67	50,0	125XT					91
	200	400	94,0	199,2	40,0	1,57	60,0	125XS					91
	200	400	60,0	127,1	17,0	0,67	50,0	125XT					91
172 x 150 x 38	115	400	103,0	218,2	24,0	0,94	62,0	121VY					92
	200	400	103,0	218,2	24,0	0,94	62,0	121VY					92
Ø 180 x 104	115	400	300,0	635,6	110,0	4,33	80,0	86ME					93
	200	400	300,0	635,6	110,0	4,33	80,0	86ME					93
Ø 239,5 x 190	115	400	310,0	656,8	47,0	1,85	68,0	61BE					94
	200	400	310,0	656,8	47,0	1,85	68,0	61BE					94
Ø 320 x 214	115	400	970,0	2055,1	147,0	5,79	85,0	112BC					95
	200	400	970,0	2055,1	147,0	5,79	85,0	112BC					95

DC HIGH PERFORMANCES FANS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
107 x 80 x 60	27	28,7	60,8	31,2	1,23	58,0	82DBT	x				98
Ø 240 x 152	48	310,0	656,8	61,7	2,47	73,5	62DBV	x				99
Ø 350 x 263	26	514,0	1088,9	71,4	2,81	80,5	97DBW	x				100

AC HIGH PERFORMANCES FANS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
Ø 130 x 64,5	220	50	36,0	76,3	6,5	0,26	45,0	80CE	x				101
		60	44,0	93,2	9,0	0,35	49,0		x				101
167 x 155 x 87	127/220	50	111,0	235,2	16,0	0,63	56,0	86CB	x				102
		60	127,0	269,1	22,0	0,87	60,0		x				102
	127/220	50	75,0	158,9	16,0	0,63	57,0	85CB	x				102
		60	88,0	186,4	21,0	0,83	61,0		x				102
	220/380	50	111,0	235,2	16,0	0,63	56,0	86CB	x				102
		60	127,0	269,1	22,0	0,87	60,0		x				102
	220/380	50	75,0	158,9	16,0	0,63	57,0	85CB	x				102
		60	88,0	186,4	21,0	0,83	61,0		x				102
	127/220	50	111,0	235,2	16,0	0,63	56,0	86CB	x				103
		60	127,0	269,1	22,0	0,87	60,0		x				103
Ø 180 x 87	127/220	50	75,0	158,9	16,0	0,63	57,0	85CB	x				103
		60	88,0	186,4	21,0	0,83	61,0		x				103
	220/380	50	111,0	235,2	16,0	0,63	56,0	86CB	x				103
		60	127,0	269,1	22,0	0,87	60,0		x				103
	220/380	50	75,0	158,9	16,0	0,63	57,0	85CB	x				103
		60	88,0	186,4	21,0	0,83	61,0		x				103
	127/220	50	126,0	267,0	28,0	1,10	63,0	86CD	x				104
		60	148,0	313,6	38,0	1,50	66,0		x				104
		60	148,0	313,6	38,0	1,50	66,0		x				104
Ø 239,5 x 85	127/220	50	255,0	540,3	30,0	1,18	65,0	61GP	x				105
	127/220	50	205,0	434,3	31,0	1,22	63,0	62GP	x				106
		60	240,0	508,5	41,0	1,61	66,0		x				106
	127/220	50	126,0	267,0	8,0	0,31	49,0	61GS	x				105

Selection guide

AC HIGH PERFORMANCES FANS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
	220/380	60	148,0	313,6	11,5	0,45	52,0		x				105
		50	255,0	540,3	30,0	1,18	65,0	61GP	x				105
		50	205,0	434,3	31,0	1,22	63,0	62GP	x				106
		60	240,0	508,5	41,0	1,61	66,0		x				106
		50	126,0	267,0	8,0	0,31	49,0	61GS	x				105
		60	148,0	313,6	11,5	0,45	52,0		x				105
Ø 239,5 x 181	115	60	318,0	673,7	81,0	3,19	74,0	61GM	x				107
	127/220	60	318,0	673,7	81,0	3,19	74,0	61GM	x				107
	127/220	50	275,0	582,6	58,0	2,28	72,0	61GR	x				107
	127/220	50	210,0	444,9	65,0	2,56	69,0	62GR	x				108
		60	250,0	529,7	84,0	3,31	73,0		x				108
	220	60	318,0	673,7	81,0	3,19	74,0	61GM	x				107
	220/380	60	318,0	673,7	81,0	3,19	74,0	61GM	x				107
	220/380	50	275,0	582,6	58,0	2,28	72,0	61GR	x				107
	220/380	50	210,0	444,9	65,0	2,56	69,0	62GR	x				108
		60	250,0	529,7	84,0	3,31	73,0		x				108
Ø 290 x 76,5	110/220	50	275,0	582,6	6,4	0,25	54,0	75GK	x				109
	110/220	50	206,0	436,4	2,3	0,09	45,0	75GF	x				109
	127/220	50	290,0	614,4	7,5	0,30	55,0	75GZ	x				109
		60	330,0	699,2	8,9	0,35	58,0		x				109
	220/380	50	290,0	614,4	7,5	0,30	55,0	75GZ	x				109
		60	330,0	699,2	8,9	0,35	58,0		x				109
Ø 350 x 158	127/220	50	780,0	1652,5	51,0	2,01	79,0	60CH	x				110
	127/220	50	490,0	1038,1	60,0	2,36	73,0	97CH	x				110
		60	570,0	1207,6	73,0	2,87	76,0		x				110
	127/220	50	410,0	868,6	15,0	0,59	61,0	60CF	x				110
		60	480,0	1017,0	20,0	0,79	65,0		x				110
	220/380	50	780,0	1652,5	51,0	2,01	79,0	60CH	x				110
	220/380	50	490,0	1038,1	60,0	2,36	73,0	97CH	x				110
		60	570,0	1207,6	73,0	2,87	76,0		x				110
	220/380	50	410,0	868,6	15,0	0,59	61,0	60CF	x				110
		60	480,0	1017,0	20,0	0,79	65,0		x				110
Ø 350 x 254	127/220	50	514,0	1089,0	123,0	4,84	81,0	97CJ	x				111
		60	600,0	1271,2	144,0	5,67	84,0		x				111
	220/380	50	514,0	1089,0	123,0	4,84	81,0	97CJ	x				111
		60	600,0	1271,2	144,0	5,67	84,0		x				111
Ø 350 x 274	127/220	50	900,0	1906,8	102,0	4,02	87,0	60CV	x				112
	220/380	50	900,0	1906,8	102,0	4,02	87,0	60CV	x				112

DC CENTRIFUGAL BLOWERS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	InH ₂ O	dB(A)		CE	UL	CSA	VDE	
63 x 60 x 300	12	33,3	70,6	2,2	0,09	46,0	510TDH					114
	24	33,3	70,6	2,2	0,09	46,0	510TDH					114
51 x 51,3 x 15	5	1,5	3,2	11,0	0,43	32,5	593DM	x	x	x	x	115
	5	1,2	2,5	7,0	0,28	26,5	593DL	x	x	x	x	115
	12	2,2	4,6	15,7	0,62	45,0	593DS	x	x	x	x	115
	12	1,8	3,9	18,0	0,71	38,0	593DH	x	x	x	x	115
	12	1,5	3,2	11,0	0,43	32,5	593DM	x	x	x	x	115
	12	1,2	2,5	7,0	0,28	26,5	593DL	x	x	x	x	115
75,7 x 75,7 x 30	12	5,3	11,3	12,2	0,48	38,0	591DH	x	x	x	x	116
	12	4,2	8,8	6,8	0,27	32,0	591DM	x	x	x	x	116
	12	3,3	7,1	4,0	0,16	26,0	591DL	x	x	x	x	116
	24	5,3	11,3	12,2	0,48	38,0	591DH	x	x	x	x	116

Selection guide

DC CENTRIFUGAL BLOWERS

Size	Voltage	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
97,2 x 94,4 x 33	24	4,2	8,8	6,8	0,27	32,0	591DM	x	x	x	x	116
	24	3,3	7,1	4,0	0,16	26,0	591DL	x	x	x	x	116
	12	13,3	28,2	33,0	1,30	55,0	595DS	x	x	x	x	117
	12	12,0	25,4	25,4	1,00	52,0	595DH	x	x	x	x	117
	12	10,7	22,6	19,0	0,75	49,0	595DM	x	x	x	x	117
	12	9,0	19,1	12,7	0,50	45,0	595DL	x	x	x	x	117
	24	13,3	28,2	33,0	1,30	55,0	595DS	x	x	x	x	117
	24	12,0	25,4	25,4	1,00	52,0	595DH	x	x	x	x	117
	24	9,0	19,1	12,7	0,50	45,0	595DL	x	x	x	x	117
120 x 120 x 32	12	18,7	39,6	33,0	1,30	56,5	598DX	x	x	x	x	118
	12	15,3	32,5	27,0	1,06	54,0	598DS	x	x	x	x	118
	12	13,7	29,0	21,0	0,83	51,0	598DH	x	x	x	x	118
	12	12,7	26,9	17,5	0,69	48,5	598DM	x	x	x	x	118
	12	11,7	24,7	14,0	0,55	47,0	598DL	x	x	x	x	118
	24	18,7	39,6	33,0	1,30	56,5	598DX	x	x	x	x	118
	24	16,7	35,3	25,0	0,98	54,0	598DS	x	x	x	x	118
	24	13,7	29,0	21,0	0,83	51,0	598DH	x	x	x	x	118
	24	12,7	26,9	17,5	0,69	48,5	598DM	x	x	x	x	118
126 x 125 x 34	12	12,8	27,2	17,8	0,70	51,5	596DH	x	x	x	x	119
	12	11,2	23,7	12,0	0,47	46,0	596DM	x	x	x	x	119
	12	9,2	19,4	7,8	0,31	42,5	596DL	x	x	x	x	119
	24	12,8	27,2	17,8	0,70	51,5	596DH	x	x	x	x	119
	24	11,2	23,7	12,0	0,47	46,0	596DM	x	x	x	x	119
	24	9,2	19,4	7,8	0,31	42,5	596DL	x	x	x	x	119
	48	11,2	23,7	12,0	0,47	46,0	596DM	x	x	x	x	119
	48	9,2	19,4	7,8	0,31	42,5	596DL	x	x	x	x	119
	48	9,2	19,4	7,8	0,31	42,5	596DL	x	x	x	x	119
165 x 159 x 40	12	29,2	61,8	35,2	1,39	56,5	599DH	x	x	x	x	120
	12	25,7	54,4	28,0	1,10	54,5	599DM	x	x	x	x	120
	12	23,2	49,1	21,5	0,85	51,5	599DL	x	x	x	x	120
	24	29,2	61,8	35,2	1,39	56,5	599DH	x	x	x	x	120
	24	25,7	54,4	28,0	1,10	54,5	599DM	x	x	x	x	120
	24	23,2	49,1	21,5	0,85	51,5	599DL	x	x	x	x	120
	48	25,7	54,4	28,0	1,10	54,5	599DM	x	x	x	x	120
	48	23,2	49,1	21,5	0,85	51,5	599DL	x	x	x	x	120
	48	23,2	49,1	21,5	0,85	51,5	599DL	x	x	x	x	120

AC CENTRIFUGAL BLOWERS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
120 x 139 x 122	127/220	50	12,0	25,4	15,5	0,61	48,0	582CAX	x				122
		60	14,5	30,7	22,0	0,87	51,0	582CAX	x				122
	220/380	50	12,0	25,4	15,5	0,61	48,0	582CAX	x				122
		60	14,5	30,7	22,0	0,87	51,0	582CAX	x				122
126 x 127 x 39	115	50	13,5	28,6	9,5	0,37	49,0	583CBA	x				123
		60	13,2	28,0	13,5	0,53	51,0	583CBA	x				123
	220	50	13,5	28,6	9,5	0,37	49,0	583CBA	x				123
		60	13,2	28,0	13,5	0,53	51,0	583CBA	x				123
144 x 156 x 209	127/220	50	65,0	137,7	23,0	0,91	63,0	607COV	x				124
		60	72,0	152,5	33,0	1,30	66,0	607COV	x				124
	220/380	50	65,0	137,7	23,0	0,91	63,0	607COV	x				124
		60	72,0	152,5	33,0	1,30	66,0	607COV	x				124
148 x 152 x 197,5	127/220	50	74,0	156,8	22,0	0,87	64,0	608COV	x				125
		60	85,0	180,1	32,0	1,26	67,0	608COV	x				125
	220/380	50	74,0	156,8	22,0	0,87	64,0	608COV	x				125

Selection guide

AC CENTRIFUGAL BLOWERS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
162 x 175 x 114	127/220	60	85,0	180,1	32,0	1,26	67,0		x				125
		50	20,0	42,4	30,0	1,18	63,0	620CAZ	x				126
	220/380	60	23,0	48,7	43,0	1,69	60,0		x				126
		50	20,0	42,4	30,0	1,18	63,0	620CAZ	x				126
	220	60	23,0	48,7	43,0	1,69	60,0		x				126
		50	35,0					621CAU	x				127
		60	40,0	84,8	46,0	1,81	61,0		x				127
		50	35,0	74,2	33,0	1,30	57,0	621CAU	x				127
165 x 181 x 190	127/220	60	40,0	84,8	46,0	1,81	61,0		x				127
		50	79,0	167,4	32,0	1,26	65,0	609COV	x				128
	220/380	60	89,0	188,6	45,0	1,77	68,0		x				128
		50	79,0	167,4	32,0	1,26	65,0	609COV	x				128
172 x 180 x 95	230	60	89,0	188,6	45,0	1,77	68,0		x				128
		50	54,2	114,8	22,9	0,90	58,0	410E					129
172 x 180 x 254	230-240	50	144,0	305,1	10,0	0,39	51,0	420E					130
		50	175,0	370,8	35,0	1,38	51,0	420E					130
200 x 222 x 225	127/220	50	130,0	275,4	47,0	1,85	65,0	625COS	x				131
		60	155,0	328,4	67,0	2,64	68,0		x				131
	220/380	50	130,0	275,4	47,0	1,85	65,0	625COS	x				131
		60	155,0	328,4	67,0	2,64	68,0		x				131
200 x 222 x 331	220/380	50	280,0	593,2	47,0	1,85	67,0	625CHK	x				132
		60	320,0	678,0	66,0	2,60	71,0		x				132
205 x 218 x 270	230-240	50	237,5	503,2	54,0	2,13	60,0	420E					133
213 x 239 x 209	220/380	50	100,0	211,9	61,0	2,40	68,0	661CHL	x				134
		60	115,0	243,6	86,0	3,39	70,5		x				134
268 x 300 x 258	220/380	50	150,0	317,8	85,0	3,35	72,0	694CHM	x				135
		60	175,0	370,8	120,0	4,72	75,0		x				135
269 x 318 x 118	127/220	50	38,0	80,5	64,0	2,52	68,0	692CCP	x				136
		60	44,0	93,2	90,0	3,54	73,0		x				136
	220/380	50	38,0	80,5	64,0	2,52	68,0	692CCP	x				136
		60	44,0	93,2	90,0	3,54	73,0		x				136
302 x 334 x 298	220/380	50	370,0	783,9	135,0	5,31	79,0	711CHB	x				137
		60	420,0	889,8	190,0	7,48	82,0		x				137
326 x 372 x 160	230	50	119,4	253,0	23,6	0,93	59,0	410E					138
	230	50	188,9	400,2	24,5	0,96	63,0	410E					138

DC BACWARD CURVED FANS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
Ø 195 x 70	48	DC	159,7	75,4	63,5	2,50	67,0	564DH					140
Ø 225 x 71	48	DC	270,8	127,8	55,0	2,17	71,0	565DH					141
Ø 225 x 99	48	DC	304,2	143,6	59,7	2,35	69,0	566DH					142

AC BACWARD CURVED FANS

Size	Voltage	Frequency	Airflow		Pressure		Noise level	Family	Approvals (P = pending)				Page
mm	V	Hz	l/s	cfm	mmH ₂ O	lnH ₂ O	dB(A)		CE	UL	CSA	VDE	
Ø 195 x 70	230	50	166,7	353,1	34,2	1,34	61,0	430E					143
Ø 225 x 79	230	50	261,1	553,2	47,9	1,89	68,0	430E					144
Ø 250 x 70	230	50	422,2	894,5	56,6	2,23	76,0	430E					145

TOLERANCES (Indicative values)

Series 146D; 99Y; 158D, 121D; 148D

Speed / airflow	+/- 6 %
Static pressure	+/- 12 %
Input power	+/- 15 %
Voltage	See voltage range on each data sheet

Other series

Speed / airflow	+/- 8 %
Static pressure	+/- 15 %
Input power	+/- 25 %
Voltage	See voltage range on each data sheet

EXAMPLE OF CODIFICATION

246 DS 1 L P 1 1 000

Series code

Speed (from lower to higher):
DL, DM, DH, DS, DX, DZ, DY,
DW or YW = Special speed

Voltage: 1= 12 V; 2 = 24 V; 4 = 48 V;
5 = 5 V; 9 = special voltage

Connection: L = leads; T = terminals

Housing material: P = plastic; M = metal

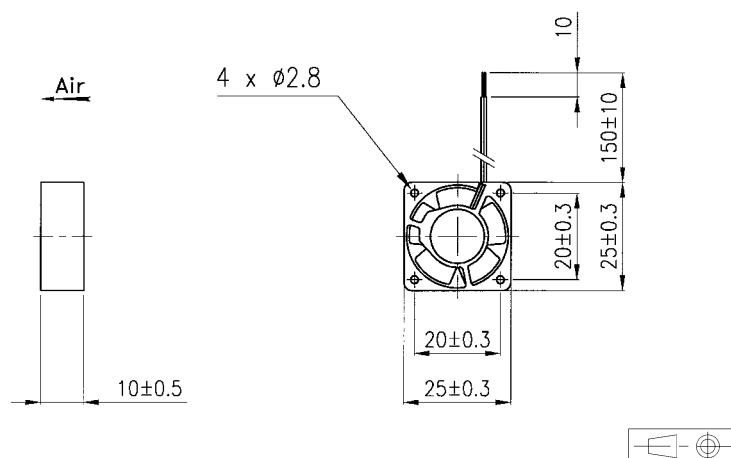
Bearing systems: 1 = ball bearings;
3 = sleeve bearings; 4 = mixed bearings

1 = no option; 3 = speed sensor; 4 = alarm;
5 = variable speed option;
6 = variable speed and alarm;
7 = variable speed and speed sensor

Special features: 500 = TTL output in case
of speed sensor option; 510 = rib type;
600 = tropicalization; 601 = IP54; 602 = IP55;
others: custom designs

25 x 25 x 10 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 8 g

Available with:

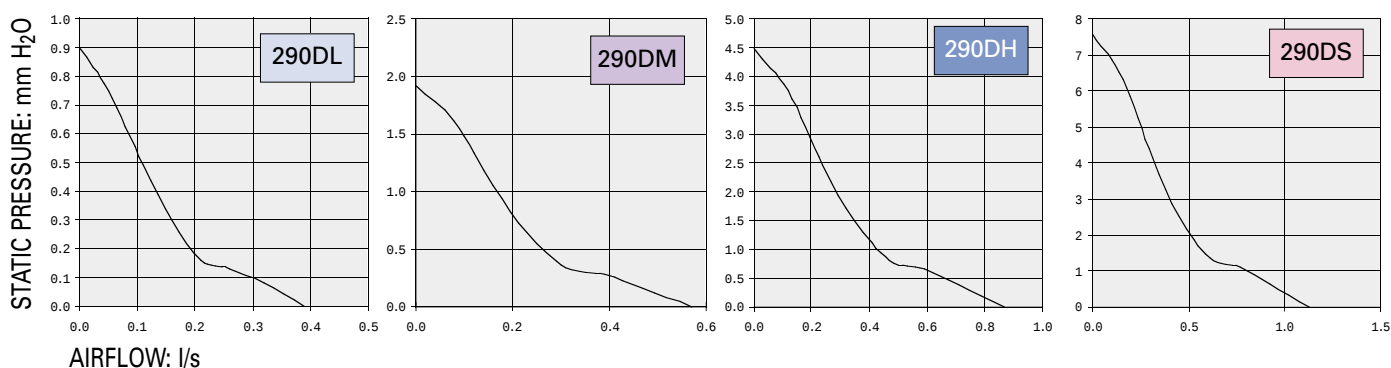
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
290DL5LP11000	5	0,39	18	5000	0,20	(4-6)	X		X		- 10	70
290DL1LP11000	12	0,39	18	5000	0,36	(7-13,2)	X		X		- 10	70
290DM5LP11000	5	0,57	20	7000	0,30	(4-6)	X		X		- 10	70
290DM1LP11000	12	0,57	20	7000	0,48	(7-13,2)	X		X		- 10	70
290DH5LP11000	5	0,87	23,5	10000	0,60	(4-6)	X		X		- 10	70
290DH1LP11000	12	0,87	23,5	10000	0,72	(7-13,2)	X		X		- 10	70
290DS5LP11000	5	1,13	28	13000	0,80	(4-6)	X		X		- 10	70
290DS1LP11000	12	1,13	28	13000	0,96	(7-13,2)	X		X		- 10	70

Additional versions:

Series 215: 25 x 25 x 15 mm, 5 V,
available with speed sensor (consult factory)

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

DC Axial Fans



Life expectancy

80 000 hours

Brushless DC Motor

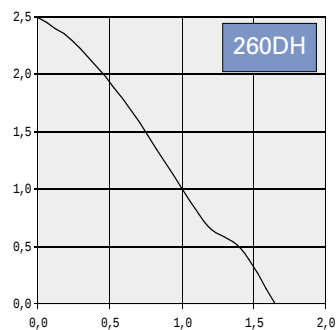
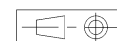
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

Available with:

- speed sensor

- alarm



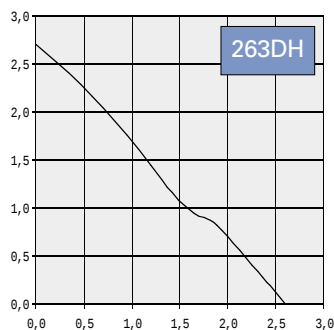
Groupe CONVERGIE • Tel.: +33 (0) 1 49 04 92 00 • Fax: +33 (0) 1 47 89 09 38 • E-mail: export_etri@compuserve.com

DC Axial Fans



See selection guide pages 15 to 26

For more details, see page 14



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

DC Axial Fans



Life expectancy

80 000 hours (ball bearings)

Brushless DC Motor

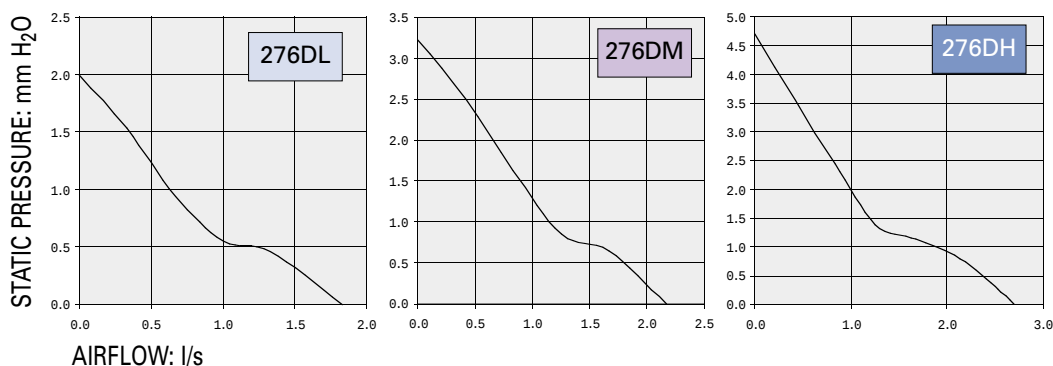
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

Available with:

- speed sensor

- alarm



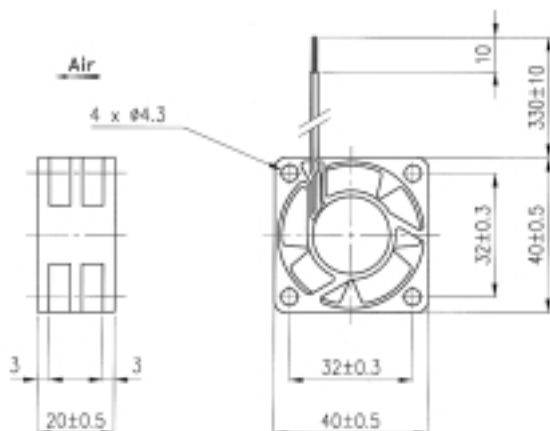
Additional versions:

Accessories:

See page: 153

40 x 40 x 20 mm

DC Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 33 g

Available with:

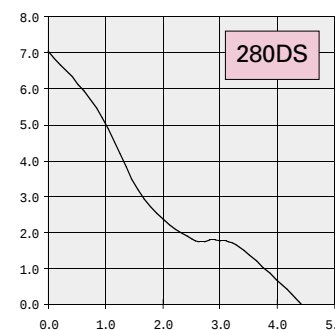
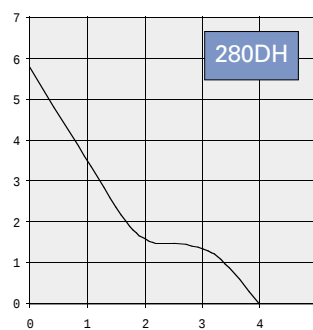
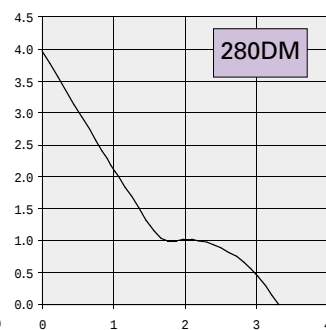
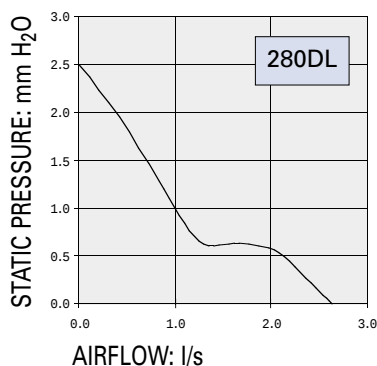
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
280DL5LP11000	5	2,63	25	5000	0,70	(4,5-5,5)	X		X		- 10	70
280DL1LP11000	12	2,63	25	5000	0,72	(7-13,8)	X		X		- 10	70
280DL2LP11000	24	2,63	25	5000	1,20	(14-27,6)	X		X		- 10	70
280DM5LP11000	5	3,32	30	6300	1,10	(4,5-5,5)	X		X		- 10	70
280DM1LP11000	12	3,32	30	6300	1,08	(7-13,8)	X		X		- 10	70
280DM2LP11000	24	3,32	30	6300	1,44	(14-27,6)	X		X		- 10	70
280DH5LP11000	5	4,00	33	7600	2,00	(4,5-5,5)	X		X		- 10	70
280DH1LP11000	12	4,00	33	7600	1,44	(7-13,8)	X		X		- 10	70
280DH2LP11000	24	4,00	33	7600	1,68	(14-27,6)	X		X		- 10	70
280DS1LP11000	12	4,42	36	8400	1,92	(7-13,8)	X		X		- 10	70
280DS2LP11000	24	4,42	36	8400	2,16	(14-27,6)	X		X		- 10	70

Additional versions:

New series 380D (see page 33)

Accessories:

See pages: 153 and 161

40 x 40 x 20 mm



New !

Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

Housing material: Plastic UL 94 VO

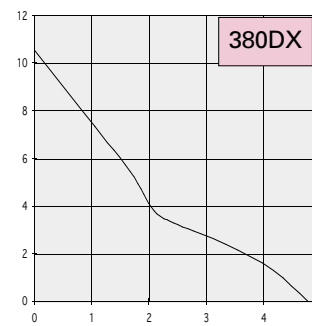
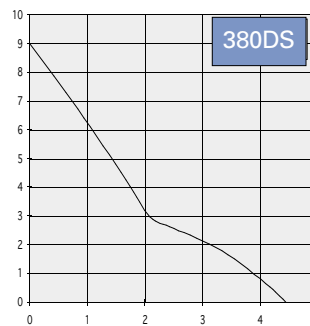
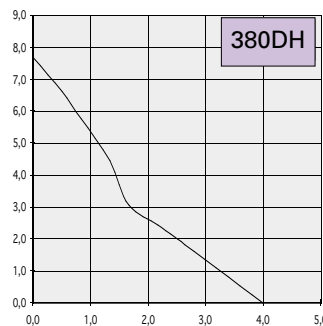
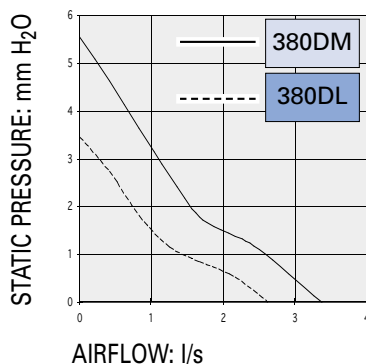
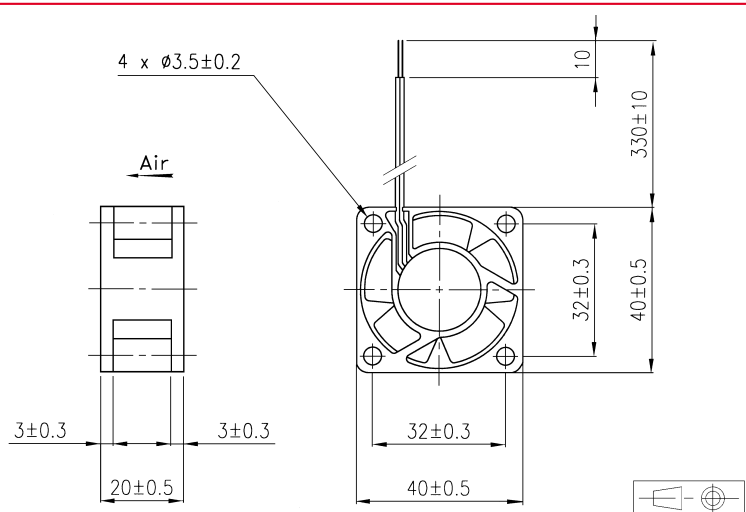
Impeller material: Plastic UL 94 VO

Weight: 28 g

Available with:

- speed sensor
- open collector alarm

DC
Axial Fans



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
380DL5LP11000	5	2,62	22	5000	0,5	(4,5-5,5)	x		x		- 10	70
380DL1LP11000	12	2,62	22	5000	0,6	(7-13,8)	x		x		- 10	70
380DL2LP11000	24	2,62	22	5000	1,0	(14-27,6)	x		x		- 10	70
380DM5LP11000	5	3,38	24	6300	0,8	(4,5-5,5)	x		x		- 10	70
380DM1LP11000	12	3,38	24	6300	0,7	(7-13,8)	x		x		- 10	70
380DM2LP11000	24	3,38	24	6300	1,2	(14-27,6)	x		x		- 10	70
380DH5LP11000	5	4,03	28,5	7600	1,3	(4,5-5,5)	x		x		- 10	70
380DH1LP11000	12	4,03	28,5	7600	1,0	(7-13,8)	x		x		- 10	70
380DH2LP11000	24	4,03	28,5	7600	1,4	(14-27,6)	x		x		- 10	70
380DS5LP11000	5	4,45	30,5	8200	1,5	(4,5-5,5)	x		x		- 10	70
380DS1LP11000	12	4,45	30,5	8200	1,2	(7-13,8)	x		x		- 10	70
380DS2LP11000	24	4,45	30,5	8200	1,7	(14-27,6)	x		x		- 10	70
380DX5LP11000	5	4,8	32,5	9000	1,6	(4,5-5,5)	x		x		- 10	70
380DX1LP11000	12	4,8	32,5	9000	1,4	(7-13,8)	x		x		- 10	70
380DX2LP11000	24	4,8	32,5	9000	2,2	(14-27,6)	x		x		- 10	70

Accessories:

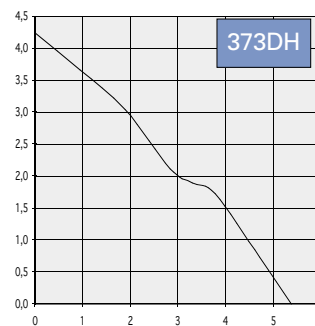
See pages: 153 and 161

DC Axial Fans



See selection guide pages 15 to 26

For more details, see page 14



AIRFLOW: l/s

See page: 161

50 x 50 x 15 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours (ball bearings)

50 000 hours (mixed bearings)

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

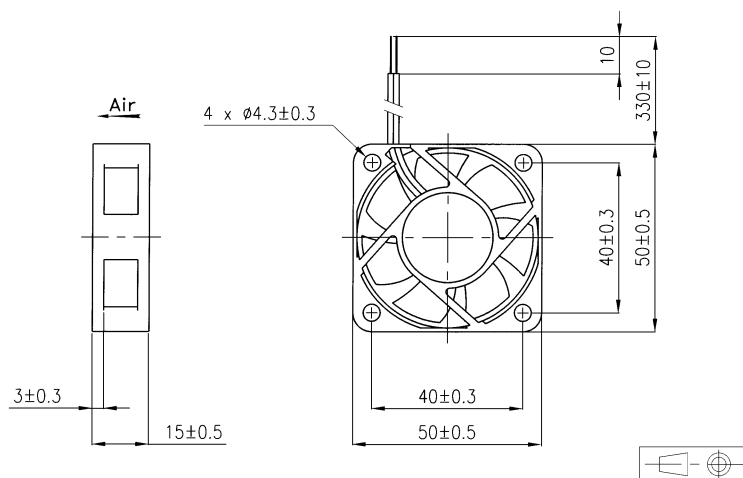
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

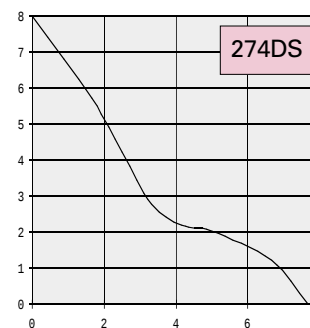
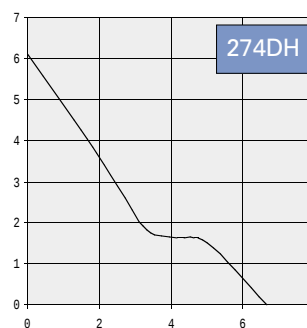
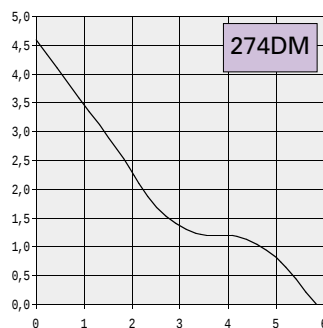
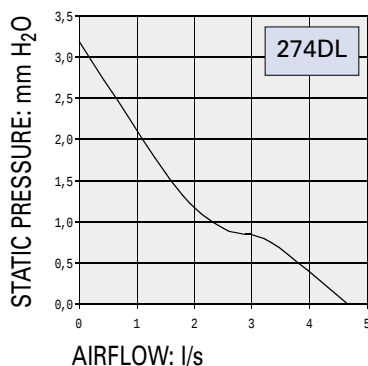
Weight: 32 g

Available with:

- speed sensor
- alarm



DC
Axial Fans



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
274DL5LP11000	5	4,67	24	4000	0,8	(4,5-5,5)	X		X		- 10	70
274DL1LP11000	12	4,67	24	4000	0,7	(7-13,8)	X		X		- 10	70
274DL2LP11000	24	4,67	24	4000	1,7	(14-27,6)	X		X		- 10	70
274DM5LP11000	5	5,83	28	4800	1,1	(4,5-5,5)	X		X		- 10	70
274DM1LP11000	12	5,83	28	4800	1,0	(7-13,8)	X		X		- 10	70
274DM2LP11000	24	5,83	28	4800	1,7	(14-27,6)	X		X		- 10	70
274DH5LP11000	5	6,67	32	5600	1,6	(4,5-5,5)	X		X		- 10	70
274DH1LP11000	12	6,67	32	5600	1,2	(7-13,8)	X		X		- 10	70
274DH2LP11000	24	6,67	32	5600	2,2	(14-27,6)	X		X		- 10	70
274DS1LP11000	12	7,67	36	6400	1,6	(7-13,8)	X		X		- 10	70
274DS2LP11000	24	7,67	36	6400	2,6	(14-27,6)	X		X		- 10	70

Additional versions:

Mixed bearings (1 ball + 1 sleeve)

Accessories:

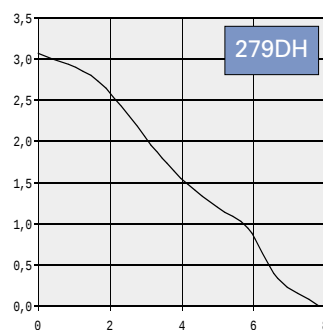
See page: 161

DC Axial Fans



See selection guide pages 15 to 26

For more details, see page 14



See pages: 148, 150, 151, 153 and 161

60 x 60 x 15 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours (ball bearings)

50 000 hours (mixed bearings)

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

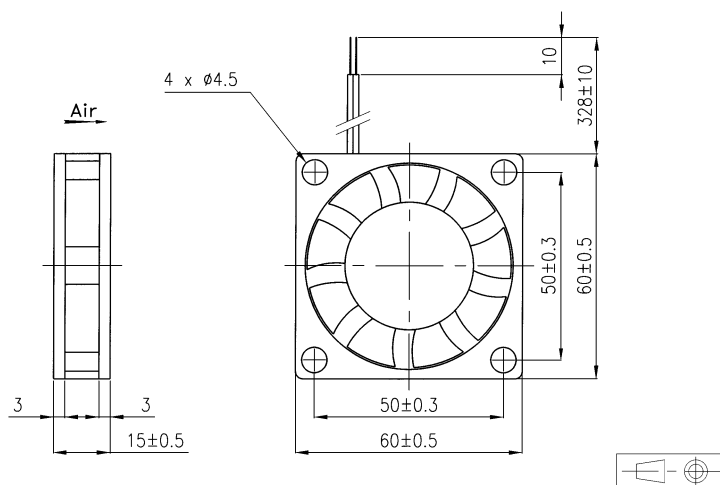
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

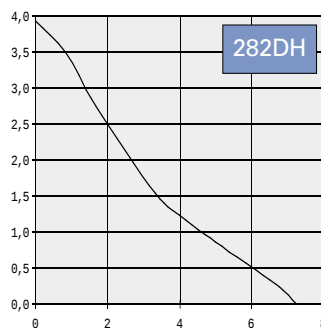
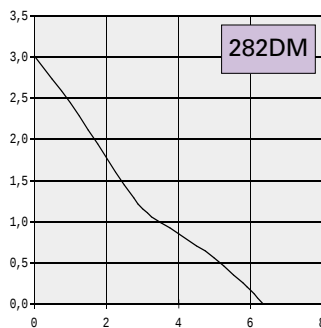
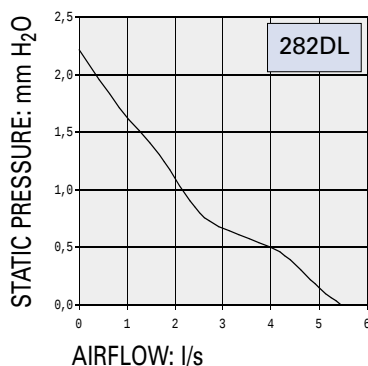
Weight: 44 g

Available with:

- speed sensor
- alarm



DC
Axial Fans



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
282DL1LP11000	12	5,5	24	3000	0,8	(7-13,8)	X		X		- 10	70
282DL1LP41000	12	5,5	24	3000	0,8	(7-13,8)	X	X	X		- 10	60
282DL2LP11000	24	5,5	24	3000	1,0	(14-27,6)	X		X		- 10	70
282DL2LP41000	24	5,5	24	3000	1,0	(14-27,6)	X	X	X		- 10	60
282DM1LP11000	12	6,4	29	3500	1,0	(7-13,8)	X		X		- 10	70
282DM1LP41000	12	6,4	29	3500	1,0	(7-13,8)	X	X	X		- 10	60
282DM2LP11000	24	6,4	29	3500	1,2	(14-27,6)	X		X		- 10	70
282DM2LP41000	24	6,4	29	3500	1,2	(14-27,6)	X	X	X		- 10	60
282DH1LP11000	12	7,3	32	4000	1,2	(7-13,8)	X		X		- 10	70
282DH1LP41000	12	7,3	32	4000	1,2	(7-13,8)	X	X	X		- 10	60
282DH2LP11000	24	7,3	32	4000	1,9	(14-27,6)	X		X		- 10	70
282DH2LP41000	24	7,3	32	4000	1,9	(14-27,6)	X	X	X		- 10	60
282DS1LP11000	12	8,2	35	4500	1,4	(7-13,8)	X		X		- 10	70
282DS1LP41000	12	8,2	35	4500	1,4	(7-13,8)	X	X	X		- 10	60
282DS2LP11000	24	8,2	35	4500	2,4	(14-27,6)	X		X		- 10	70
282DS2LP41000	24	8,2	35	4500	2,4	(14-27,6)	X	X	X		- 10	60

Additional versions:

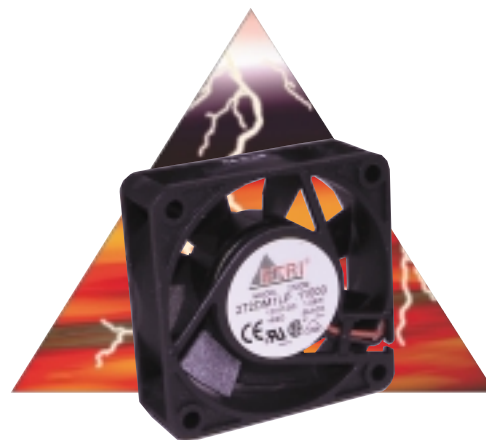
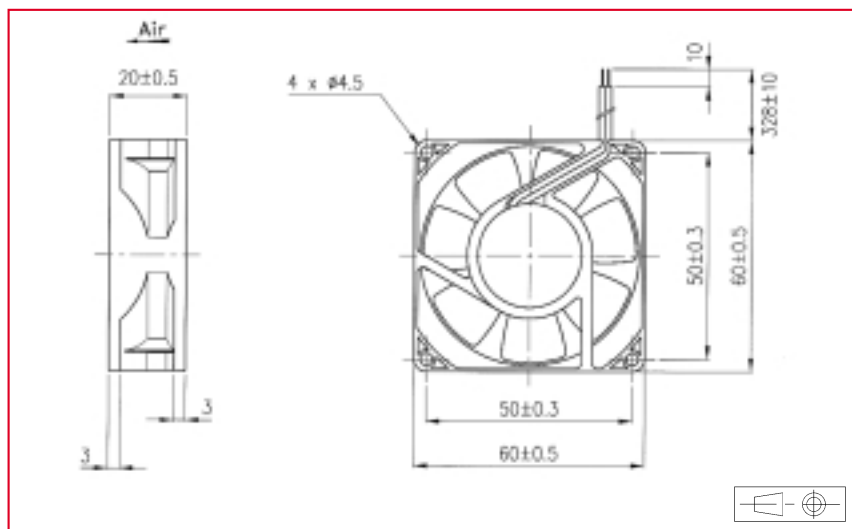
5 V (ball or mixed bearings, available with speed sensor)

Accessories:

See pages: 148, 150, 151, 153 and 161

60 x 60 x 20 mm

DC Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 62 g

Available with:

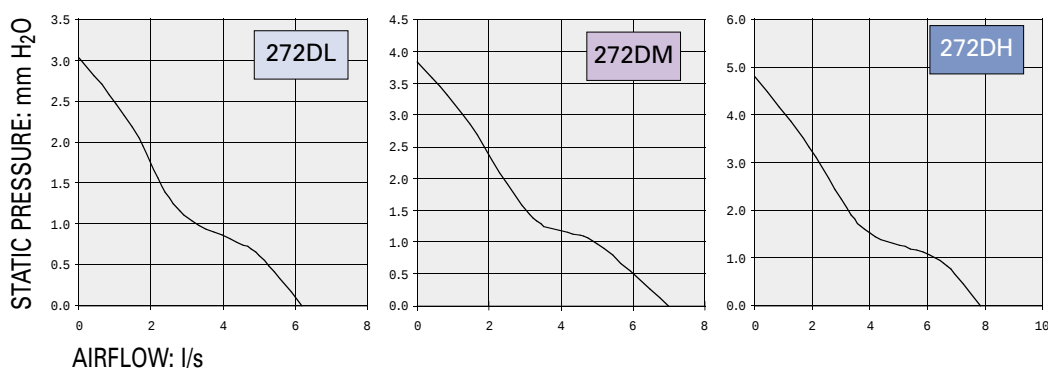
- variable speed (12 V)
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
272DL5LP11000	5	6,17	24	3200	0,70	(4,5-5,5)	X		X		- 10	70
272DL1LP11000	12	6,17	24	3200	0,84	(7-13,8)	X		X		- 10	70
272DL2LP11000	24	6,17	24	3200	0,72	(14-27,6)	X		X		- 10	70
272DM5LP11000	5	7,00	26	3600	0,95	(4,5-5,5)	X		X		- 10	70
272DM1LP11000	12	7,00	26	3600	1,08	(7-13,8)	X		X		- 10	70
272DM2LP11000	24	7,00	26	3200	0,96	(14-27,6)	X		X		- 10	70
272DH5LP11000	5	7,83	28	4000	1,20	(4,5-5,5)	X		X		- 10	70
272DH1LP11000	12	7,83	28	4000	1,32	(7-13,8)	X		X		- 10	70
272DH2LP11000	24	7,83	28	4000	1,20	(14-27,6)	X		X		- 10	70

Additional versions:

Higher speeds (see page 39)

Accessories:

See pages: 148, 150, 151, 153 and 161

60 x 60 x 25 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected*

*except 5 V models: integrated circuit

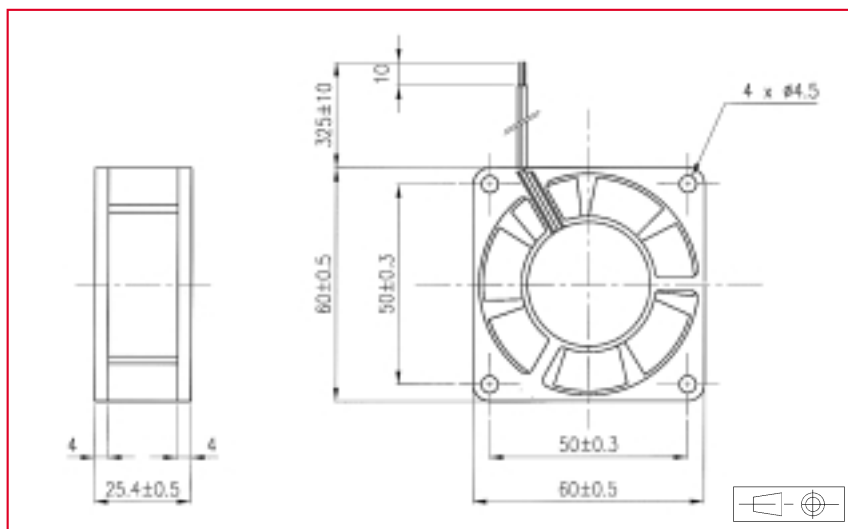
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

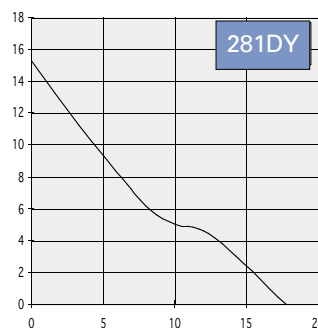
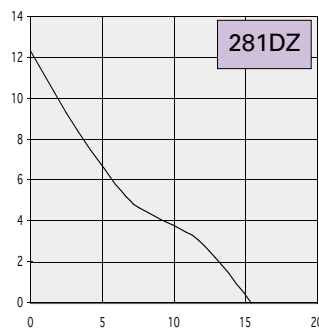
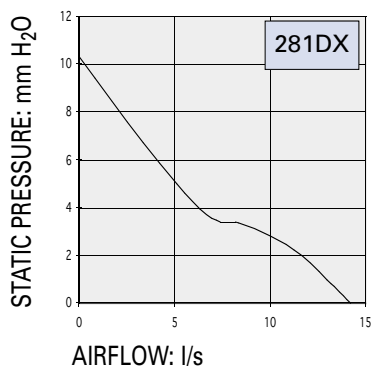
Weight: 77 g

Available with:

- variable speed (12 V)
- speed sensor
- alarm



DC
Axial Fans



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
281DX1LP11000	12	14,2	39,5	5500	2,4	(7-13,8)	X		X		- 10	70
281DX2LP11000	24	14,2	39,5	5500	3,4	(14-27,6)	X		X		- 10	70
281DX4LP11000	48	14,2	39,5	5500	2,4	(28-56)	X		X		- 10	70
281DZ1LP11000	12	15,4	42,5	6000	2,9	(7-13,8)	X		X		- 10	70
281DZ2LP11000	24	15,4	42,5	6000	3,8	(14-27,6)	X		X		- 10	70
281DZ4LP11000	48	15,4	42,5	6000	3,0	(28-56)	X		X		- 10	70
281DY1LP11000	12	17,8	46,5	6800	3,8	(7-13,8)	X		X		- 10	70
281DY2LP11000	24	17,8	46,5	6800	4,8	(14-27,6)	X		X		- 10	70
281DY4LP11000	48	17,8	46,5	6800	3,8	(38-56)	X		X		- 10	70

Additional versions:

Lower speeds (see page 40)

Accessories:

See pages: 148, 150, 151, 153 and 161

DC Axial Fans

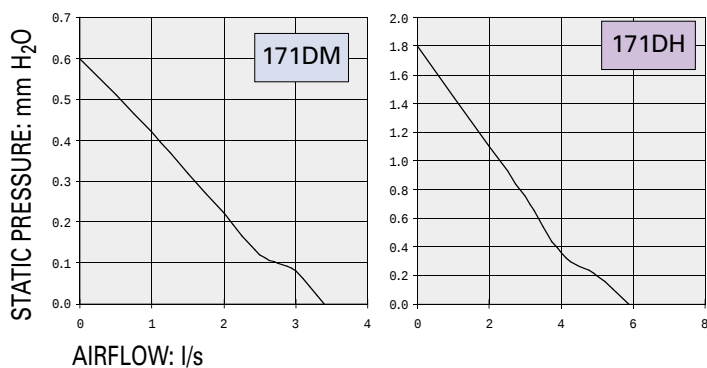


See selection guide pages 15 to 26

Electrical protection: integrated circuit
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 42 g

L-10 LIFE AT 40°C:

50 000 hours
For more details, see page 14

[illegible]

See pages: 148, 150, 151, 152 and 161

70 x 70 x 25 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

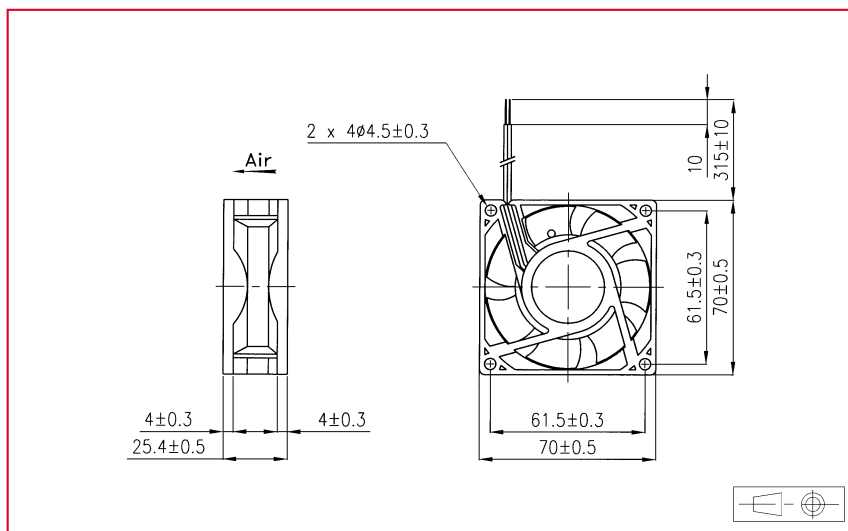
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

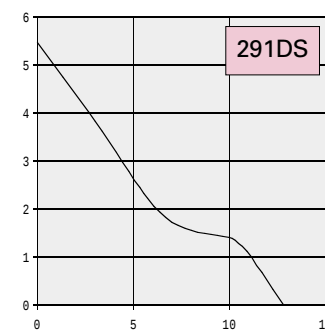
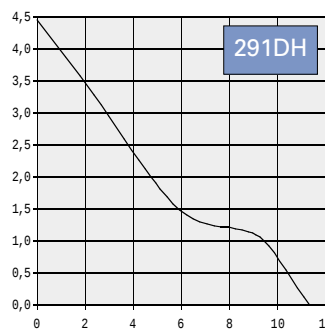
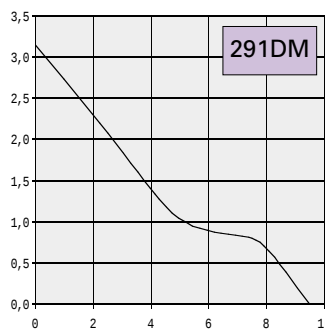
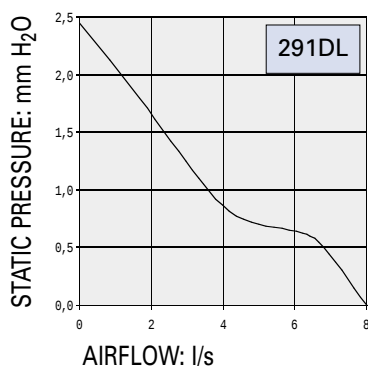
Weight: 77 g

Available with:

- speed sensor
- open collector alarm (except for 5 V)



DC
Axial Fans



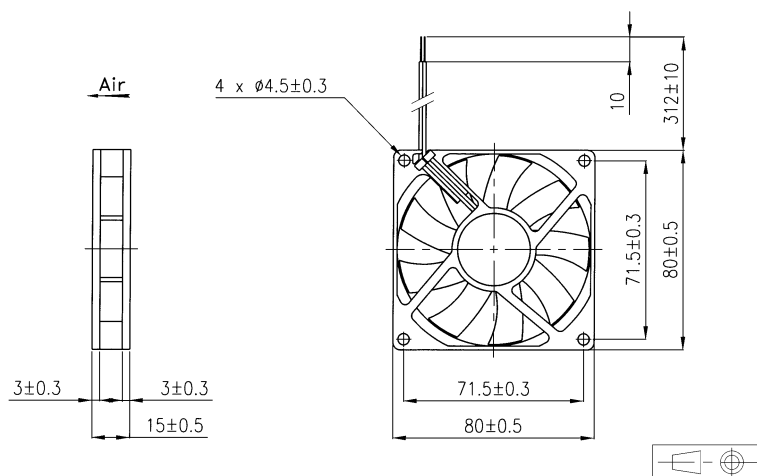
Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
291DL5LP11000	5	8,0	24,5	2600	0,8	(4,5-5,5)	X		X		0	70
291DL1LP11000	12	8,0	24,5	2600	1,0	(7-13,8)	X		X		0	70
291DL2LP11000	24	8,0	24,5	2600	1,0	(14-27,6)	X		X		0	70
291DL4LP11000	48	8,0	24,5	2600	1,4	(28-56)	X		X		0	70
291DM5LP11000	5	9,5	28	3000	1,1	(4,5-5,5)	X		X		0	70
291DM1LP11000	12	9,5	28	3000	1,2	(7-13,8)	X		X		0	70
291DM2LP11000	24	9,5	28	3000	1,2	(14-27,6)	X		X		0	70
291DM4LP11000	48	9,5	28	3000	1,9	(28-56)	X		X		0	70
291DH5LP11000	5	11,3	32	3600	2,0	(4,5-5,5)	X		X		0	70
291DH1LP11000	12	11,3	32	3600	1,6	(7-13,8)	X		X		0	70
291DH2LP11000	24	11,3	32	3600	1,9	(14-27,6)	X		X		0	70
291DH4LP11000	48	11,3	32	3600	1,9	(38-56)	X		X		0	70
291DS1LP11000	12	12,8	35	4000	2,0	(7-13,8)	X		X		0	70
291DS2LP11000	24	12,8	35	4000	2,4	(14-27,6)	X		X		0	70
291DS4LP11000	48	12,8	35	4000	2,4	(38-56)	X		X		0	70

Accessories:

See page: 161

80 x 80 x 15 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 58 g

Available with:

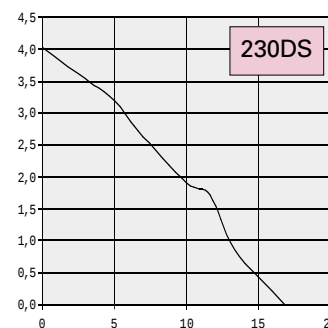
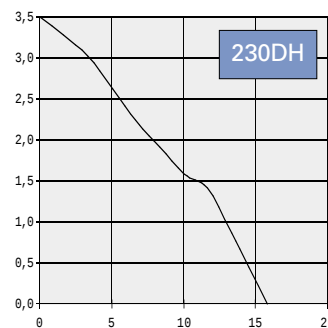
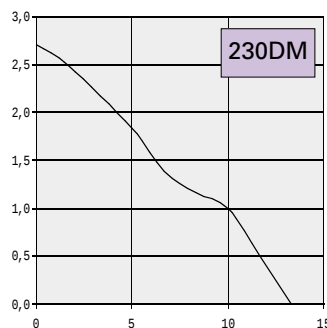
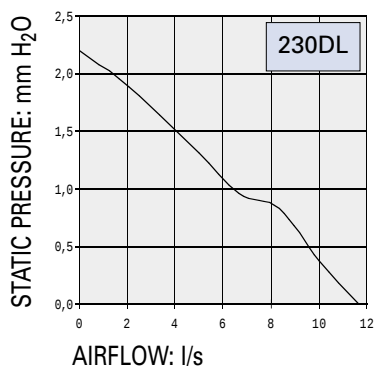
- speed sensor
- open collector alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
230DL1LP11000	12	11,7	27,5	2400	1,1	(7-13,8)	X		X		- 10	70
230DL2LP11000	24	11,7	27,5	2400	1,2	(14-27,6)	X		X		- 10	70
230DM1LP11000	12	13,3	30,5	2700	1,3	(7-13,8)	X		X		- 10	70
230DM2LP11000	24	13,3	30,5	2700	1,4	(14-27,6)	X		X		- 10	70
230DH1LP11000	12	15,8	34	3100	1,7	(7-13,8)	X		X		- 10	70
230DH2LP11000	24	15,8	34	3100	1,9	(14-27,6)	X		X		- 10	70
230DS1LP11000	12	16,8	37	3400	1,9	(7-13,8)	X		X		- 10	70
230DS2LP11000	24	16,8	37	3400	2,4	(14-27,6)	X		X		- 10	70

Additional versions:

Higher speeds (see page 45)

Accessories:

See pages: 148, 150, 151, 152, 153 and 161

DC Axial Fans



Life expectancy

80 000 hours

Brushless DC Motor

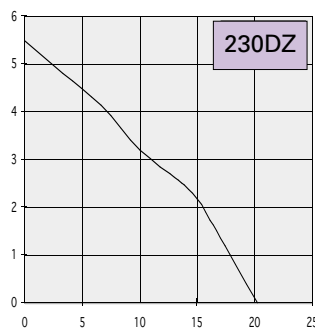
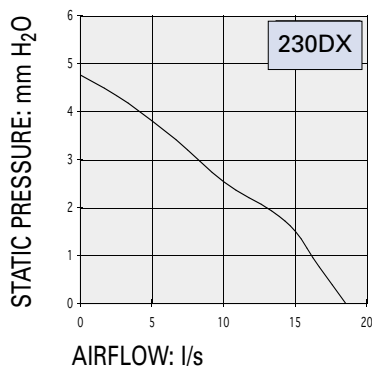
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

Available with:

- speed sensor

- open collector alarm

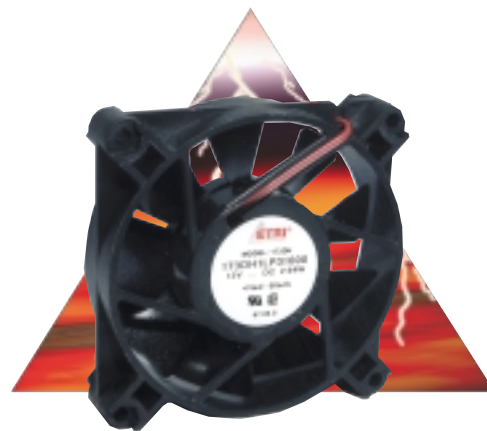


Additional versions:

Accessories:

See pages: 148, 150, 151, 152, 153 and 161

DC Axial Fans

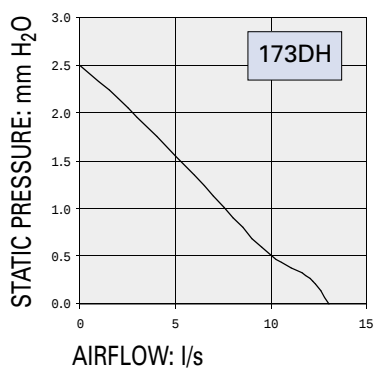


See selection guide pages 15 to 26

Electrical protection: integrated circuit
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 85 g

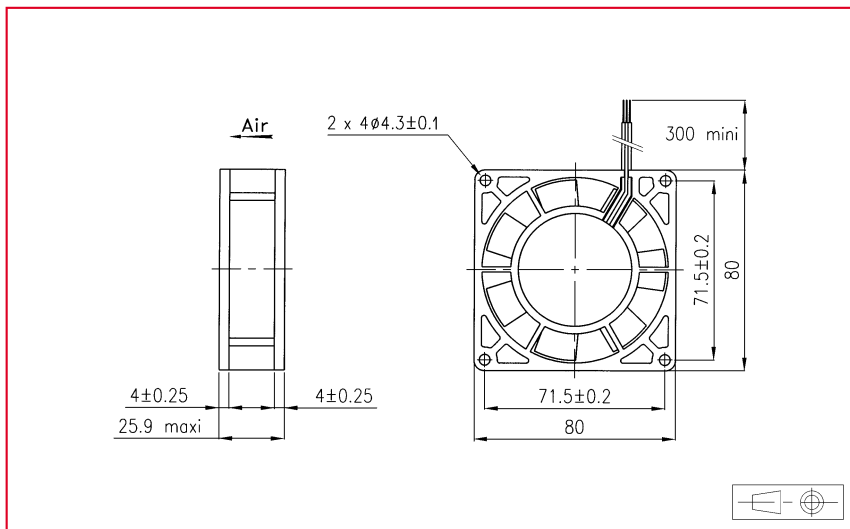
L-10 LIFE AT 40°C:

50 000 hours
For more details, see page 14

[illegible]

See pages: 148, 150, 151, 152, 153 and 161

DC Axial Fans



See selection guide pages 15 to 26

L-10 LIFE AT 40°C:

For more details, see page 14

Electrical protection: integrated circuit
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 144 g

- speed sensor
- IP 54

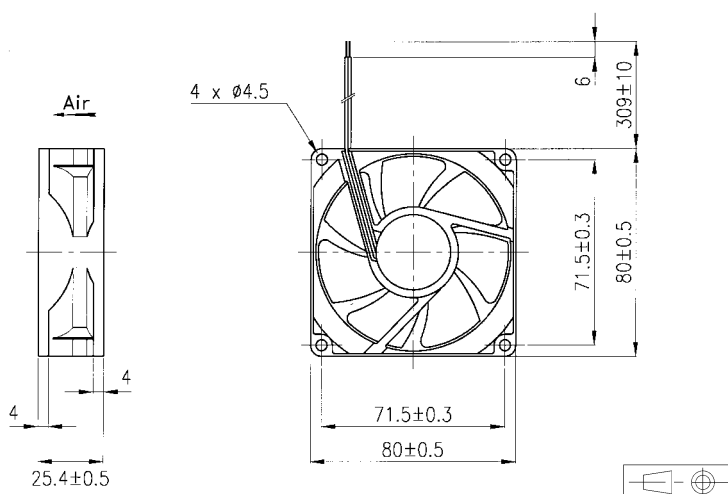


Accessories:

See pages: 148, 150, 151, 152, 153 and 161

80 x 80 x 25 mm

DC Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

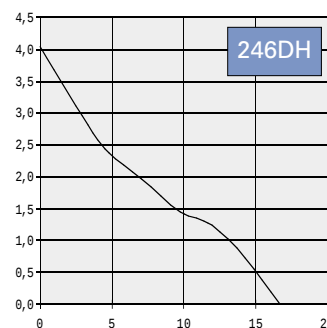
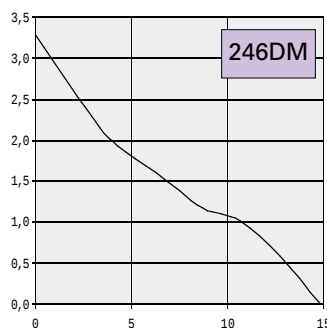
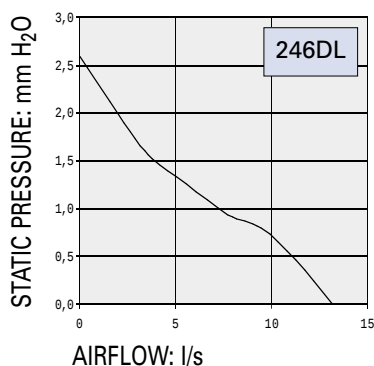
Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 88 g

Available with:

- variable speed (12 V)
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:
80 000 hours (ball bearings)
50 000 hours (sleeve bearings)
For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
246DL5LP11000	5	13,2	25	2400	1,2	(4,5-5,5)	X		X		- 10	70
246DL1LP11000	12	13,2	25	2400	1,1	(7-13,8)	X		X		- 10	70
246DL2LP11000	24	13,2	25	2400	1,1	(14-27,6)	X		X		- 10	70
246DL4LP11000	48	13,2	25	2400	2,4	(38-56)	X		X		- 10	70
246DM5LP11000	5	14,8	28	2700	1,7	(4,5-5,5)	X		X		- 10	70
246DM1LP11000	12	14,8	28	2700	1,4	(7-13,8)	X		X		- 10	70
246DM2LP11000	24	14,8	28	2700	1,4	(14-27,6)	X		X		- 10	70
246DM4LP11000	48	14,8	28	2700	2,9	(38-56)	X		X		- 10	70
246DH5LP11000	5	16,7	31	3000	2,2	(4,5-5,5)	X		X		- 10	70
246DH1LP11000	12	16,7	31	3000	1,9	(7-13,8)	X		X		- 10	70
246DH2LP11000	24	16,7	31	3000	1,7	(14-27,6)	X		X		- 10	70
246DH4LP11000	48	16,7	31	3000	3,4	(38-56)	X		X		- 10	70

Additional versions:

Sleeve bearings

Accessories:

See pages: 148, 150, 151, 152, 153 and 161

DC Axial Fans



Life expectancy

80 000 hours (ball bearings)

50 000 hours (sleeve bearings)

Brushless DC Motor

Electrical protection: impedance protected

Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

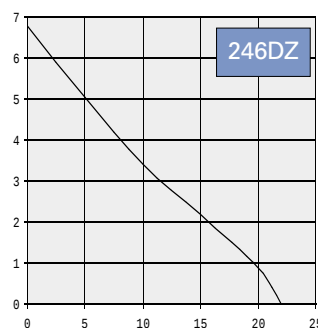
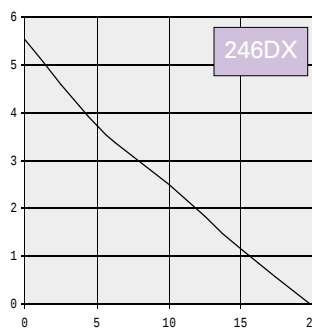
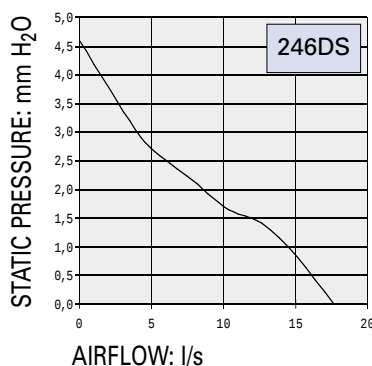
Weight: 88 g

Available with:

- variable speed

- speed sensor

- alarm

[illegible]

Additional versions:

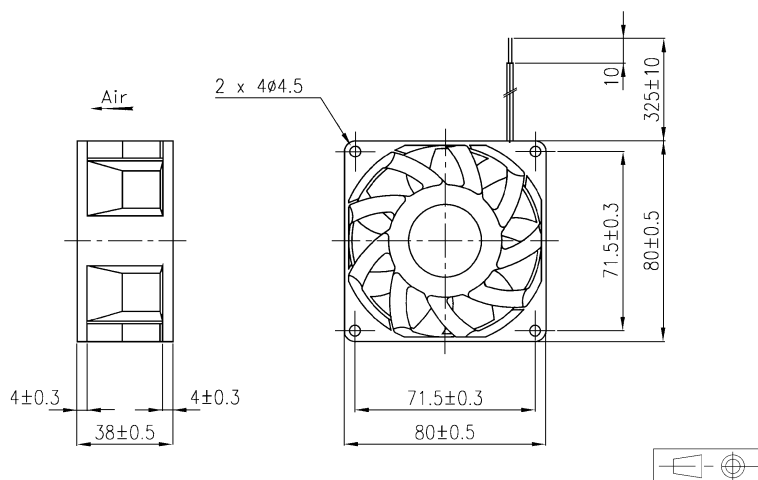
246DS available in sleeve bearings

Accessories:

See pages: 148, 150, 151, 152, 153 and 161

80 x 80 x 38 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 170 g

Available with:

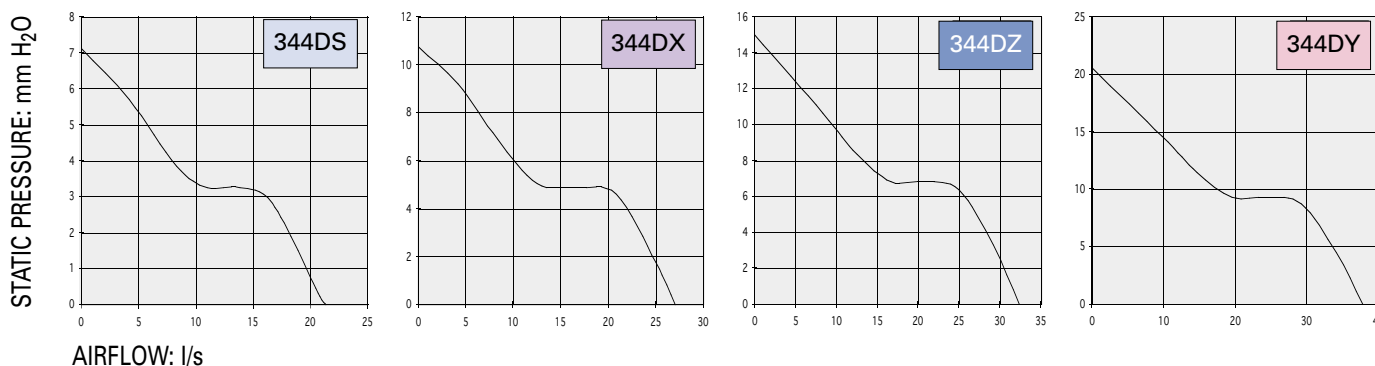
- speed sensor
- open collector alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



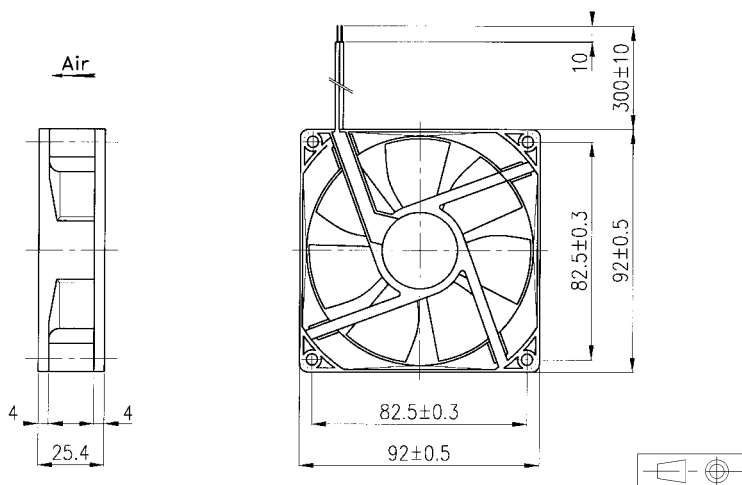
Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
344DS1LP11000	12	21,3	39	3400	2,4	(7-13,8)	X		X		- 10	70
344DS2LP11000	24	21,3	39	3400	3,6	(14-27,6)	X		X		- 10	70
344DS4LP11000	48	21,3	39	3400	3,8	(28-56)	X		X		- 10	70
344DX1LP11000	12	27,0	44,5	4200	4,6	(7-13,8)	X		X		- 10	70
344DX2LP11000	24	27,0	44,5	4200	5,8	(14-27,6)	X		X		- 10	70
344DX4LP11000	48	27,0	44,5	4200	5,3	(28-56)	X		X		- 10	70
344DZ1LP11000	12	32,3	48,5	4900	7,0	(7-13,8)	X		X		- 10	70
344DZ2LP11000	24	32,3	48,5	4900	8,2	(14-27,6)	X		X		- 10	70
344DZ4LP11000	48	32,3	48,5	4900	7,7	(28-56)	X		X		- 10	70
344DY1LP11000	12	37,8	52,5	5700	10,8	(7-13,8)	X		X		- 10	70
344DY2LP11000	24	37,8	52,5	5700	12,0	(14-27,6)	X		X		- 10	70

Accessories:

See pages: 148, 150, 151, 152, 153 and 161

92 x 92 x 25 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: integrated circuit
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 99 g

Available with:

- variable speed (12 V)
- speed sensor
- alarm

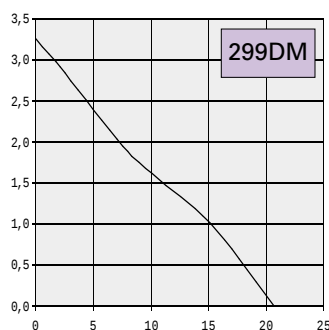
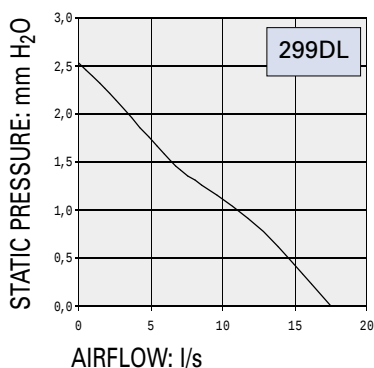
Life expectancy

L-10 LIFE AT 40°C:

80 000 hours (ball bearings)

50 000 hours (sleeve bearings)

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
299DL1LP11000	12	17,5	25	2100	0,8	(7-13,8)	X		X		- 10	70
299DL1LP31000	12	17,5	25	2100	1,0	(7-13,8)		X	X		- 10	60
299DL2LP11000	24	17,5	25	2100	1,4	(14-27,6)	X		X		- 10	70
299DL2LP31000	24	17,5	25	2100	1,7	(20,4-27,6)		X	X		- 10	60
299DL4LP11000	48	17,5	25	2100	2,4	(38-56)	X		X		- 10	70
299DM1LP11000	12	20,7	30	2450	1,3	(7-13,8)	X		X		- 10	70
299DM1LP31000	12	20,7	30	2450	1,6	(7-13,8)		X	X		- 10	60
299DM2LP11000	24	20,7	30	2450	1,9	(14-27,6)	X		X		- 10	70
299DM2LP31000	24	20,7	30	2450	1,9	(20,4-27,6)		X	X		- 10	60
299DM4LP11000	48	20,7	30	2450	2,4	(38-56)	X		X		- 10	70

Additional versions:

Higher speeds (see page 53)

Accessories:

See pages: 148, 150, 151, 153 and 161

92 x 92 x 25 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours (ball bearings)

50 000 hours (sleeve bearings)

For more details, see page 14

Brushless DC Motor

Electrical protection: integrated circuit*

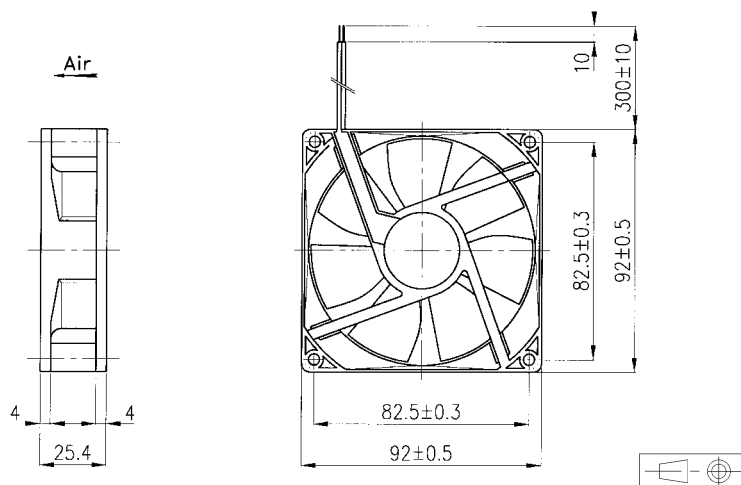
*except 299DS2: impedance protected

Housing and impeller material: Plastic UL 94 V0

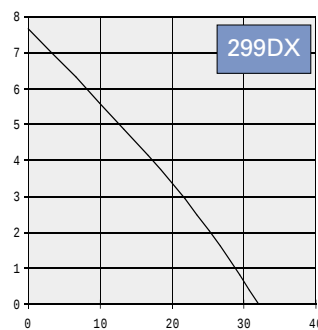
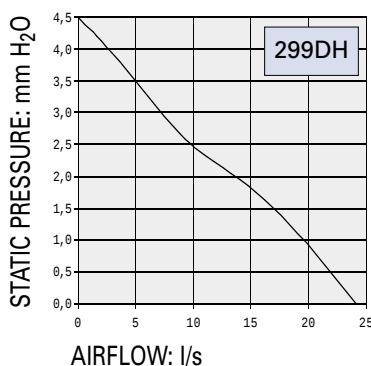
Weight: 99 g

Available with:

- variable speed
- speed sensor
- alarm



DC
Axial Fans



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
299DH1LP11000	12	24,2	34	2850	1,9	(7-13,8)	X		X		- 10	70
299DH1LP31000	12	24,2	34	2850	1,9	(7-13,8)		X	X		- 10	60
299DH2LP11000	24	24,2	34	2850	2,4	(14-27,6)	X		X		- 10	70
299DH2LP31000	24	24,2	34	2850	2,4	(20,4-27,6)		X	X		- 10	60
299DH4LP11000	48	24,2	34	2850	2,9	(38-56)	X		X		- 10	70
299DS1LP11000	12	27,3	38	3200	3,0	(7-13,8)	X		X		- 10	70
299DS2LP11000	24	27,3	38	3200	3,1	(14-27,6)	X		X		- 10	70
299DS4LP11000	48	27,3	38	3200	3,8	(38-56)	X		X		- 10	70
299DX1LP11000	12	32,0	45	3800	4,8	(7-13,8)	X		X		- 10	70
299DX2LP11000	24	32,0	45	3800	5,3	(14-27,6)	X		X		- 10	70

Additional versions:

Lower speeds (see page 52)

Accessories:

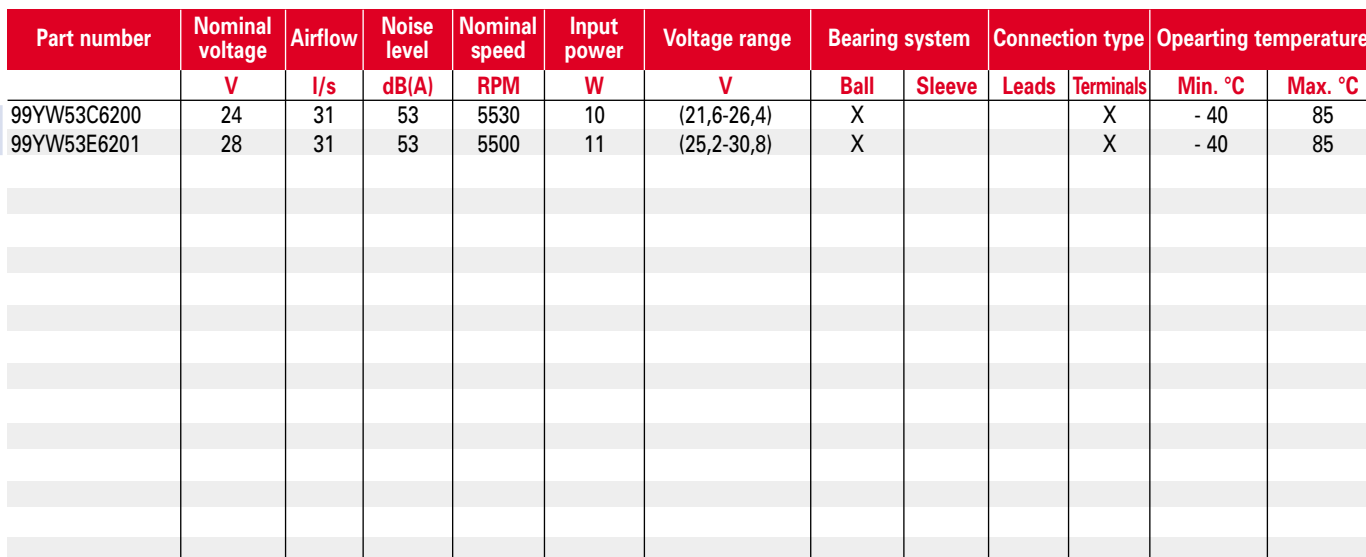
See pages: 148, 150, 151, 153 and 161

DC Axial Fans



See selection guide pages 15 to 26

For more details, see page 14



See pages: 148, 150, 151, 153, 160 and 161

92 x 92 x 38 mm

New !



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

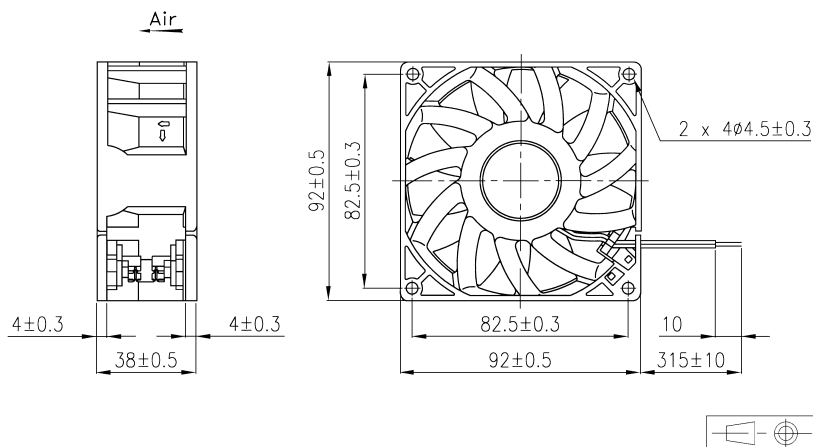
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

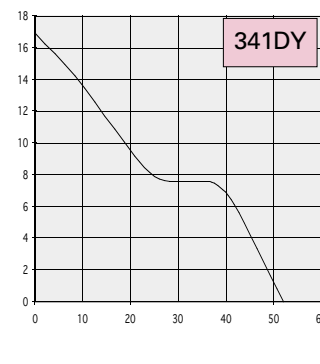
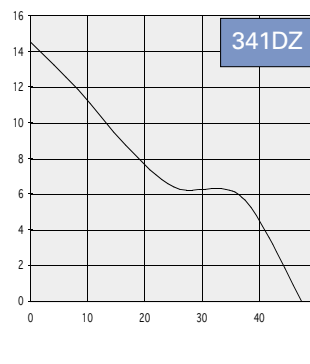
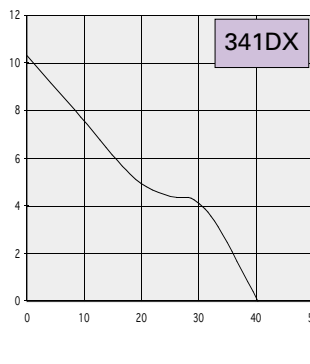
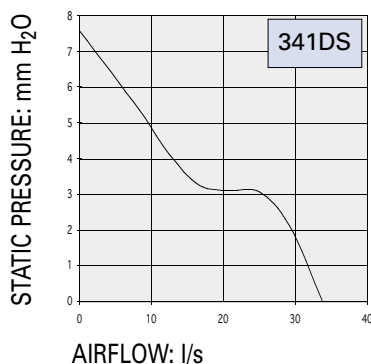
Weight: 198 g

Available with:

- speed sensor
- open collector alarm



**DC
Axial Fans**



STATIC PRESSURE: mm H₂O

AIRFLOW: l/s

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
341DS1LP11000	12	33,8	42,5	3200	4,2	(7-13,8)	X		X		- 10	70
341DS2LP11000	24	33,8	42,5	3200	4,3	(14-27,6)	X		X		- 10	70
341DS4LP11000	48	33,8	42,5	3200	4,8	(28-56)	X		X		- 10	70
341DX1LP11000	12	40,3	47,5	3800	6,0	(7-13,8)	X		X		- 10	70
341DX2LP11000	24	40,3	47,5	3800	6,7	(14-27,6)	X		X		- 10	70
341DX4LP11000	48	40,3	47,5	3800	6,7	(28-56)	X		X		- 10	70
341DZ1LP11000	12	47,3	52,5	4400	9,0	(7-13,8)	X		X		- 10	70
341DZ2LP11000	24	47,3	52,5	4400	9,6	(14-27,6)	X		X		- 10	70
341DZ4LP11000	48	47,3	52,5	4400	9,6	(28-56)	X		X		- 10	70
341DY1LP11000	12	52,0	55	4800	12,0	(7-13,8)	X		X		- 10	70
341DY2LP11000	24	52,0	55	4800	12,0	(14-27,6)	X		X		- 10	70

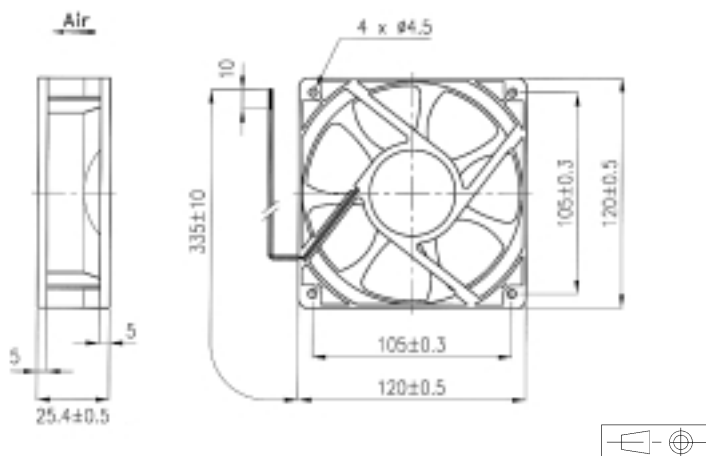
Accessories:

See pages: 148, 150, 151, 153 and 161

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

120 x 120 x 25 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 180 g

Available with:

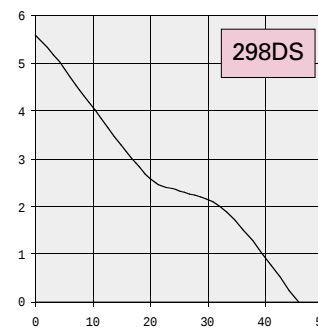
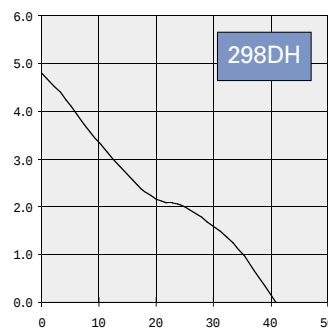
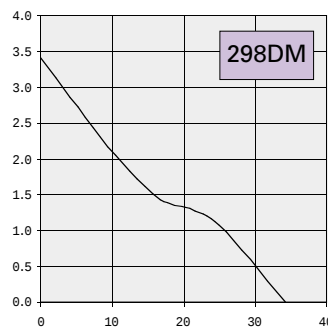
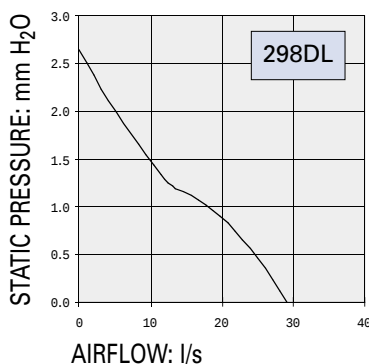
- variable speed (12 V)
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
298DL1LP11000	12	29,2	30,2	1750	1,68	(7-13,8)	X		X		- 10	70
298DL2LP11000	24	29,2	30,2	1750	2,40	(14-27,6)	X		X		- 10	70
298DM1LP11000	12	34,2	34	2100	2,40	(7-13,8)	X		X		- 10	70
298DM2LP11000	24	34,2	34	2100	3,36	(14-27,6)	X		X		- 10	70
298DH1LP11000	12	40,8	37,6	2470	4,32	(7-13,8)	X		X		- 10	70
298DH2LP11000	24	40,8	37,6	2470	4,80	(14-27,6)	X		X		- 10	70
298DS1LP11000	12	45,6	42,5	2800	7,32	(7-13)	X		X		- 10	70
298DS2LP11000	24	45,6	42,5	2800	6,24	(14-27,6)	X		X		- 10	70

Additional versions:

New series: 398D (see page 57)

Accessories:

See pages: 148, 150, 151, 152, 153, 157, and 161

120 x 120 x 25 mm

New !



Approvals

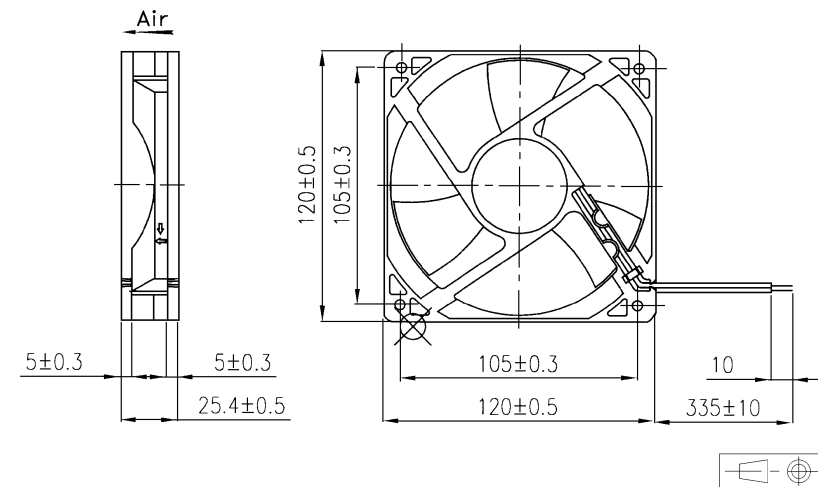
See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



DC
Axial Fans

Brushless DC Motor

Electrical protection: impedance protected

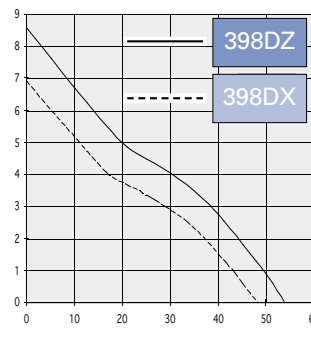
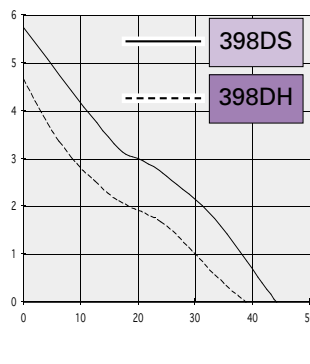
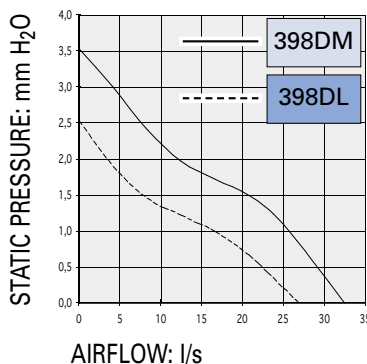
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

Weight: 180 g

Available with:

- speed sensor
- open collector alarm



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
398DL1LP11000	12	27,0	31	1950	1,7	(7-13,8)	x		x		- 10	60
398DL2LP11000	24	27,0	31	1950	1,7	(14-27,6)	x		x		- 10	60
398DL4LP11000	48	27,0	31	1950	1,9	(28-56)	x		x		- 10	60
398DM1LP11000	12	32,5	34	2300	2,0	(7-13,8)	x		x		- 10	60
398DM2LP11000	24	32,5	34	2300	2,2	(14-27,6)	x		x		- 10	60
398DM4LP11000	48	32,5	34	2300	2,4	(28-56)	x		x		- 10	60
398DH1LP11000	12	38,8	39	2670	3,2	(7-13,8)	x		x		- 10	60
398DH2LP11000	24	38,8	39	2670	3,4	(14-27,6)	x		x		- 10	60
398DH4LP11000	48	38,8	39	2670	3,4	(28-56)	x		x		- 10	60
398DS1LP11000	12	44,2	42,5	3000	3,6	(7-13,8)	x		x		- 10	60
398DS2LP11000	24	44,2	42,5	3000	3,6	(14-27,6)	x		x		- 10	60
398DS4LP11000	48	44,2	42,5	3000	3,8	(28-56)	x		x		- 10	60
398DX1LP11000	12	48,2	45,5	3300	4,8	(7-13,8)	x		x		- 10	60
398DX2LP11000	24	48,2	45,5	3300	4,8	(14-27,6)	x		x		- 10	60
398DZ1LP11000	12	53,8	48,5	3700	6,0	(7-13,8)	x		x		- 10	60
398DZ2LP11000	24	53,8	48,5	3700	6,0	(14-27,6)	x		x		- 10	60

Additional versions:

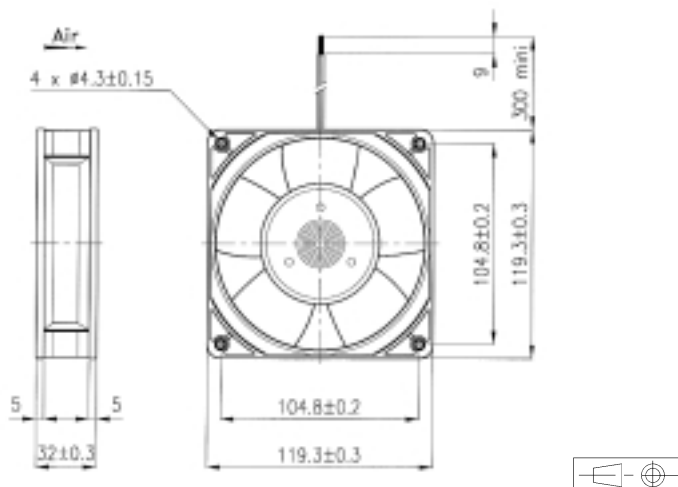
398DX and 398DZ in 48 V

Accessories:

See pages: 148, 150, 151, 152, 153, 157, and 161

120 x 120 x 32 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: integrated circuit
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 230 g

Available with:

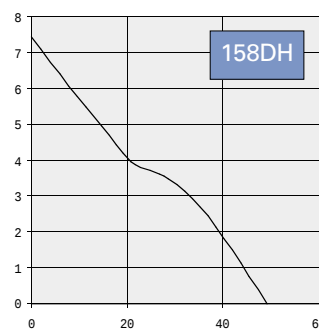
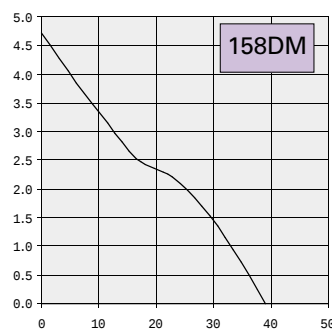
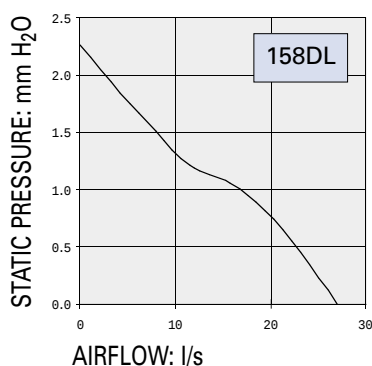
- variable speed
- speed sensor
- alarm
- IP 54

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
158DL5LP11000	5	27	29,5	1680	2,3	(4,5-6)	X		X		- 20	70
158DL1LP11000	12	27	29,5	1680	2,3	(6-15)	X		X		- 20	70
158DL2LP11000	24	27	29,5	1680	2,3	(15-28)	X		X		- 20	70
158DL4LP11000	48	27	29,5	1680	2,3	(22-56)	X		X		- 20	70
158DM5LP11000	5	39	37,5	2450	3,5	(4,5-6)	X		X		- 20	70
158DM1LP11000	12	39	37,5	2450	3,5	(6-15)	X		X		- 20	70
158DM2LP11000	24	39	37,5	2450	3,5	(15-28)	X		X		- 20	70
158DM4LP11000	48	39	37,5	2450	3,5	(22-56)	X		X		- 20	70
158DH5LP11000	5	49	42,5	3050	6,5	(4,5-6)	X		X		- 20	70
158DH1LP11000	12	49	42,5	3050	6,5	(6-15)	X		X		- 20	70
158DH2LP11000	24	49	42,5	3050	6,5	(15-28)	X		X		- 20	70
158DH4LP11000	48	49	42,5	3050	6,5	(22-56)	X		X		- 20	70

Additional versions:

Other voltages - other speeds - salt spray protected - shock and vibration protected

Accessories:

See pages: 148, 150, 151, 152, 153, 157 and 161

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

DC Axial Fans



Life expectancy

80 000 hours

Brushless DC Motor

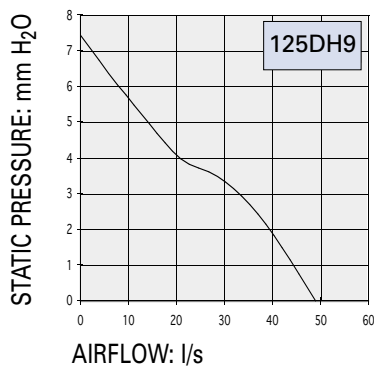
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

Available with:

- speed sensor

- alarm

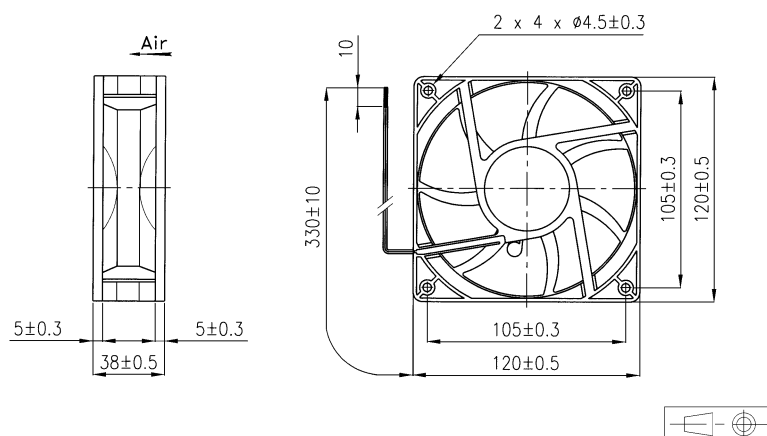


Accessories:

See pages: 148, 150, 151, 152, 153, 157 and 161

120 x 120 x 38 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 V0
Impeller material: Plastic UL 94 V0
Weight: 256 g

Available with:

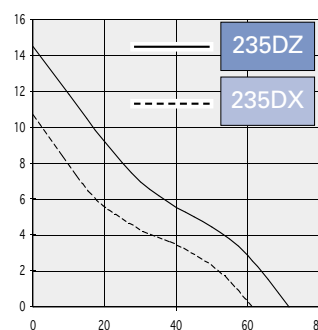
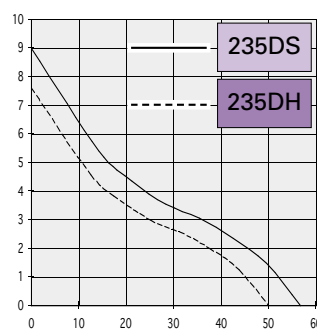
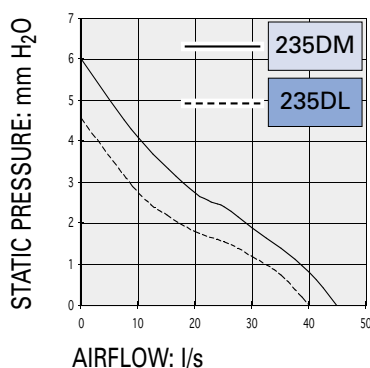
- variable speed (12 V)
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
235DL1LP11000	12	40,0	34	2000	2,3	(4-13,8)	X		X		- 10	60
235DL2LP11000	24	40,0	34	2000	3,6	(7-27,6)	X		X		- 10	60
235DL4LP11000	48	40,0	34	2000	2,9	(28-56)	X		X		- 10	60
235DM1LP11000	12	44,8	38	2300	3,1	(4-13,8)	X		X		- 10	60
235DM2LP11000	24	44,8	38	2300	4,6	(7-27,6)	X		X		- 10	60
235DM4LP11000	48	44,8	38	2300	4,6	(28-56)	X		X		- 10	60
235DH1LP11000	12	50,0	41	2600	3,8	(4-13,8)	X		X		- 10	60
235DH2LP11000	24	50,0	41	2600	5,8	(7-27,6)	X		X		- 10	60
235DH4LP11000	48	50,0	41	2600	5,8	(28-56)	X		X		- 10	60
235DS1LP11000	12	56,7	44	2900	5,5	(4-13,8)	X		X		- 10	60
235DS2LP11000	24	56,7	44	2900	7,2	(7-27,6)	X		X		- 10	60
235DS4LP11000	48	56,7	44	2900	7,2	(28-56)	X		X		- 10	60
235DX1LP11000	12	61,3	48	3200	7,2	(4-13,8)	X		X		- 10	60
235DX2LP11000	24	61,3	48	3200	9,1	(7-27,6)	X		X		- 10	60
235DZ1LP11000	12	71,7	53	3700	12,6	(4-13,8)	X		X		- 10	60
235DZ2LP11000	24	71,7	53	3700	12,0	(7-27,6)	X		X		- 10	60

Additional versions:

235DX in 48 V

Accessories:

See pages: 148, 150, 151, 152, 153, 157 and 161

120 x 120 x 38 mm

New !



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

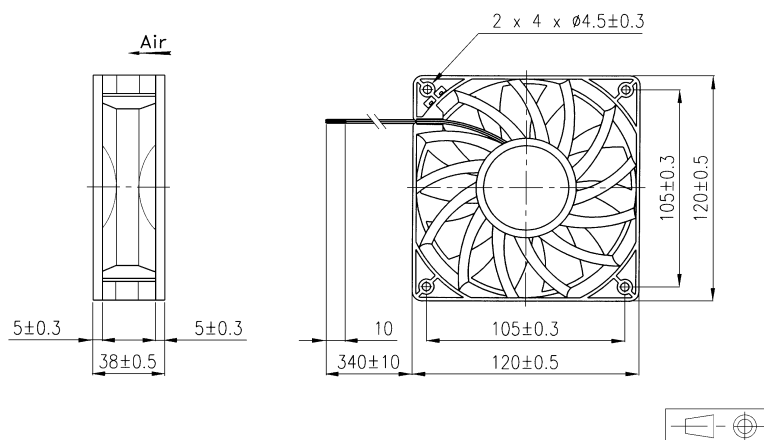
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

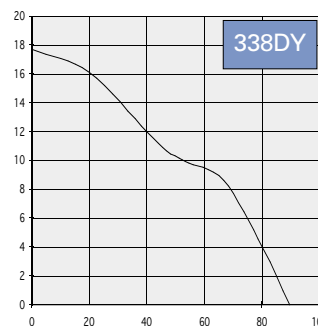
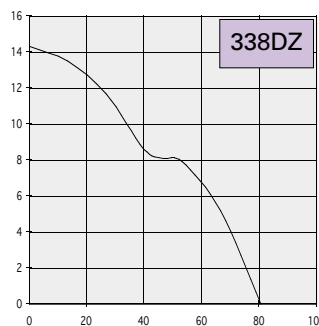
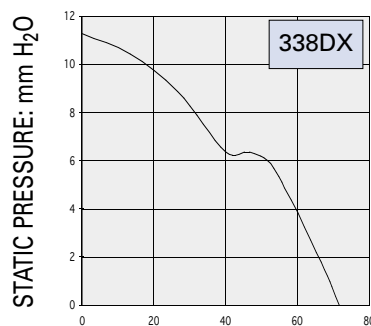
Weight: 370 g

Available with:

- speed sensor
- alarm



DC
Axial Fans



AIRFLOW: l/s

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
338DX1LP11000	12	71,7	53	3200	12,0	(7-13,2)	X		X		- 10	60
338DX2LP11000	24	71,7	53	3200	13,4	(14-26,4)	X		X		- 10	60
338DX4LP11000	48	71,7	53	3200	13,4	(28-56)	X		X		- 10	60
338DZ1LP11000	12	80,7	56,5	3600	18,0	(7-13,2)	X		X		- 10	60
338DZ2LP11000	24	80,7	56,5	3600	19,2	(14-26,4)	X		X		- 10	60
338DZ4LP11000	48	80,7	56,5	3600	18,2	(28-56)	X		X		- 10	60
338DY1LP11000	12	89,7	59	4000	24,0	(7-13,2)	X		X		- 10	60
338DY2LP11000	24	89,7	59	4000	24,0	(14-26,4)	X		X		- 10	60
338DY4LP11000	48	89,7	59	4000	24,0	(28-56)	X		X		- 10	60

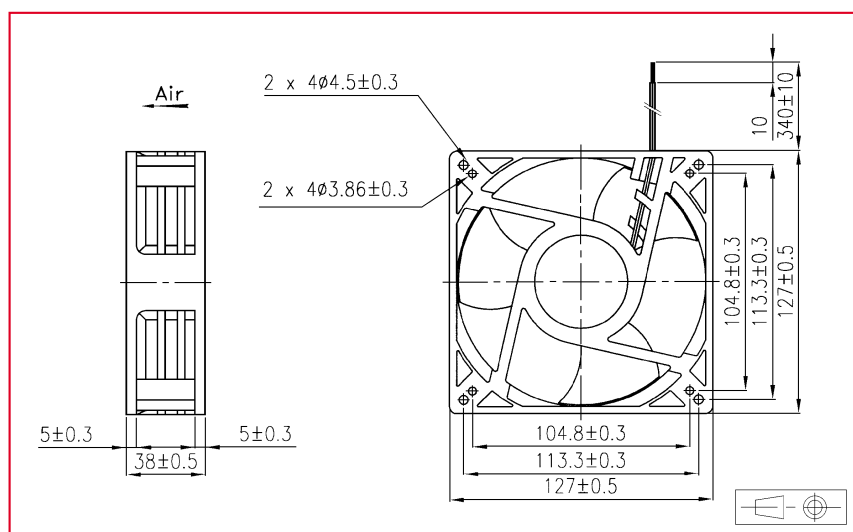
Accessories:

See pages: 148, 150, 151, 152, 153, 157 and 161

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

127 x 127 x 38 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 VO
Impeller material: Plastic UL 94 VO
Weight: 370 g

Available with:

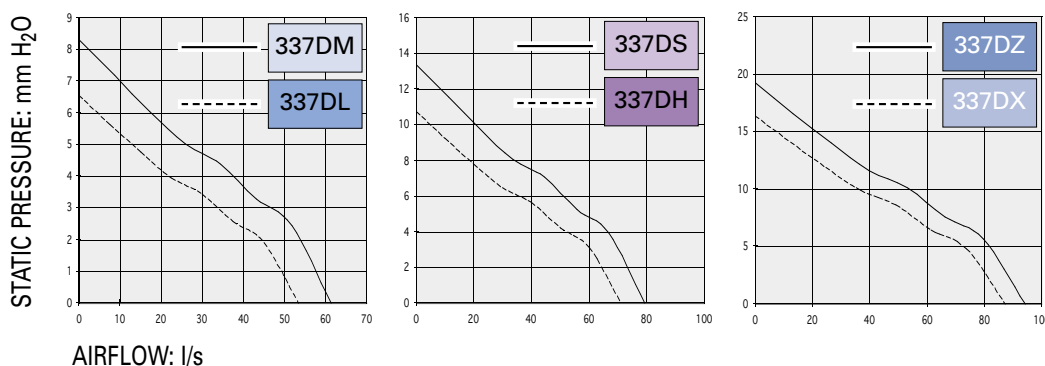
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
337DL1LP11000	12	53,3	43	2600	4,8	(7-13,6)	x		x		- 10	70
337DL2LP11000	24	53,3	43	2600	5,3	(14-27,6)	x		x		- 10	70
337DL4LP11000	48	53,3	43	2600	5,8	(28-56)	x		x		- 10	70
337DM1LP11000	12	61,4	46,5	3000	7,0	(7-13,6)	x		x		- 10	70
337DM2LP11000	24	61,4	46,5	3000	7,4	(14-27,6)	x		x		- 10	70
337DM4LP11000	48	61,4	46,5	3000	7,7	(28-56)	x		x		- 10	70
337DH1LP11000	12	71,2	49,5	3400	9,8	(7-13,6)	x		x		- 10	70
337DH2LP11000	24	71,2	49,5	3400	9,8	(14-27,6)	x		x		- 10	70
337DH4LP11000	48	71,2	49,5	3400	10,1	(28-56)	x		x		- 10	70
337DS1LP11000	12	79,3	52,5	3800	13,0	(7-13,6)	x		x		- 10	70
337DS2LP11000	24	79,3	52,5	3800	13,0	(14-27,6)	x		x		- 10	70
337DS4LP11000	48	79,3	52,5	3800	13,4	(28-56)	x		x		- 10	70
337DX1LP11000	12	87,3	55,5	4200	16,8	(7-13,6)	x		x		- 10	70
337DX2LP11000	24	87,3	55,5	4200	16,8	(14-27,6)	x		x		- 10	70
337DZ1LP11000	12	94,4	58,5	4600	22,1	(7-13,6)	x		x		- 10	70
337DZ2LP11000	24	94,4	58,5	4600	22,1	(14-27,6)	x		x		- 10	70

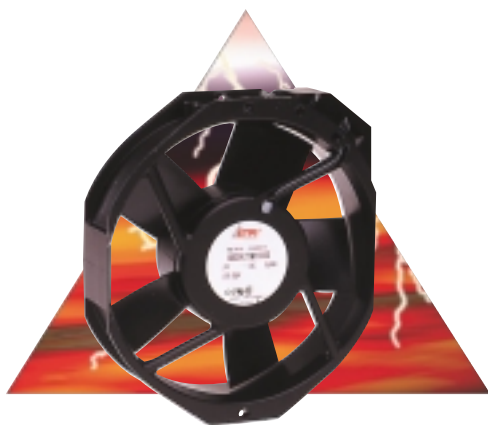
Additional versions:

337DX in 48 V

Accessories:

See page: 161

172 x 150 x 38 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: integrated circuit

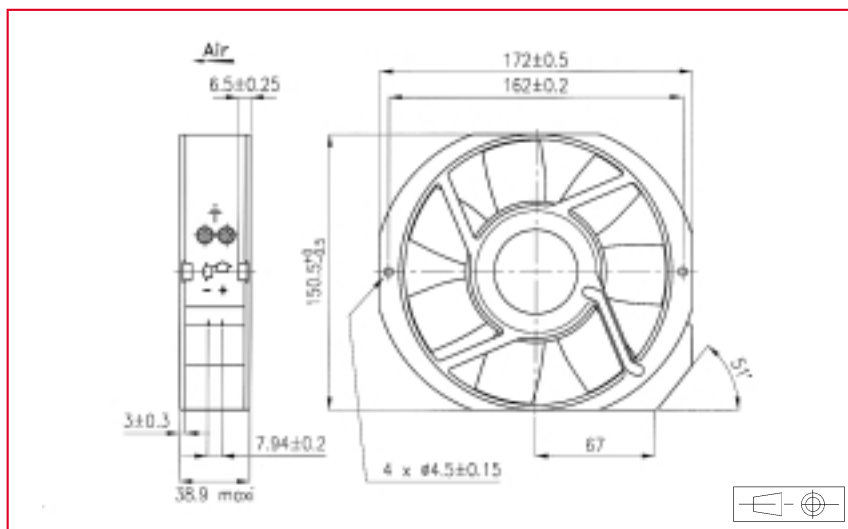
Housing material: Zamak

Impeller material: Plastic UL 94 VO

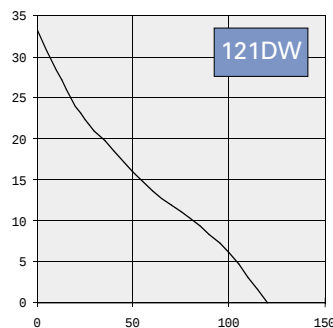
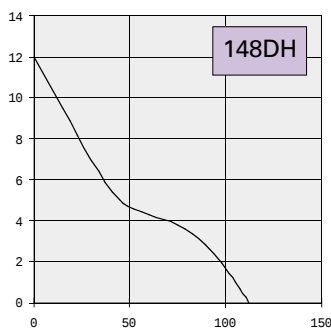
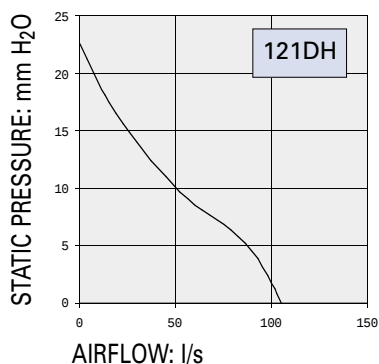
Weight: 770 g

Available with:

- speed sensor
- alarm
- flying leads
- IP 54



DC
Axial Fans



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
121DH2TM11200	24	105	62	4000	23	(19-28)	X			X	- 10	55
148DH1TM11000	12	110	58	3100	13	(9-15)	X			X	- 10	70
148DH2TM11000	24	110	58	3100	16	(19-28)	X			X	- 10	55
148DH4TM11000	48	110	58	3100	16	(40-57)	X			X	- 10	55
148DH9TM11207	110	110	58	3100	13	(76-140)	X			X	- 25	70
121DW2TM11200	24	120	66	4650	30	(19-26,5)	X			X	- 10	55
121DW9TM11200	28	120	66	4650	30	(19-31)	X			X	- 10	55

Additional versions:

Other speeds - salt spray protected

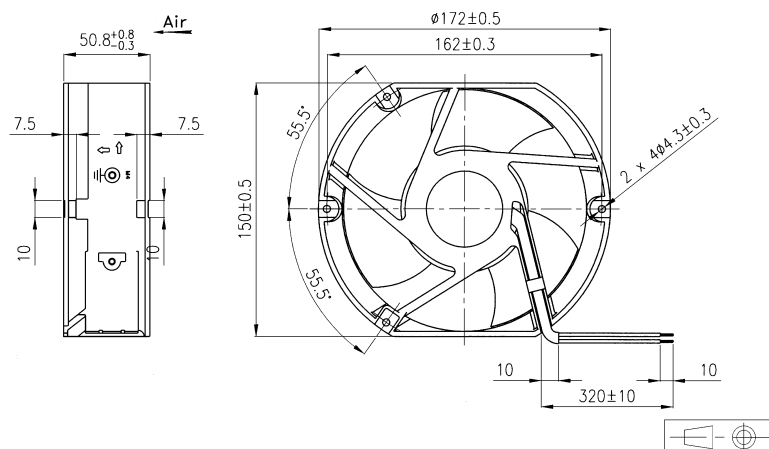
Accessories:

See pages: 150, 151, 153, 157 and 161

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

172 x 150 x 50 mm

DC
Axial Fans



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

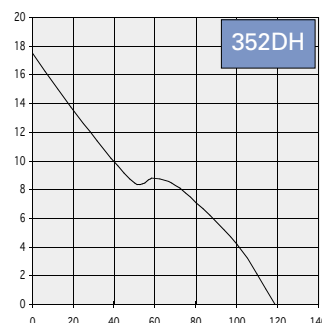
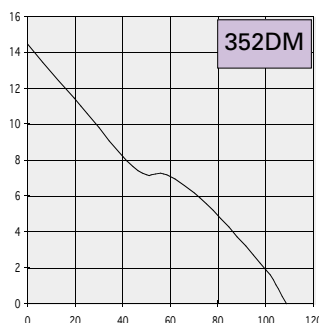
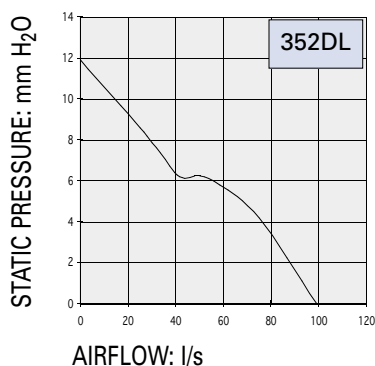
Housing material: Aluminium

Impeller material: Plastic UL 94 V0

Weight: 840 g

Available with:

- speed sensor
- alarm



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
352DL1LM11000	12	99,2	50	2800	10,1	(8-14)	X		X		- 10	70
352DL2LM11000	24	99,2	50	2800	10,1	(12-28)	X		X		- 10	70
352DL4LM11000	48	99,2	50	2800	11,5	(24-56)	X		X		- 10	70
352DM1LM11000	12	108,7	52	3050	12,6	(8-14)	X		X		- 10	70
352DM2LM11000	24	108,7	52	3050	11,8	(12-28)	X		X		- 10	70
352DM4LM11000	48	108,7	52	3050	13,9	(24-56)	X		X		- 10	70
352DH1LM11000	12	118,8	55	3350	16,8	(8-14)	X		X		- 10	70
352DH2LM11000	24	118,8	55	3350	15,1	(12-28)	X		X		- 10	70
352DH4LM11000	48	118,8	55	3350	16,8	(24-56)	X		X		- 10	70

Additional versions:

Higher speeds (see page 65)

Accessories:

See pages: 150, 151, 153, 157 and 161

DC Axial Fans

New !



65

ø 172 x 50 mm

New !



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

Housing material: Aluminium

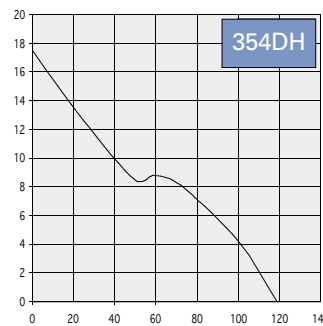
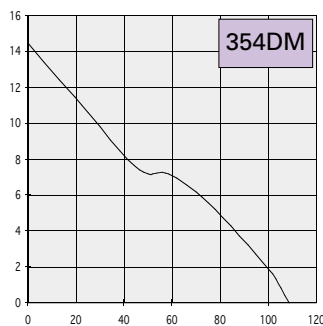
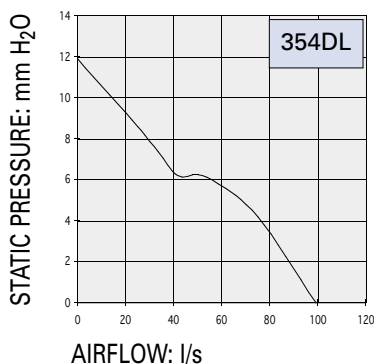
Impeller material: Plastic UL 94 V0

Weight: 840 g

Available with:

- speed sensor

- alarm



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
354DL1LM11000	12	99,2	50	2800	10,1	(8-14)	X		X		- 10	70
354DL2LM11000	24	99,2	50	2800	10,1	(12-28)	X		X		- 10	70
354DL4LM11000	48	99,2	50	2800	11,5	(24-56)	X		X		- 10	70
354DM1LM11000	12	108,7	52	3050	12,6	(8-14)	X		X		- 10	70
354DM2LM11000	24	108,7	52	3050	11,8	(12-28)	X		X		- 10	70
354DM4LM11000	48	108,7	52	3050	13,9	(24-56)	X		X		- 10	70
354DH1LM11000	12	118,8	55	3350	16,8	(8-14)	X		X		- 10	70
354DH2LM11000	24	118,8	55	3350	15,1	(12-28)	X		X		- 10	70
354DH4LM11000	48	118,8	55	3350	16,8	(24-56)	X		X		- 10	70

Additional versions:

Higher speeds (see page 67)

Accessories:

See pages: 150, 151, 153, 157 and 161

ø 172 x 50 mm

New !



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

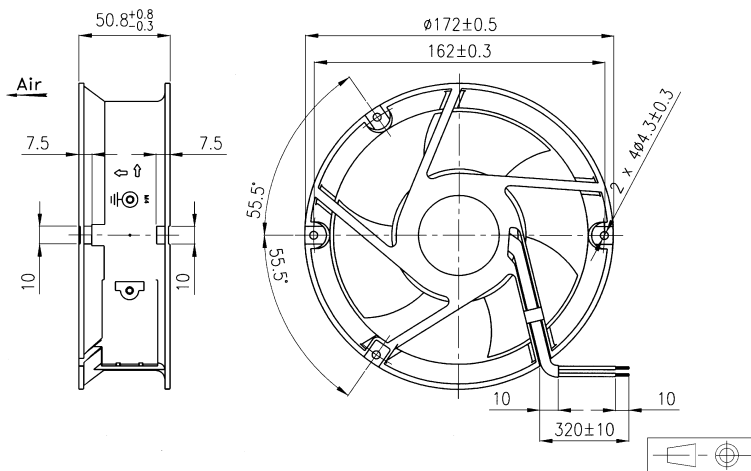
Housing material: Aluminium

Impeller material: Plastic UL 94 VO

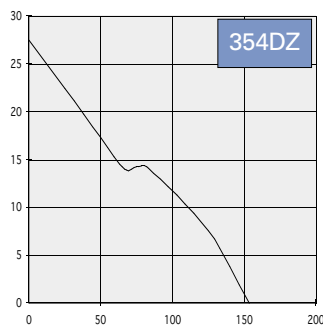
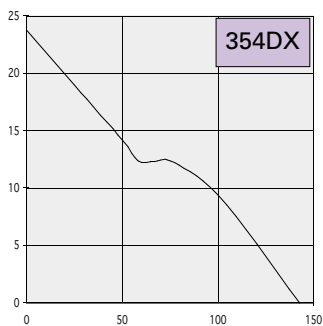
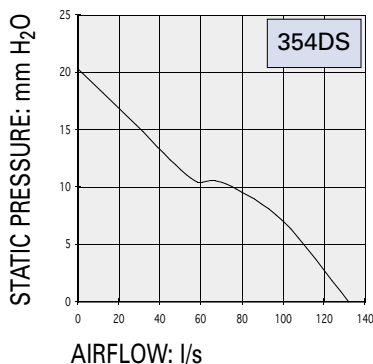
Weight: 840 g

Available with:

- speed sensor
- alarm



DC
Axial Fans



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
354DS1LM11000	12	132,0	57,5	3700	25,3	(8-14)	X		X		- 10	70
354DS2LM11000	24	132,0	57,5	3700	20,4	(12-28)	X		X		- 10	70
354DS4LM11000	48	132,0	57,5	3700	23,5	(24-56)	X		X		- 10	70
354DX2LM11000	24	146,7	60	4000	26,4	(12-28)	X		X		- 10	70
354DX4LM11000	48	146,7	60	4000	30,7	(24-56)	X		X		- 10	70
354DZ2LM11000	24	153,3	63	4300	32,9	(12-28)	X		X		- 10	70

Additional versions:

Lower speeds (see page 66)

Accessories:

See pages: 150, 151, 153, 157 and 161

AC Axial Fans

TOLERANCES (Indicative values)

Low speed AC fans: 126LH; 126LJ; 99XM; 99XW; 146DF; 98XC; 98XY; 141LV; 141LT; 125LG; 125XL; 148VE; 148VP; 154DE; 154DG

Speed / airflow	+/- 10 %
Static pressure	+/- 20 %
Input power	+/- 30 %
Curent	+/- 30 %
Voltage: 208-240V	- 10 % + 6 %
Other voltages:	+/- 10 %

Other series

Speed / airflow	+/- 4 %
Static pressure	+/- 8 %
Input power	+/- 10 %
Curent	+/- 10 %
Voltage: 208-240V	- 10 % + 6 %
Other voltages:	+/- 10 %

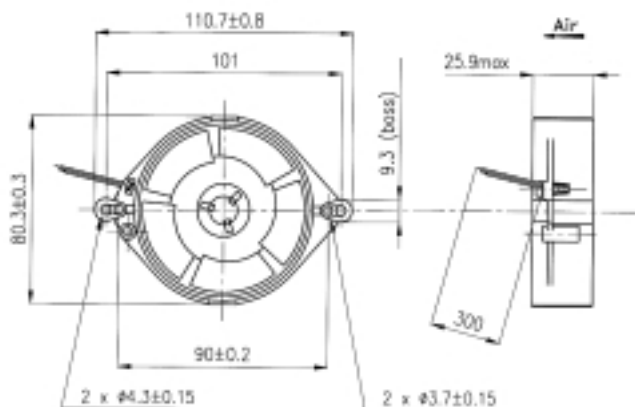
EXAMPLE OF CODIFICATION

	125	XR	0	1	81	000
Series code						
Speed						
Construction code: 0 = ball bearings; 2 = sleeve bearings; 5 = high temperature fan (ball bearings)						
1 = standard; 3 = speed sensor						
Voltage: 81 = 208-240 V; 82 = 115 V; 8L = 24 V						
Design code: 000 standard version; XXX = option (salt spray protection, tropicalization,...)						

	148	VK	0	2	81	000
Series code						
Speed						
Construction code: 0 = ball bearings; 2 = sleeve bearings; 5 = high temperature fan (ball bearings)						
2 = standard; 4 = speed sensor						
Voltage: 81 = 208-240 V; 82 = 115 V; 8L = 24 V						
Design code: 000 standard version; XXX = option (salt spray protection, tropicalization,...)						

80 x 80 x 25 mm

AC Axial Fans



Approvals

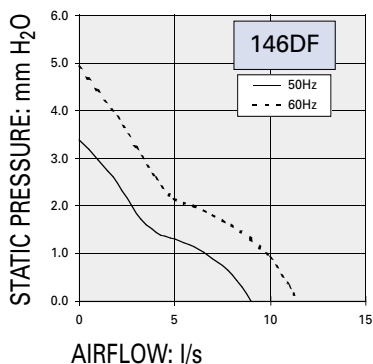
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:
80 000 hours (ball bearings)
50 000 hours (sleeve bearings)
For more details, see page 14

AC Motor

Electrical protection: impedance protected
Housing material: Zamak
Impeller material: Plastic UL 94 V0
Weight: 0,3 kg



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type		Opearting temperature		
	V	l/s	dB(A)	rpm	Hz		μF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
146DF2181000	208-240	9	26	2500	50	1		11	60	70		X	X		- 10	55
		11	32	3100	60	1		9	50	60		X	X		- 10	55
146DF2182000	115	9	26	2500	50	1		10	105	120		X	X		- 10	55
		11	32	3100	60	1		8	90	110		X	X		- 10	55

Additional versions:

Other speeds - ball bearings - salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 153

80 x 80 x 38 mm



Approvals

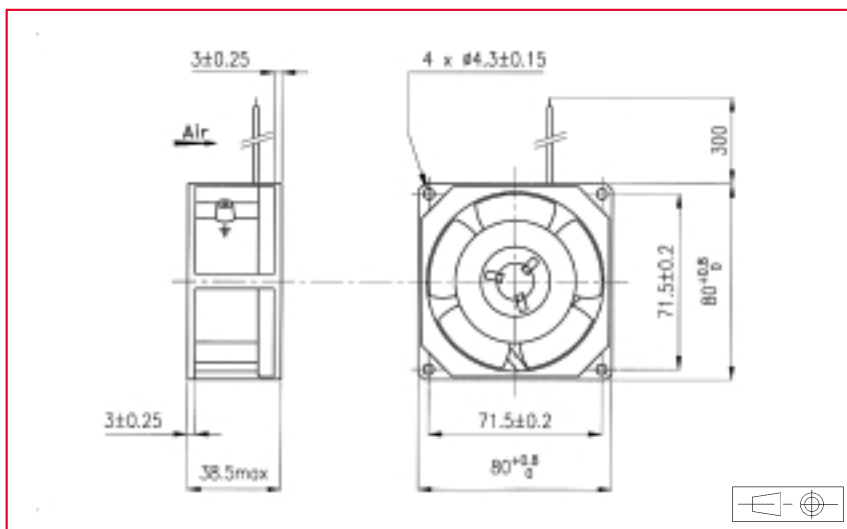
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

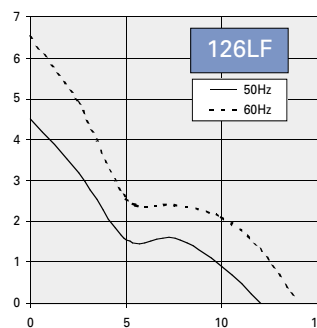
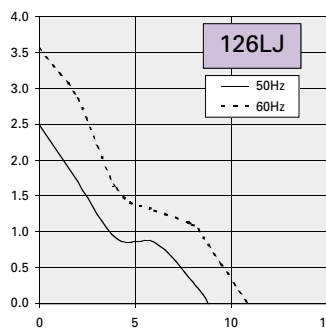
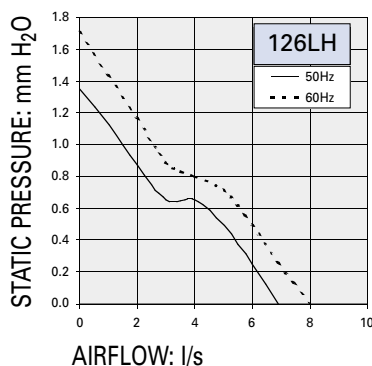
L-10 LIFE AT 40°C:
80 000 hours (ball bearings)
50 000 hours (sleeve bearings)
For more details, see page 14

AC Motor

Electrical protection: impedance protected
Housing material: Zamak
Impeller material: Plastic UL 94 V0
Weight: 0,4 kg



AC
Axial Fans



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
126LH0181000	208-240	6,5	14	1550	50	1		7	35	40	X		X		- 10	70
		8	18	1850	60	1		6	30	35	X		X		- 10	70
126LH0182000	115	6	10	1350	50	1		5	50	60	X		X		- 10	70
126LJ0181000	208-240	7	11	1550	60	1		4	50	60	X		X		- 10	70
		9	22	2000	50	1		8	45	50	X		X		- 10	70
		11	25	2400	60	1		7	40	45	X		X		- 10	70
126LJ0182000	115	9	22	2000	50	1		7	75	80	X		X		- 10	70
126LF0181000	208-240	11	25	2400	60	1		6	65	70	X		X		- 10	70
		12,5	30	2750	50	1		12	75	90	X		X		- 10	70
		15	35	3250	60	1		9	60	70	X		X		- 10	70
126LF0182000	115	12,5	30	2750	50	1		10	130	170	X		X		- 10	70
		15	35	3250	60	1		8	100	140	X		X		- 10	70

Additional versions:

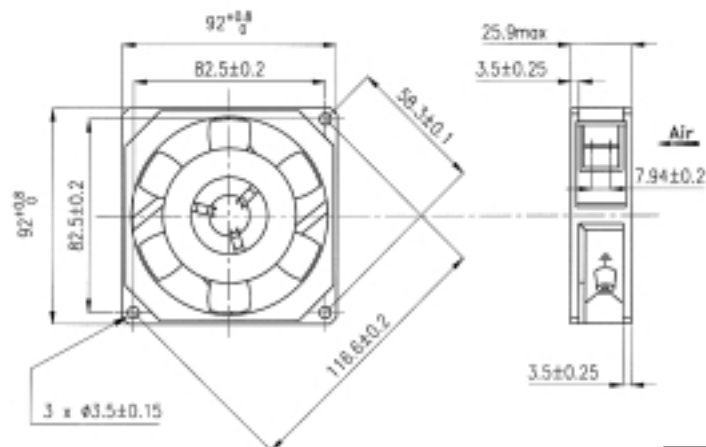
Shock and vibration protected - wide temperature range
Sleeve bearings

Accessories:

See pages: 148, 150, 151, 152, 153 and 161

92 x 92 x 25 mm

AC Axial Fans



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

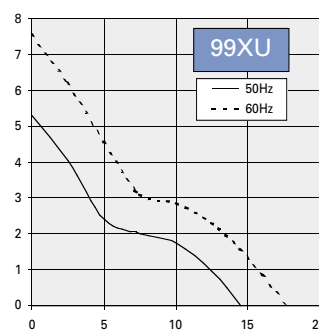
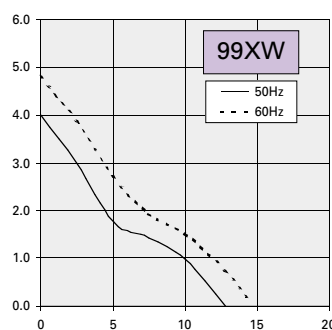
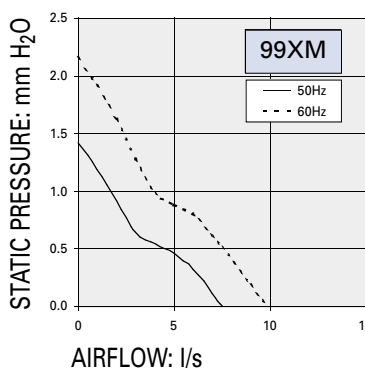
L-10 LIFE AT 40°C:
80 000 hours (ball bearings)
50 000 hours (sleeve bearings)
For more details, see page 14

AC Motor

Electrical protection: impedance protected
Housing material: Zamak
Impeller material: Plastic UL 94 V0
Weight: 0,4 kg

Available with:

- flying leads
- speed sensor



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		μF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
99XM0181000	208-240	8	21	1500	50	1		8	40	45	X			X	- 10	70
		10	25,5	1800	60	1		7	35	40	X			X	- 10	70
99XM2181000	208-240	8	20	1500	50	1		8	40	45		X		X	- 10	55
		10	25	1800	60	1		7	35	40		X		X	- 10	55
99XW0181000	208-240	12	32	2200	50	1		9	50	60	X			X	- 10	70
		14	35,5	2500	60	1		7	40	50	X			X	- 10	70
99XW2181000	208-240	12	30	2200	50	1		9	50	60		X		X	- 10	55
		14	33	2500	60	1		7	40	50		X		X	- 10	55
99XU0181000	208-240	15	38	2700	50	1		14	70	100	X			X	- 10	70
		18,5	42	3200	60	1		11	60	90	X			X	- 10	70
99XU2181000	208-240	14,5	36	2600	50	1		14	70	100		X		X	- 10	55
		17,5	41	3100	60	1		11	60	90		X		X	- 10	55

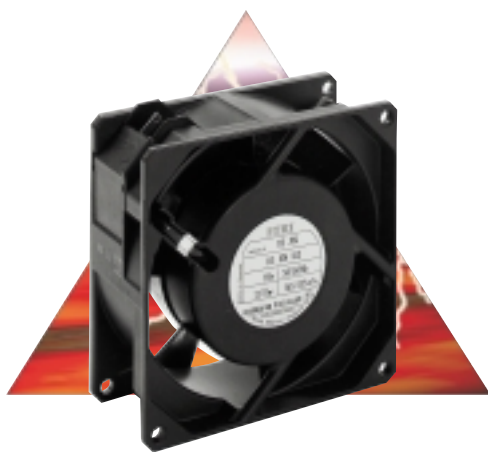
Additional versions:

115 V 50/60 Hz - salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 148, 150, 151, 153, 160 and 161

92 x 92 x 38 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

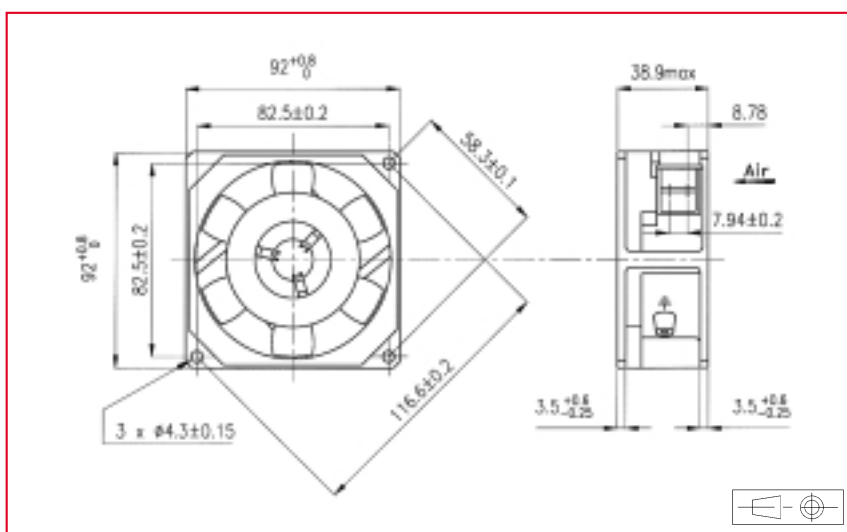
Life expectancy

L-10 LIFE AT 40°C:

80 000 hours (ball bearings)

50 000 hours (sleeve bearings)

For more details, see page 14



AC Motor

Electrical protection: impedance protected

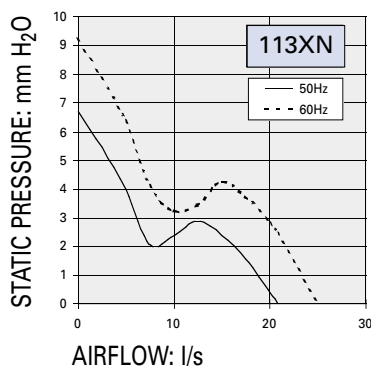
Housing material: Zamak

Impeller material: Plastic UL 94 VO

Weight: 0,615 kg

Available with:

- flying leads



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
113XN0181000	208-240	21	36	2850	50	1		12	85	160	X			X	- 10	70
		25	41	3300	60	1		11	75	140	X			X	- 10	70
113XN0182000	115	21	36	2850	50	1		10	140	270	X			X	- 10	70
		25	41	3300	60	1		9	115	220	X			X	- 10	70
113XN2181000	208-240	21	36	2850	50	1		12	85	160		X		X	- 10	55
		25	41	3300	60	1		11	75	140		X		X	- 10	55
113XN2182000	115	21	36	2850	50	1		10	140	270		X		X	- 10	55
		25	41	3300	60	1		9	115	220		X		X	- 10	55

Additional versions:

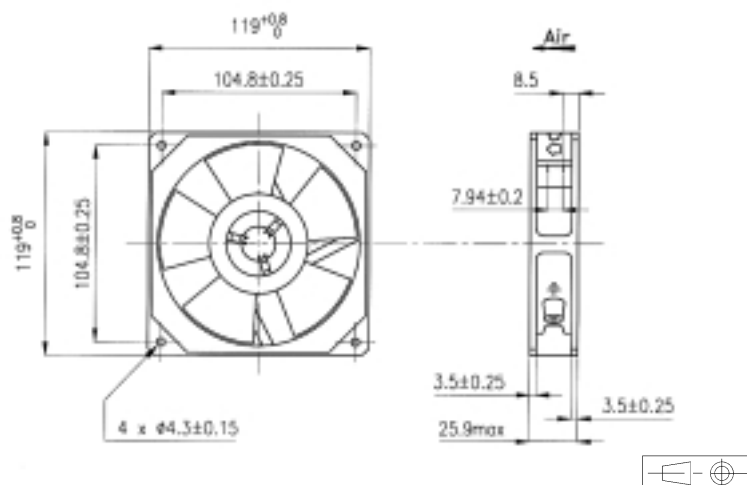
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 148, 150, 151, 153, 160 and 161

120 x 120 x 25 mm

AC Axial Fans



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

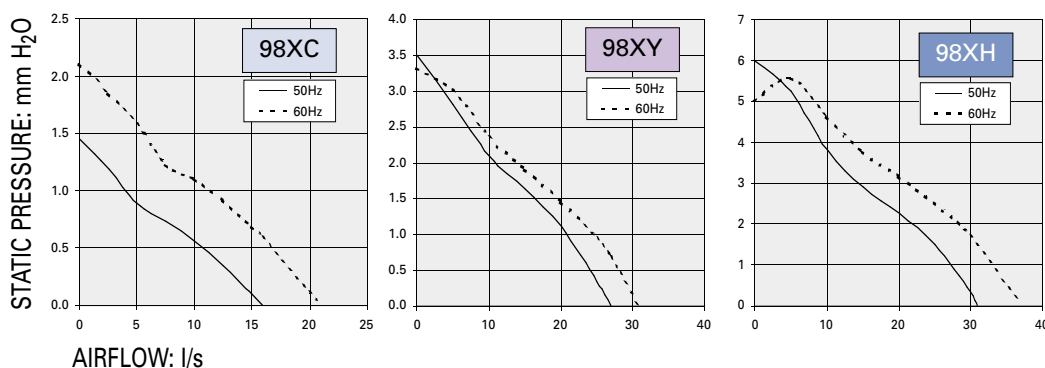
L-10 LIFE AT 40°C:
80 000 hours (ball bearings)
50 000 hours (sleeve bearings)
For more details, see page 14

AC Motor

Electrical protection: impedance protected
Housing material: Zamak
Impeller material: Plastic UL 94 VO
Weight: 0,465 kg

Available with:

- speed sensor



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
98XC0181000	208-240	16	32	1300	50	1		14	80	90	X			X	- 10	70
		21	35	1700	60	1		12	70	75	X			X	- 10	70
98XC0182000	115	16	32	1300	50	1		12	130	150	X			X	- 10	70
		21	35	1700	60	1		10	110	130	X			X	- 10	70
98XY0181000	208-240	27	37	2100	50	1		12	65	80	X			X	- 10	70
		31	38	2400	60	1		10	55	65	X			X	- 10	70
98XY0182000	115	27	36	2100	50	1		10	120	140	X			X	- 10	70
		31	38	2400	60	1		9	100	120	X			X	- 10	70
98XH0181000	208-240	31	41	2550	50	1		15	80	100	X			X	- 10	70
		37	44	3000	60	1		13	65	90	X			X	- 10	70
98XH0182000	115	31	41	2555	50	1		13	135	200	X			X	- 10	70
		37	44	3000	60	1		11	110	180	X			X	- 10	70

Additional versions:

Other speeds - salt spray protected - shock and vibration protected - marine specifications - wide temperature range - sleeve bearings

Accessories:

See pages: 148, 150, 151, 152, 153, 157, 160 and 161

120 x 120 x 38 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

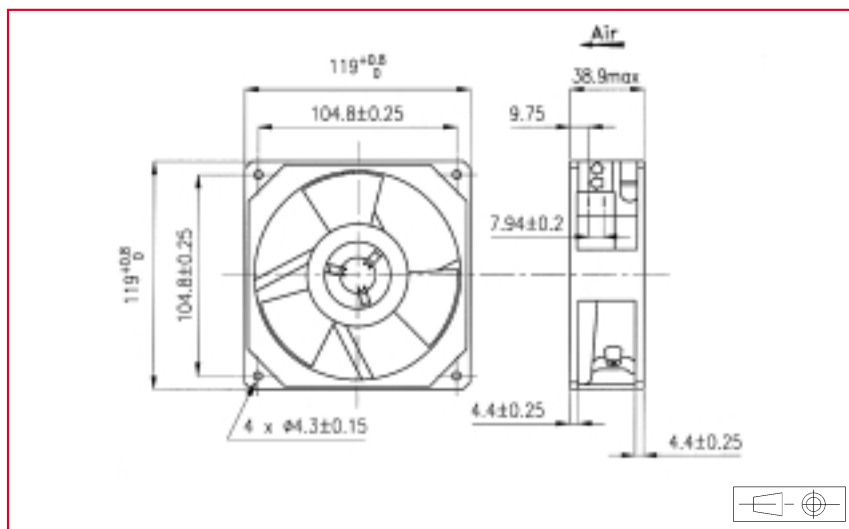
L-10 LIFE AT 40°C:
50 000 hours
For more details, see page 14

AC Motor

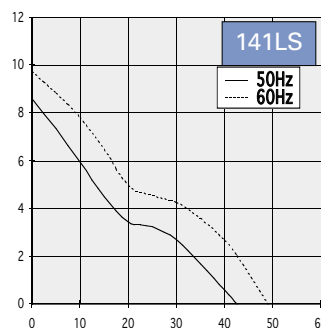
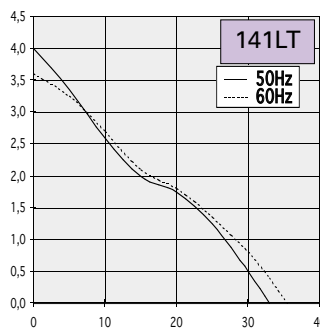
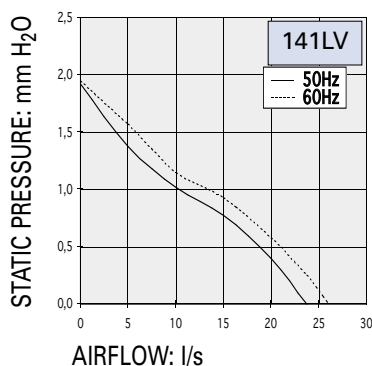
Electrical protection: impedance protected
Housing material: Zamak
Impeller material: Plastic UL 94 V0
Weight: 0,725 kg

Available with:

- flying leads
- speed sensor



AC
Axial Fans



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
141LV2181000	208-240	23,5	27,5	1600	50	1		10	60	70		X		X	- 10	55
		26	28	1700	60	1		9	55	65		X		X	- 10	55
141LV2182000	115	23,5	27,5	1600	50	1		9	110	125		X		X	- 10	55
		26	28	1700	60	1		8	100	110		X		X	- 10	55
141LT2181000	208-240	33	35	2200	50	1		12	75	90		X		X	- 10	55
		35	38,5	2400	60	1		10	65	75		X		X	- 10	55
141LT2182000	115	33	35	2200	50	1		10	125	160		X		X	- 10	55
		35	38,5	2400	60	1		9	110	140		X		X	- 10	55
141LS2181000	208-240	42	43	2800	50	1		14	95	150		X		X	- 10	55
		48	47	3200	60	1		12	80	130		X		X	- 10	55
141LS2182000	115	42	43	2800	50	1		13	160	275		X		X	- 10	55
		48	47	3200	60	1		12	140	240		X		X	- 10	55

Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

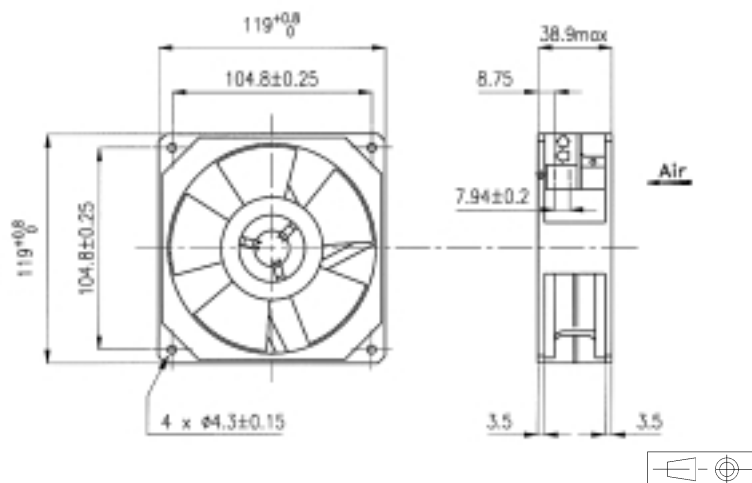
Accessories:

See pages: 148, 150, 151, 152, 153, 157, 160 and 161

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

120 x 120 x 38 mm

AC Axial Fans



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

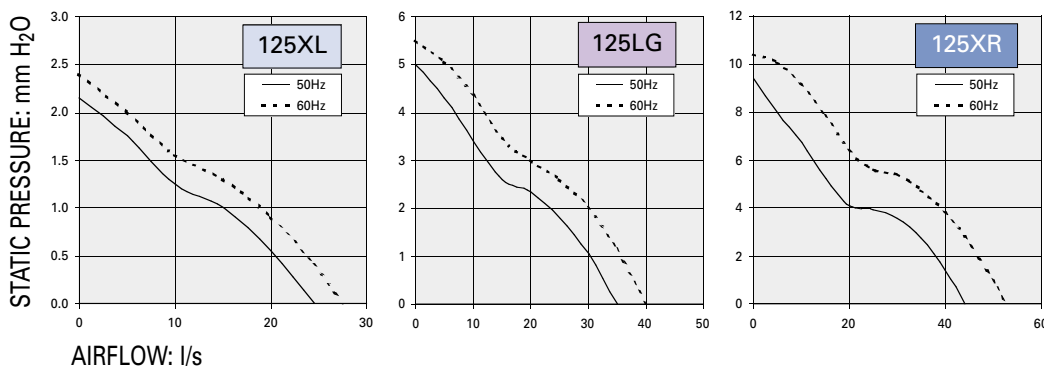
L-10 LIFE AT 40°C:
80 000 hours (ball bearings)
50 000 hours (sleeve bearings)
For more details, see page 14

AC Motor

Electrical protection: impedance protected
Housing material: Zamak
Impeller material: Plastic UL 94 V0
Weight: 0,725 kg

Available with:

- flying leads
- speed sensor



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
125XL0181000	208-240	25	30	1600	50	1		12	75	90	X			X	- 10	70
		27	32	1750	60	1		10	65	75	X			X	- 10	70
125XL2181000	208-240	25	30	1600	50	1		12	75	90		X		X	- 10	55
		27	32	1750	60	1		10	65	75		X		X	- 10	55
125LG0181000	208-240	35	38	2200	50	1		18	110	140	X			X	- 10	70
		40	40,5	2500	60	1		15	90	120	X			X	- 10	70
125LG2181000	208-240	35	36	2200	50	1		18	110	140		X		X	- 10	55
		40	39,5	2500	60	1		15	90	120		X		X	- 10	55
125XR0181000	208-240	44	44	2800	50	1		18	125	170	X			X	- 10	70
		53	48	3200	60	1		15	105	150	X			X	- 10	70
125XR2181000	208-240	44	43	2750	50	1		18	125	170		X		X	- 10	55
		51,5	47,5	3250	60	1		15	105	150		X		X	- 10	55

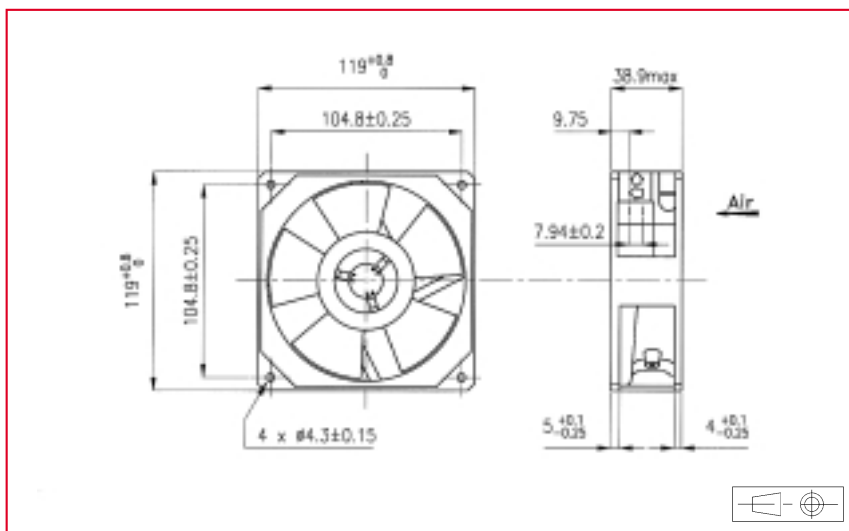
Additional versions: 115 V - 50/60 Hz - dual voltage 115 V - 230 V

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

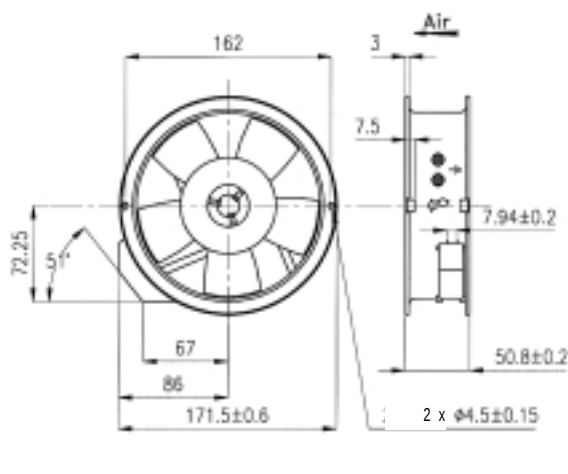
See pages: 148, 150, 151, 152, 153, 157, 160 and 161

AC Axial Fans



ø 172 x 50 mm

AC
Axial Fans



Approvals

See selection guide pages 15 to 26

AC Motor

Electrical protection: thermally protected
Housing material: Aluminium
Impeller material: Plastic UL 94 V0
Weight: 0,880 kg

Available with:

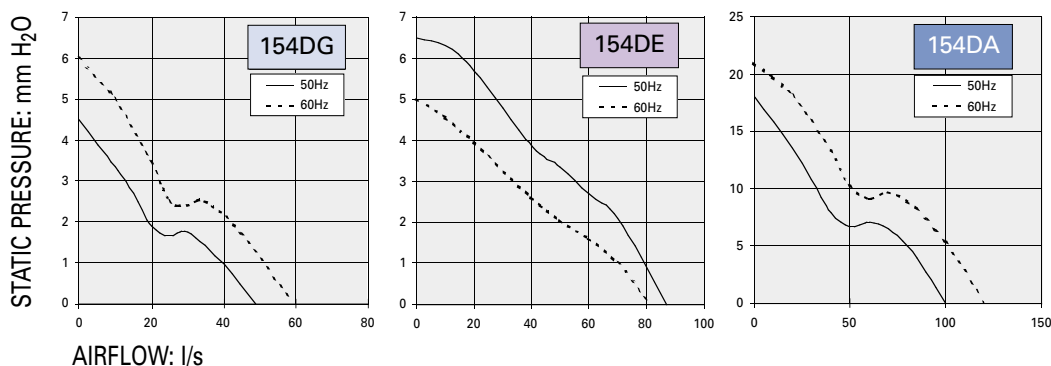
- flying leads
- speed sensor

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
154DG0281000	208-240	49	29,5	1400	50	1	0,32	13	60	80	X			X	- 10	70
		59	35	1700	60	1	0,32	14	60	80	X			X	- 10	70
154DG0282000	115	49	29,5	1400	50	1	1	11	100	140	X			X	- 10	70
		59	35	1700	60	1	1	11	90	140	X			X	- 10	70
154DE0281000	208-240	87	47	2500	50	1	0,47	12	60	75	X			X	- 10	70
		81	45	2300	60	1	0,47	16	75	80	X			X	- 10	70
154DE0282000	115	87	47	2500	50	1	1,69	11	105	140	X			X	- 10	70
		81	45	2300	60	1	1,69	15	130	150	X			X	- 10	70
154DA0281000	208-240	100	50,5	2850	50	1	2,2	33	200	390	X			X	- 10	55
		120	55,5	3400	60	1	2,2	30	160	370	X			X	- 10	55
154DA0282000	115	100	50,5	2850	50	1	2,7	30	310	610	X			X	- 10	70
		120	55,5	3400	60	1	2,7	29	260	590	X			X	- 10	70

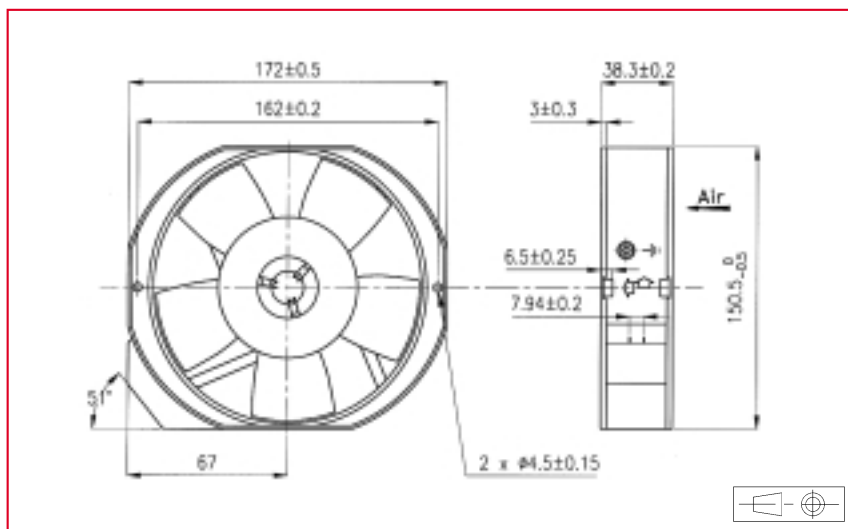
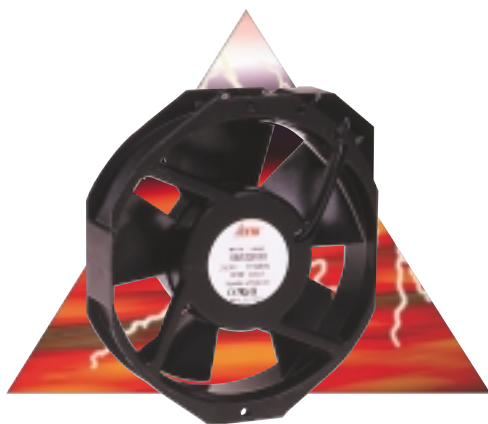
Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 153, 157, 160 and 161

172 x 150 x 38 mm



AC
Axial Fans

Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14

AC Motor

Electrical protection: thermally protected

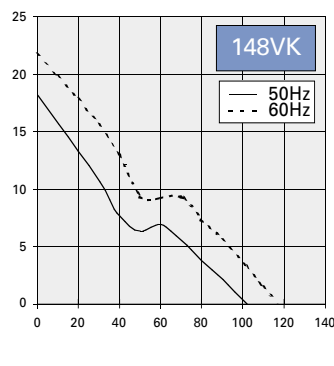
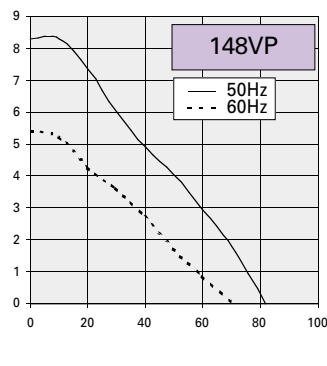
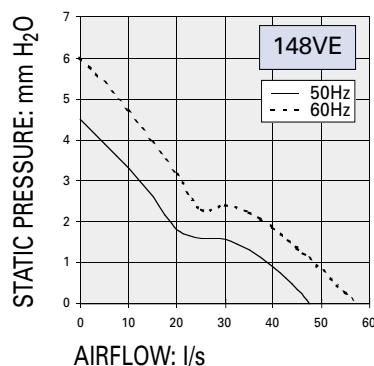
Housing material: Zamak

Impeller material: Plastic UL 94 VO

Weight: 1,1 kg

Available with:

- flying leads
- speed sensor



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system		Connection type		Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		μF	W	mA	mA	Ball	Sleeve	Leads	Terminals	°C	°C
148VE0281000	208-240	49	36	1400	50	1	0,32	13	60	80	X			X	- 10	70
		58	39	1650	60	1	0,32	14	60	80	X			X	- 10	70
148VE0282000	115	49	36	1400	50	1	1	11	100	140	X			X	- 10	70
148VP0282000	115	58	39	1650	60	1	1	11	90	140	X			X	- 10	70
		81	50	2350	50	1	2,2	14	120	170	X			X	- 10	70
		70	45,5	2100	60	1	2,2	18	160	180	X			X	- 10	70
148VP0281000	208-240	82	49	2400	50	1	0,69	16	70	100	X			X	- 10	70
		70	44	2000	60	1	0,69	22	100	105	X			X	- 10	70
148VK0281000	208-240	100	53	2800	50	1	2,2	35	200	390	X			X	- 10	55
148VK0282000	115	117	57	3200	60	1	2,2	33	170	370	X			X	- 10	55
		100	54	2850	50	1	2,7	32	300	610	X			X	- 10	70
		119	57	3300	60	1	2,7	32	270	590	X			X	- 10	70

Additional versions:

Other speeds - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 150, 151, 153, 157, 160 and 161

400 Hz Axial Fans

TOLERANCES (Indicative values)

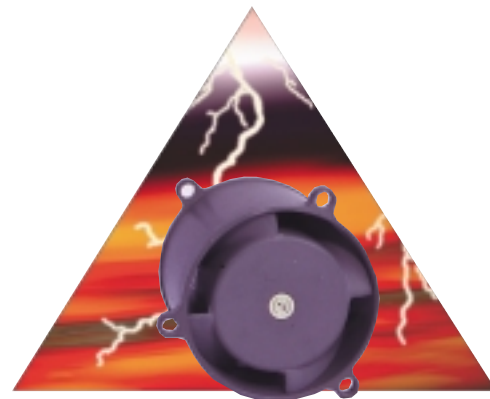
Speed / airflow	+/- 4 %
Static pressure	+/- 8 %
Input power	+/- 10 %
Curent	+/- 10 %
Voltage	+/- 5 %

EXAMPLE OF CODIFICATION

	125	XT	01	60	XXX
Series code					
Speed					
Mechanical (flange position)					
Voltage: 60 = 200 V 400 Hz; 62 = 115 V 400 Hz					

400 Hz
Axial Fans

400 Hz Axial Fans



Connection: flying leads

Impeller material: Aluminium

Weight: 0,140 kg

Bearing system: ball bearings

Approvals

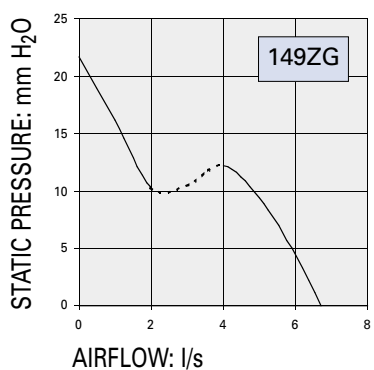
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

35 000 hours

For more details, see page 14



Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Ø 66,6 x 38 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

35 000 hours

For more details, see page 14

400 Hz Motor

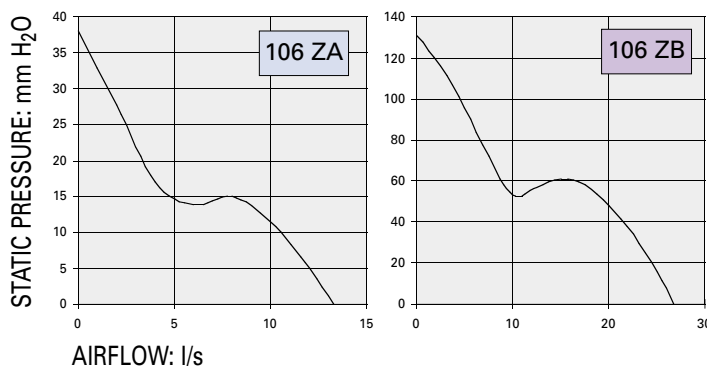
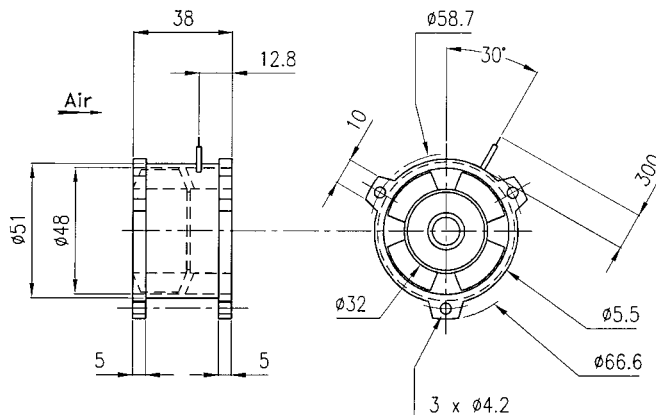
Housing material: Aluminium

Impeller material: Aluminium

Weight: 0,170 kg

Bearing system: ball bearings

Connection: flying leads



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Phases	Capacitor	Input power	Nominal current	Starting current	Operating temperature	
	V	l/s	dB(A)	RPM		µF	W	mA	mA	Min. °C	Max. °C
106ZA0560C13	200	13	51	11500	3		15	95	205	- 10	70
	200	13	51	11500	1	0,15	15	105	205	- 10	70
106ZA0562C13	115	13	51	11500	3		15	160	350	- 10	70
	115	13	51	11500	1	0,47	15	180	350	- 10	70
106ZB0560C13	200	27	72	22700	3		42	195	720	- 10	70
	200	27	72	22700	1	0,32	43	215	455	- 10	70
106ZB0562C13	115	27	72	22700	3		42	335	1250	- 10	70

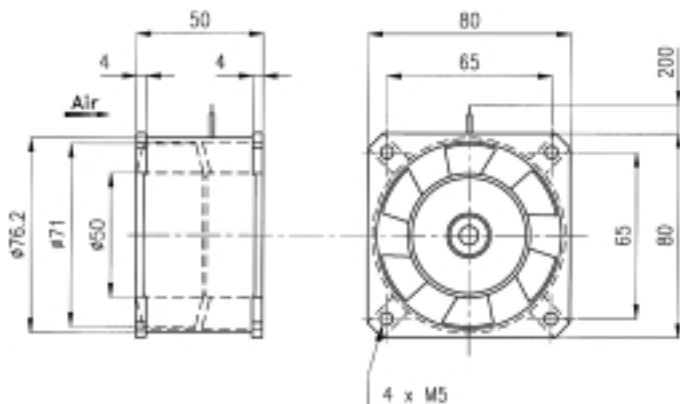
Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See page: 162

80 x 80 x 50 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

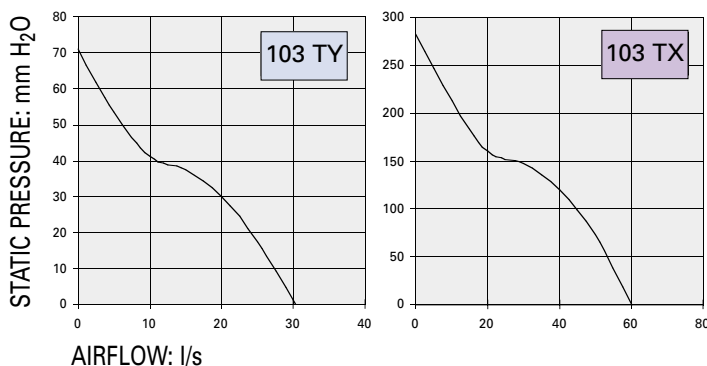
Life expectancy

L-10 LIFE AT 40°C:
35 000 hours
For more details, see page 14

400 Hz Motor

Housing material: Aluminium
Impeller material: Aluminium
Weight: 0,480 kg
Bearing system: ball bearings

Connection : flying leads



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Phases	Capacitor	Input power	Nominal current	Starting current	Operating temperature	
	V									Min. °C	Max. °C
103TY0560C13	200	30	65	11400	3	0,22	19	95	270	- 10	70
	200	30	65	11400	1		21	105	230	- 10	70
103TY0562C13	115	30	65	11400	3	0,69	19	160	460	- 10	70
	115	30	65	11400	1		21	180	390	- 10	70
103TX0560C13	200	60	80	23000	3	1	110	400	1900	- 10	70
	200	60	80	23000	1		120	580	1600	- 10	70
103TX0562C13	115	60	80	23000	3	3,2	110	690	3300	- 10	70
	115	60	80	23000	1		120	1050	2800	- 10	70

Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See page: 162

400 Hz Axial Fans



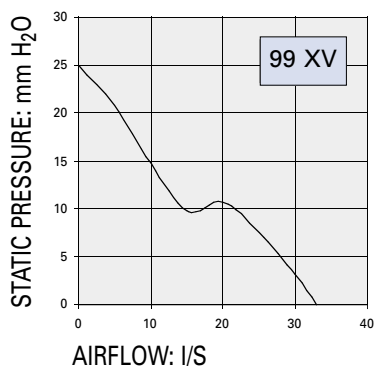
See selection guide pages 15 to 26
GAMT 1 listed

L-10 LIFE AT 40°C:
35 000 hours
For more details, see page 14

Housing material: Zamak
Impeller material: Plastic UL 94 VO
Weight: 0,390 kg
Bearing system: ball bearings

Connection: flying leads

- speed sensor

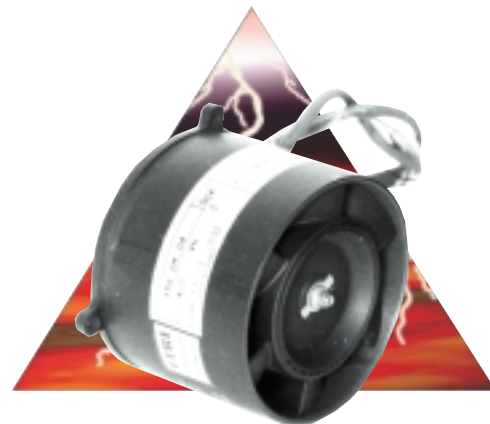


Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

See pages: 148, 150, 151, 153, 161 and 162

400 Hz Axial Fans



See selection guide pages 15 to 26

Connection: flying leads

Impeller material: Aluminium

Weight: 0,610 kg

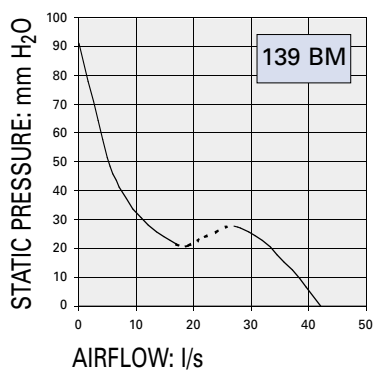
Bearing system: ball bearings

L-10 LIFE AT 40°C:

35 000 hours

For more det

For more details, see page 14



Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

400 Hz Axial Fans



See selection guide pages 15 to 26
GAMT 1 listed

L-10 LIFE AT 40°C:

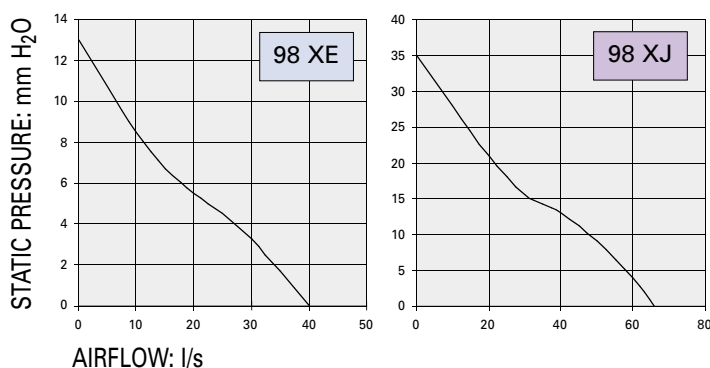
For more details, see page 14

Connection: flying leads

Impeller material: Plastic UL 94 VO

Weight: 0,500 kg

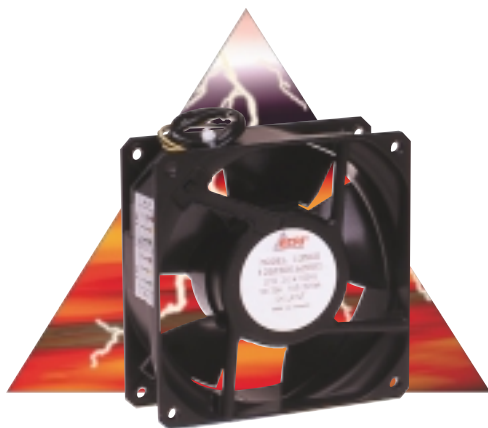
Bearing system: ball bearings

[illegible]

Accessories:

See pages: 148, 150, 151, 152, 153, 157, 160 and 161

120 x 120 x 38 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

35 000 hours

For more details, see page 14

400 Hz Motor

Housing material: Aluminium

Impeller material: Plastic UL 94 VO

Weight: 0,530 kg

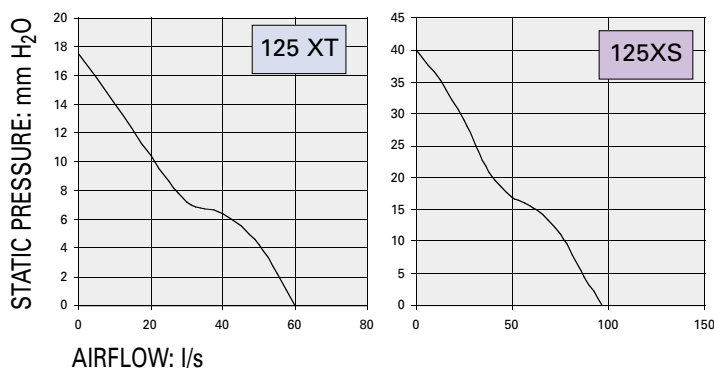
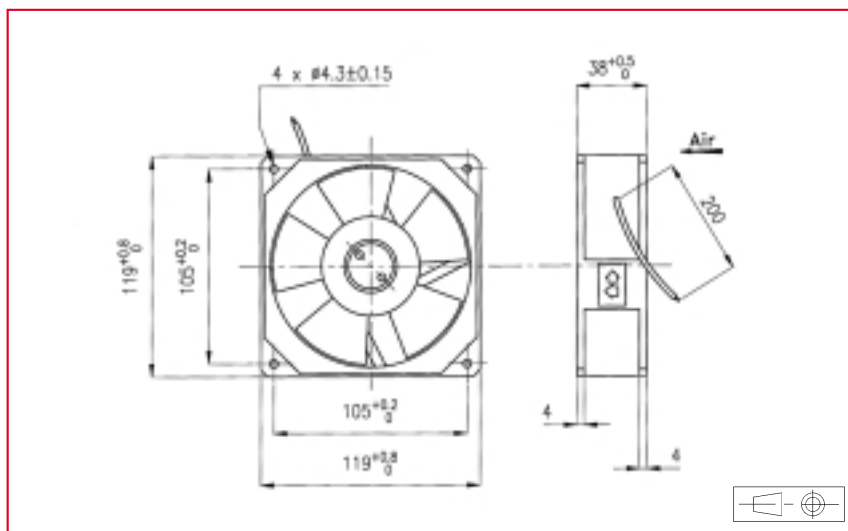
Bearing system: ball bearings

Connection: flying leads

Available with:

- speed sensor
- impedance protection

400 Hz
AXIAL FANS



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Phases	Capacitor	Input power	Nominal current	Starting current	Operating temperature	
	V	l/s	dB(A)	RPM		µF	W	mA	mA	Min. °C	Max. °C
125XT0160101	200	60	50	3750	1	0,05	19	100	120	- 10	70
125XT0160301	200	60	50	3600	3		15	75	115	- 10	70
125XT0162101	115	60	50	3750	1	0,15	19	170	200	- 10	70
125XT0162301	115	60	50	3600	3		15	140	220	- 10	70
125XT0180101	200	60	50	3750	1	0,05	19	100	120	- 10	70
125XT0182101	115	60	50	3750	1	0,15	19	170	200	- 10	70
125XS0160001	200	94	60	5700	3		32	240	650	- 10	70
	200	94	60	5700	1	0,47	35	210	500	- 10	70
125XS0162001	115	94	60	5700	3		32	415	1150	- 10	70
	115	94	60	5700	1	1,47	35	365	870	- 10	70

Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 148, 150, 151, 152, 153, 157, 160 and 161

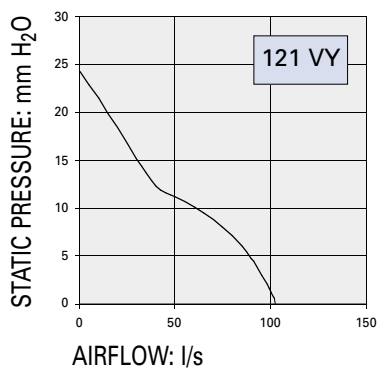
400 Hz Axial Fans



Housing material: Aluminium
Impeller material: Plastic UL 94 VO
Weight: 0,775 kg
Bearing system: ball bearings

See selection guide pages 15 to 26
GAMT 1 listed

L-10 LIFE AT 40°C:
35 000 hours
For more details, see page 14

[illegible]

See pages: 150, 151, 153, 157, 160 and 161

Ø 180 x 104 mm



Approvals
See selection guide pages 15 to 20
GAMT 1 listed

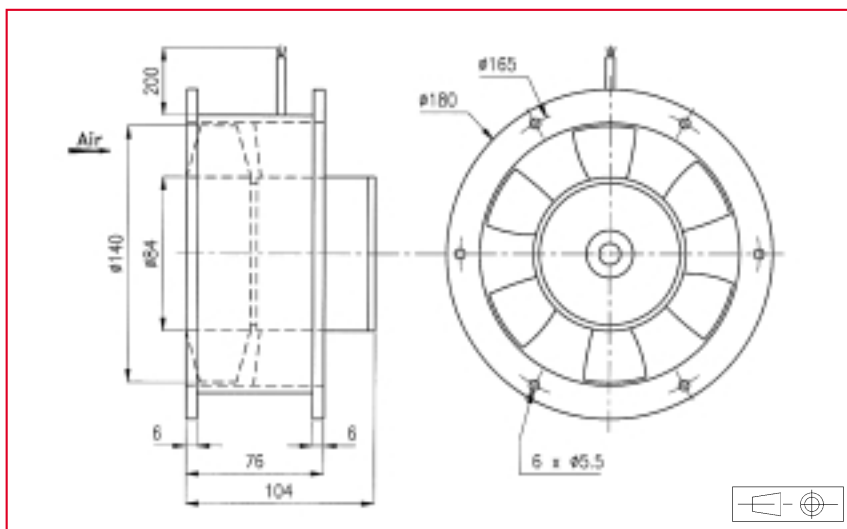
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy
L-10 LIFE AT 40°C:
35 000 hours

L-10 LIFE AT 40°C:

35 000 hours

For more details, see page 14



400 Hz Motor
Housing material: Aluminium
Impeller material: Aluminium
Weight: 2,6 kg
Bearing system: ball bearings

Housing material: Aluminium

Impeller material: Aluminium

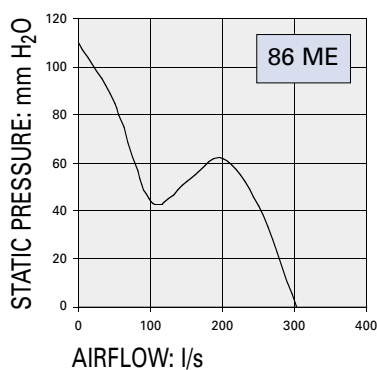
Weight: 2,6 kg

Bearing system: ball bearings

Connection: flying leads

Available with:

- safety switch

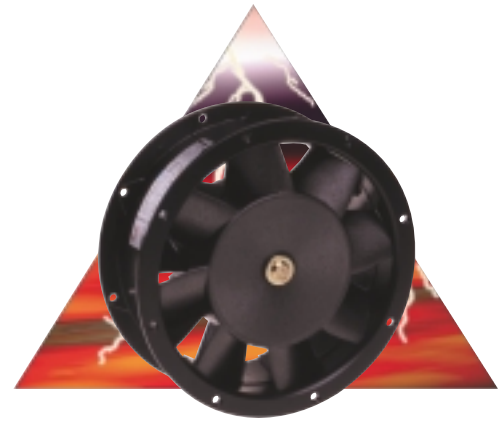
[illegible]

Additional versions:
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:
See pages: 154, 156, 157 and 158

See pages: 154, 156, 157 and 158



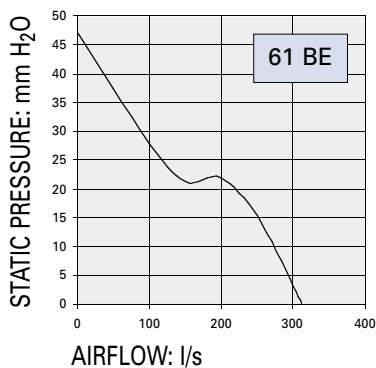
See selection guide pages 15 to 26
GAMT 1 listed

L-10 LIFE AT 40°C:
35 000 hours
For more details, see page 14

Connection: flying leads

Housing material: Aluminium
Impeller material: Aluminium
Weight: 4,7 kg
Bearing system: ball bearings

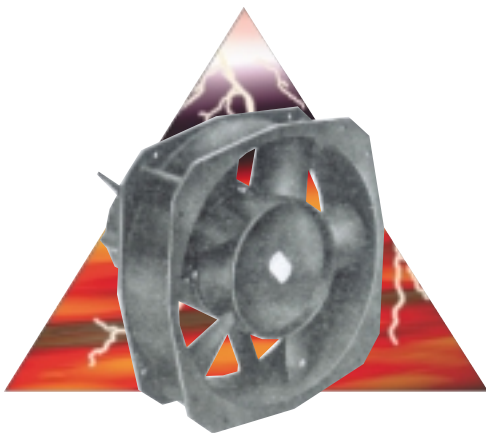
- safety switch

[illegible]

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

See pages: 154, 156, 158 and 162

ø 320 x 214 mm



Approvals

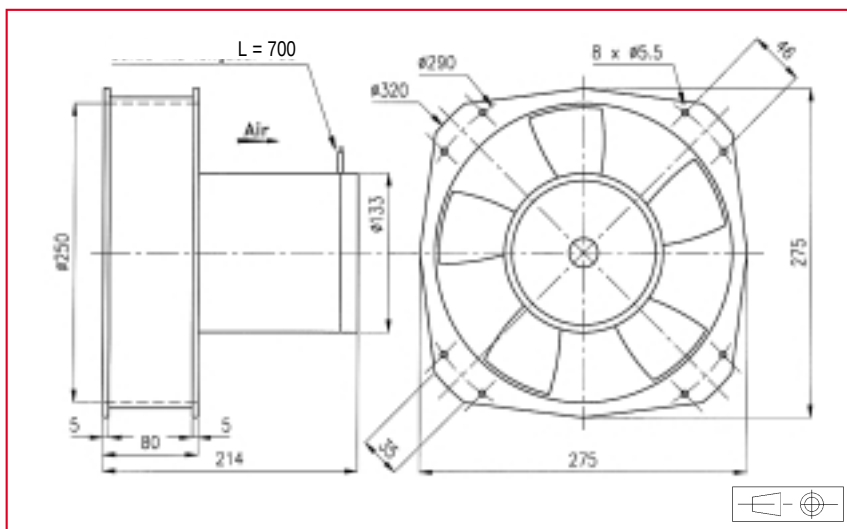
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

35 000 hours

For more details, see page 14



400 Hz Motor

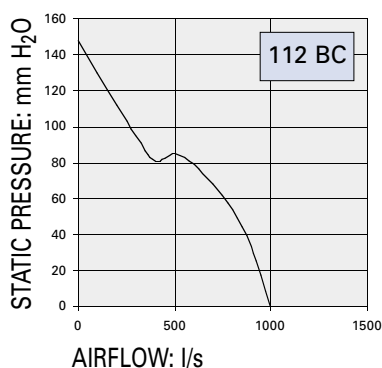
Housing material: Aluminium

Impeller material: Aluminium

Weight: 9,5 kg

Bearing system: ball bearings

Connection: flying leads

[illegible]

Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 156 and 158

TOLERANCES (Indicative values)

AC Fans

Speed / airflow	+/- 4 %
Static pressure	+/- 8 %
Input power	+/- 10 %
Curent	+/- 10 %
Voltage	+/- 10 %

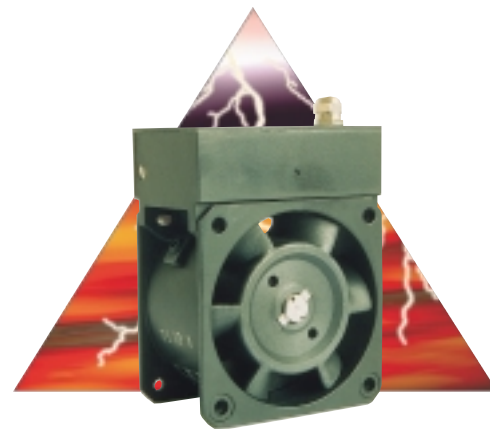
DC Fans

Speed / airflow	+/- 6 %
Static pressure	+/- 12 %
Input power	+/- 15 %
Voltage	See voltage range on each data sheet

EXAMPLE OF CODIFICATION

	62	GP	01	6D	XXX
Series code					
Speed					
Mechanical					
Voltage: 6D = 220 - 380 V; 61 = 220 V; 62 = 115 V; 6Y = 440 V					

High Performance



See selection guide pages 15 to 26
GAMT 1 listed

L-10 LIFE AT 40°C:

For more details, see page 14

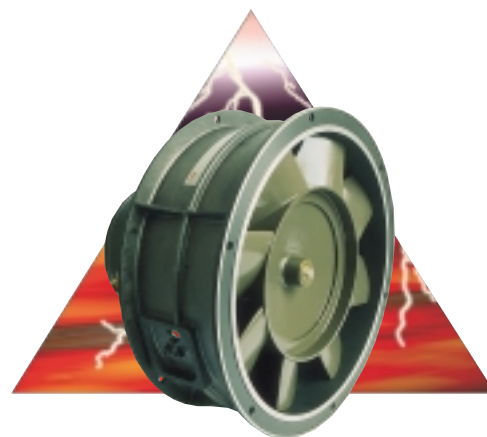
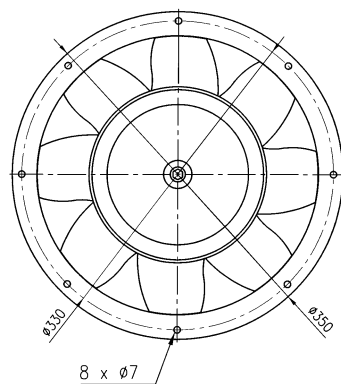
Housing material: Aluminium
Impeller material: Aluminium
Weight: 1 kg
Bearing system: ball bearings



Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

High Performance



See selection guide pages 15 to 26
GAMT 1 listed

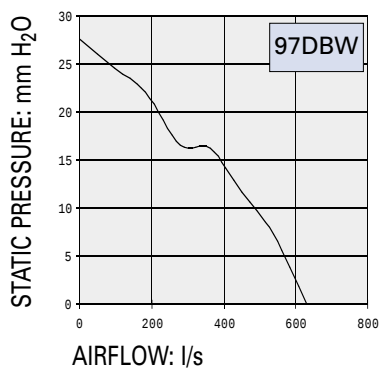
L-10 LIFE AT 40°C:
25 000 hours
For more details, see page 14

Connection: terminal block

Impeller material: Aluminium

Weight: 14 kg

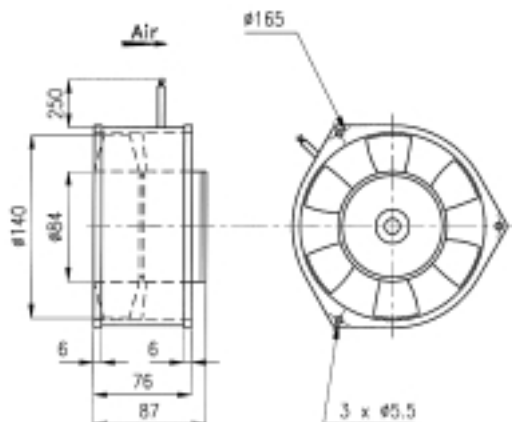
Bearing system: ball bearings



Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

See pages: 154, 156 and 158

167 x 155 x 87 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

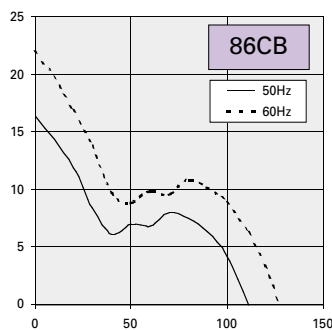
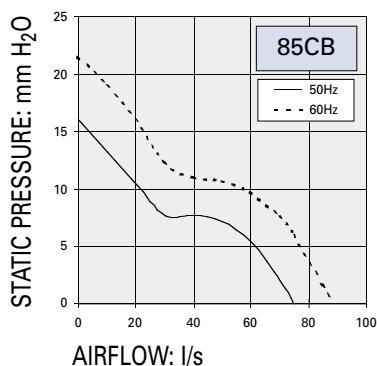
L-10 LIFE AT 40°C:
25 000 hours
For more details, see page 14

AC Motor

Housing material: Aluminium
Impeller material: Plastic
Weight: 1,7 kg
Bearing system: ball bearings

Available with:

- safety switch
- aluminium impeller



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type	Operating temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Leads	Terminals	°C	°C
85CB026DC13	220	75	57	2850	50	3		20	110	320	X		- 10	70
	380	75	57	2850	50	3		20	65	185	X		- 10	70
	220	88	61	3300	60	3		23	95	300	X		- 10	70
	380	88	61	3300	60	3		23	55	175	X		- 10	70
	220	75	57	2850	50	1	1,47	20	110	260	X		- 10	70
	380	75	57	2850	50	1	0,47	20	65	150	X		- 10	70
	220	88	61	3300	60	1	1,47	24	115	250	X		- 10	70
	380	88	61	3300	60	1	0,47	24	70	145	X		- 10	70
86CB026DC13	220	111	56	2800	50	3		35	170	470	X		- 10	70
	380	111	56	2800	50	3		35	100	275	X		- 10	70
	220	127	60	3200	60	3		41	150	440	X		- 10	70
	380	127	60	3200	60	3		41	90	255	X		- 10	70
	220	111	56	2800	50	1	2,2	34	180	400	X		- 10	70
	380	111	56	2800	50	1	0,69	34	105	235	X		- 10	70
	220	127	60	3200	60	1	2,2	42	200	375	X		- 10	70
	380	127	60	3200	60	1	0,69	42	115	220	X		- 10	70

Additional versions:

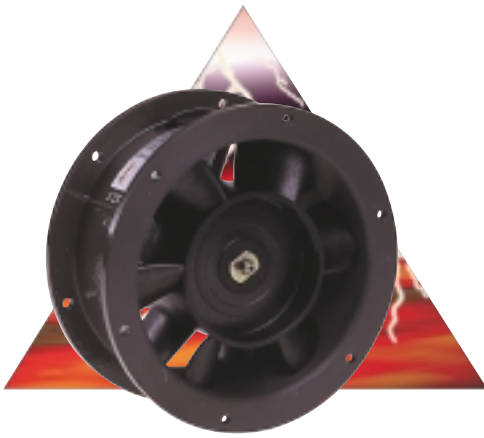
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 154, 156, 157, 158 and 162

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

ø 180 x 87 mm



Approvals

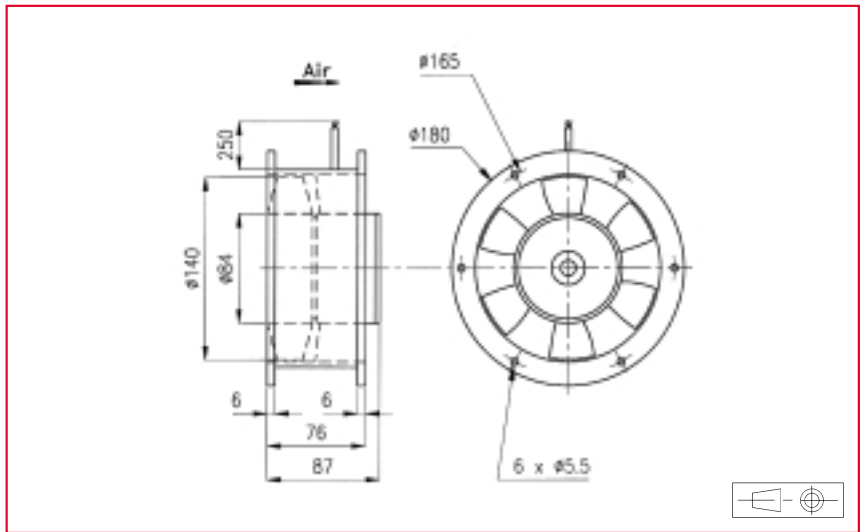
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor

Housing material: Aluminium

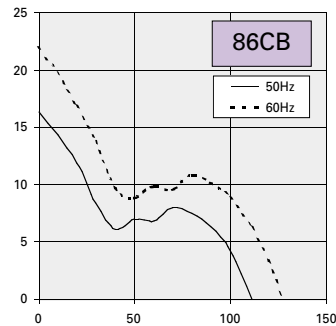
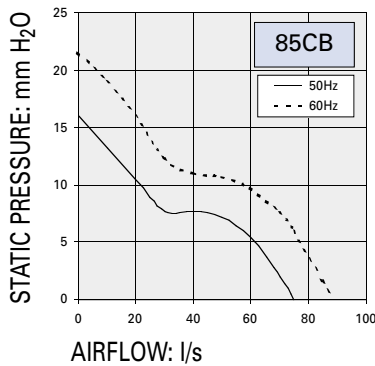
Impeller material: Plastic

Weight: 2,1 kg

Bearing system: ball bearings

Available with:

- safety switch
- aluminium impeller



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type	Opearting temperature
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Leads	Terminals	°C °C
85CB016DC13	220	75	57	2850	50	3		20	110	320	X		- 10 70
	380	75	57	2850	50	3		20	65	185	X		- 10 70
	220	88	61	3300	60	3		23	95	300	X		- 10 70
	380	88	61	3300	60	3		23	55	175	X		- 10 70
	220	75	57	2850	50	1	1,47	20	110	260	X		- 10 70
	380	75	57	2850	50	1	0,47	20	65	150	X		- 10 70
	220	88	61	3300	60	1	1,47	24	115	250	X		- 10 70
	380	88	61	3300	60	1	0,47	24	70	145	X		- 10 70
86CB016DC13	220	111	56	2800	50	3		35	170	470	X		- 10 70
	380	111	56	2800	50	3		35	100	275	X		- 10 70
	220	127	60	3200	60	3		41	150	440	X		- 10 70
	380	127	60	3200	60	3		41	90	255	X		- 10 70
	220	111	56	2800	50	1	2,2	34	180	400	X		- 10 70
	380	111	56	2800	50	1	0,69	34	105	235	X		- 10 70
	220	127	60	3200	60	1	2,2	42	200	375	X		- 10 70
	380	127	60	3200	60	1	0,69	42	115	220	X		- 10 70

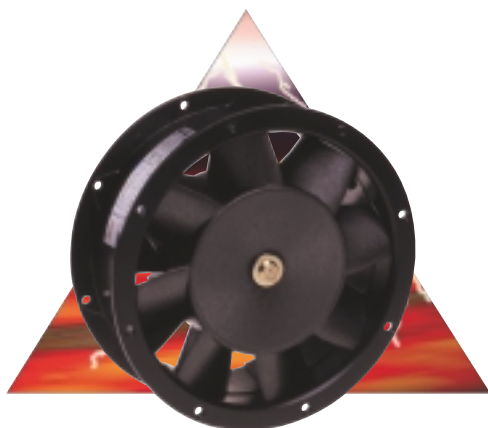
Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 154, 156, 157, 158 and 162

ø 239,5 x 85 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14

AC Motor

Housing material: Aluminium

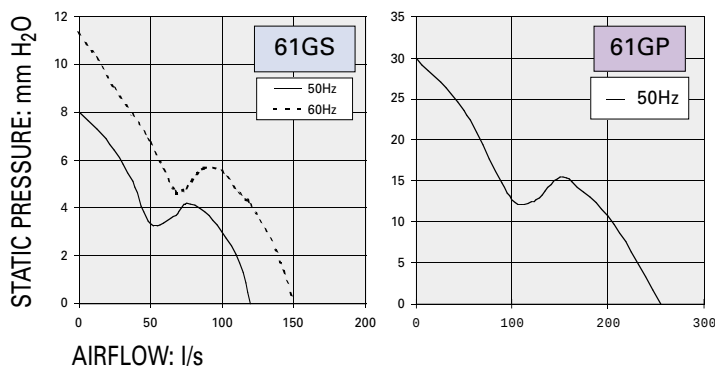
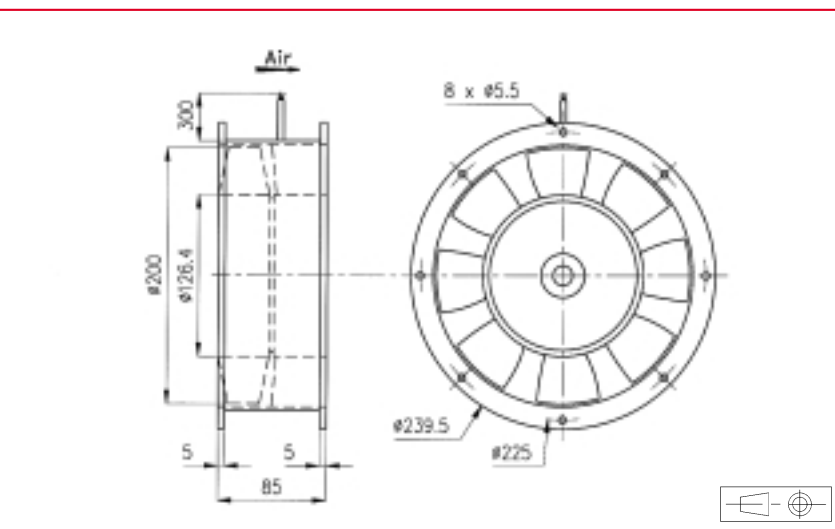
Impeller material: Plastic

Weight: 4,2 kg

Bearing system: ball bearings

Available with:

- safety switch
- terminal block
- aluminium impeller



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type	Operating temperature
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Leads	Terminals	°C °C
61GS016DC13	220	126	49	1450	50	3		18	135	440	X		- 10 70
	380	126	49	1450	50	3		18	50	255	X		- 10 70
	220	148	52	1700	60	3		20	115	385	X		- 10 70
	380	148	52	1700	60	3		20	70	210	X		- 10 70
	220	126	49	1450	50	1	1,47	18	130	360	X		- 10 70
	380	126	49	1450	50	1	0,47	18	75	225	X		- 10 70
	220	148	52	1700	60	1	1,47	21	110	310	X		- 10 70
	380	148	52	1700	60	1	0,47	21	65	180	X		- 10 70
61GP016DC13	220	255	65	2800	50	3		64	265	1300	X		- 10 70
	380	255	65	2800	50	3		64	155	750	X		- 10 70
	220	255	65	2800	50	1	4,7	68	325	1100	X		- 10 70
	380	255	65	2800	50	1	1,47	68	190	640	X		- 10 70

Additional versions:

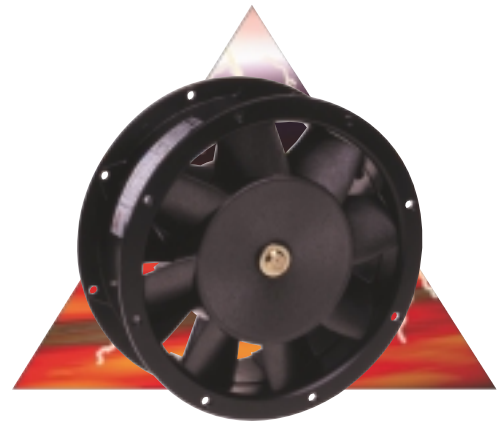
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 154, 156, 158 and 162

High
Performance

High Performance

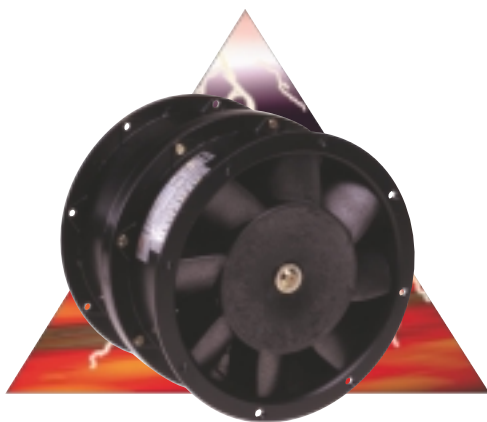


For more details, see page 14



See pages: 154, 156, 158 and 162

ø 239,5 x 181 mm



Approvals

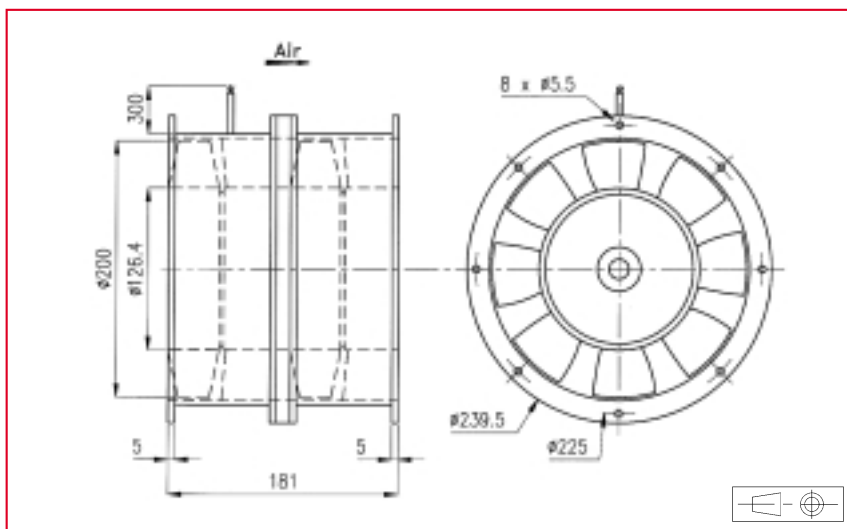
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor

Housing material: Aluminium

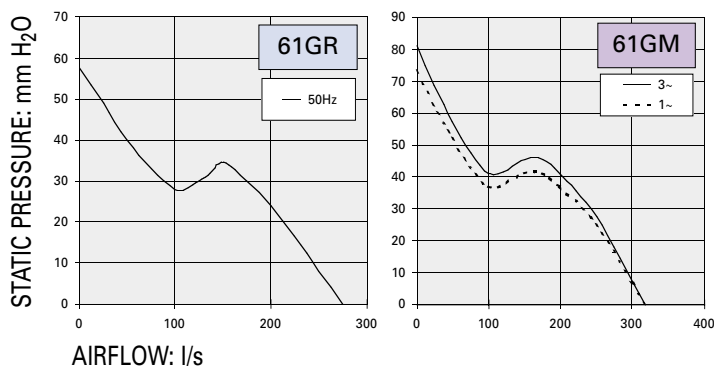
Impeller material: Plastic

Weight: 6,95 kg

Bearing system: ball bearings

Available with:

- safety switch
- terminal block



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type	Operating temperature
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Leads	Terminals	°C °C
61GR116DC13	220	275	72	2750	50	3		100	400	1750	X		- 10 70
	380	275	72	2750	50	3		100	230	1000	X		- 10 70
	220	275	72	2750	50	1	6,9	105	480	1500	X		- 10 70
	380	275	72	2750	50	1	2,2	105	280	900	X		- 10 70
61GM116DC13	220	318	74	3300	60	3		160	690	2600	X		- 10 70
	380	318	74	3300	60	3		160	400	1500	X		- 10 70
	220	318	74	3300	60	1	10	166	780	2100	X		- 10 70
	380	318	74	3300	60	1	3,2	166	450	1200	X		- 10 70

Additional versions:

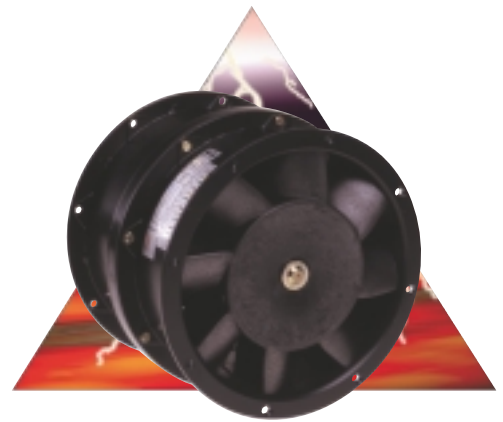
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 154, 156, 158 and 162

High Performance

High Performance

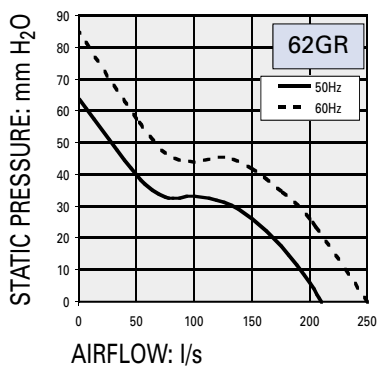


See selection guide pages 15 to 26
GAMT 1 listed

L-10 LIFE AT 40°C:
25 000 hours
For more details, see page 14

Housing material: Aluminium
Impeller material: Aluminium
Weight: 6,95 kg
Bearing system: ball bearings

- safety switch
- terminal block
- plastic impeller

[illegible]

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

See pages: 154, 156, 158 and 162

ø 290 x 76,5 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14

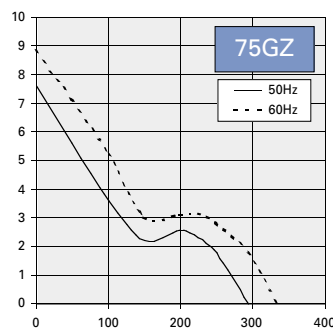
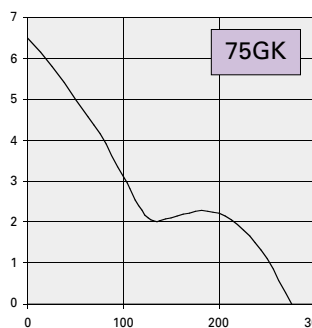
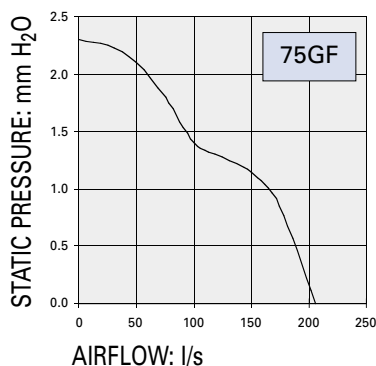
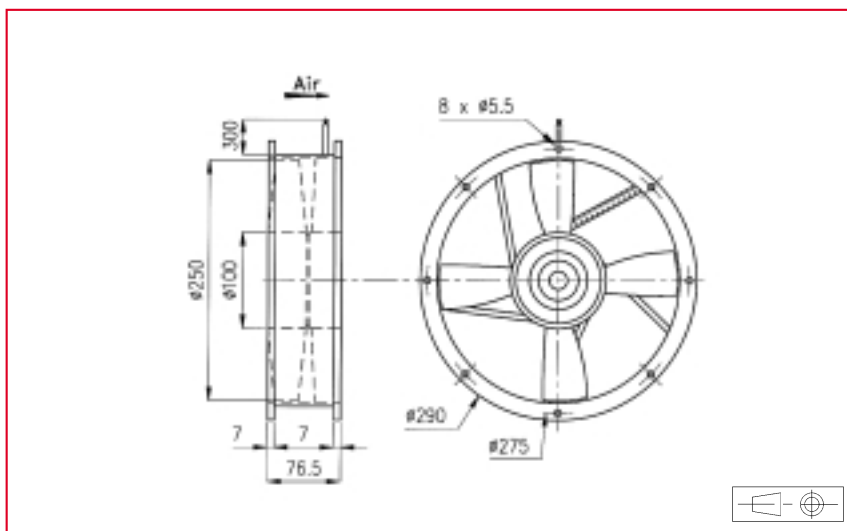
AC Motor

Housing material: Aluminium

Impeller material: Plastic

Weight: 2,9 kg

Bearing system: ball bearings



High
Performance

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type	Opearting temperature
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Leads	Terminals	°C °C
75GF026AC11	110	206	45	1000	50	1		28	370	470	X		- 10 55
	220	206	45	1000	50	1		28	185	235	X		- 10 55
	110	206	45	1000	50	1		28	370	470	X		- 10 55
	220	206	45	1000	50	1		28	185	235	X		- 10 55
75GK026AC11	110	275	54	1350	50	1		41	610	1150	X		- 10 55
	220	275	54	1350	50	1		41	305	575	X		- 10 55
	110	275	54	1350	50	1		41	610	1150	X		- 10 55
	220	275	54	1350	50	1		41	305	575	X		- 10 55
75GZ026DC13	220	290	55	1400	50	3		38	155	385	X		- 10 70
	380	290	55	1400	50	3		38	90	225	X		- 10 70
	220	330	58	1600	60	3		40	145	355	X		- 10 70
	380	330	58	1600	60	3		40	85	210	X		- 10 70
	220	290	55	1400	50	1	2,2	34	165	330	X		- 10 70
	380	290	55	1400	50	1	0,69	34	100	200	X		- 10 70
	220	320	58	1600	60	1	2,2	42	210	320	X		- 10 70
	380	320	58	1600	60	1	0,69	42	125	190	X		- 10 70

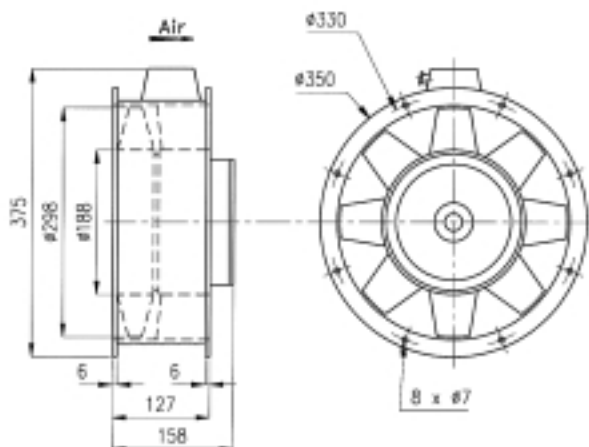
Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 154, 156, 158 and 162

ø 350 x 158 mm



Approvals

See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

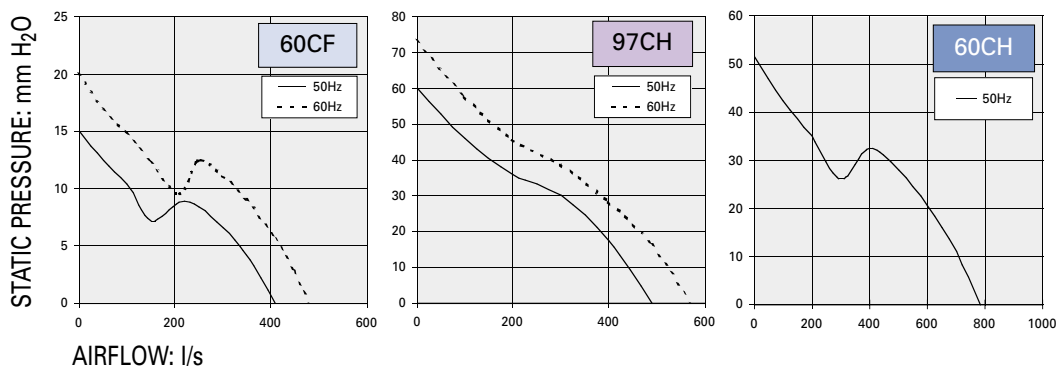
L-10 LIFE AT 40°C:
25 000 hours
For more details, see page 14

AC Motor

Housing material: Aluminium
Impeller material: Aluminium
Weight: 10,5 kg
Bearing system: ball bearings

Series 60: 11 blades
Series 97: 8 blades

Available with:
- safety switch



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type	Operating temperature
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Leads	Terminals	°C °C
60CF016DC13	220	410	61	1450	50	3		64	370	2000		X	- 10 70
	380	410	61	1450	50	3		64	210	1150		X	- 10 70
	220	480	65	1700	60	3		83	330	1800		X	- 10 70
	380	480	65	1700	60	3		83	190	1050		X	- 10 70
	220	410	61	1450	50	1	6,9	67	320	1700		X	- 10 70
	380	410	61	1450	50	1	2,2	67	190	980		X	- 10 70
	220	480	65	1700	60	1	6,9	102	470	1600		X	- 10 70
	380	480	65	1700	60	1	2,2	102	270	930		X	- 10 70
97CH016DC13	220	490	73	2850	50	3		136	490	3300		X	- 10 70
	380	490	73	2850	50	3		136	280	1900		X	- 10 70
	220	570	76	3300	60	3		198	600	2800		X	- 10 70
	380	570	76	3300	60	3		198	350	1500		X	- 10 70
60CH016DC13	220	780	79	2700	50	3		406	1500	6300		X	- 10 70
	380	780	79	2700	50	3		406	870	3600		X	- 10 70
	220	775	79	2700	50	1	20	400	1900	5000		X	- 10 70
	380	775	79	2700	50	1	6,9	400	1100	3000		X	- 10 70

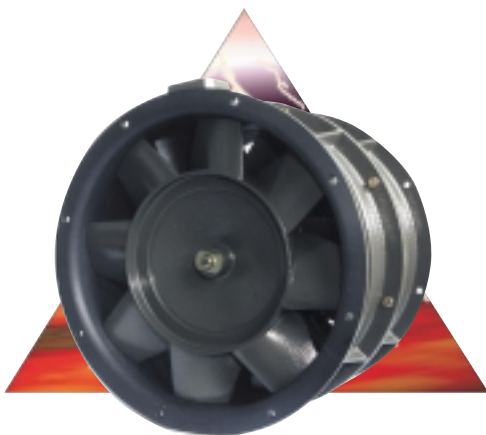
Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 154, 156, 158 and 162

ø 350 x 254 mm



Approvals

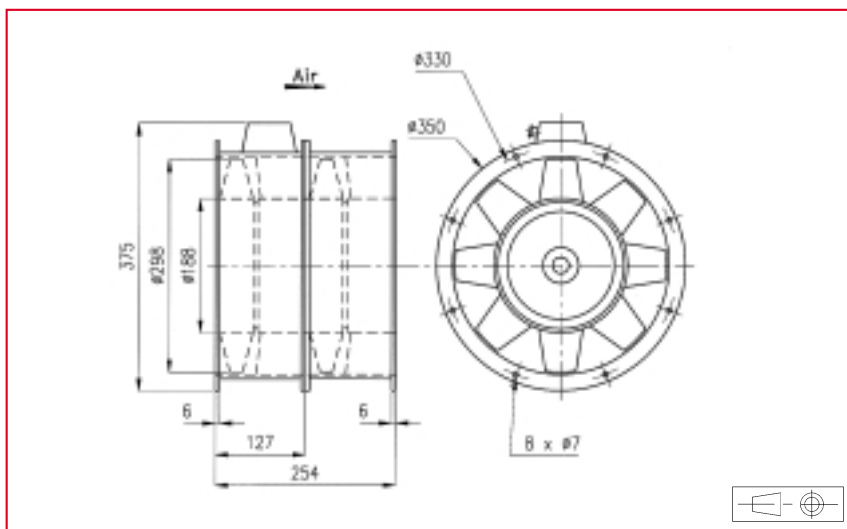
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



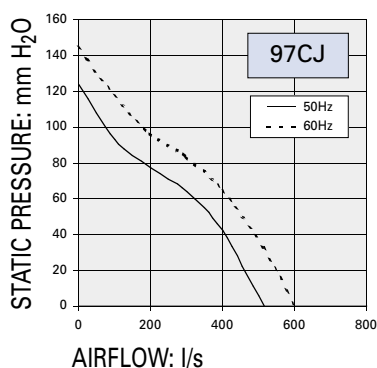
AC Motor

Housing material: Aluminium

Impeller material: Aluminium

Weight: 17 kg

Bearing system: ball bearings



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Bearing system	Connection type	Opearting temperature	
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	Leads	Terminals	°C	°C
97CJ116DC13	220	514	81	2850	50	3		306	1450	6800		X	- 10	70
	380	514	81	2850	50	3		306	850	4000		X	- 10	70
	220	600	84	3300	60	3		344	1100	6000		X	- 10	70
	380	600	84	3300	60	3		344	650	3500		X	- 10	70

Additional versions:

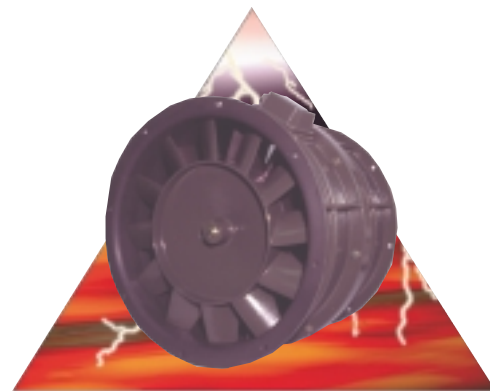
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 154, 156, 158 and 162

High Performance

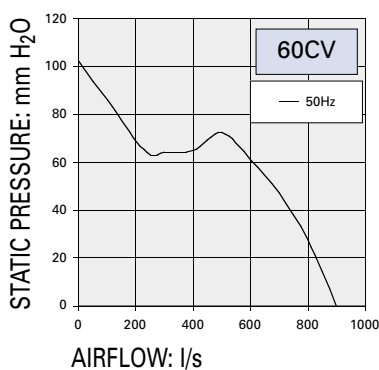
High Performance



See selection guide pages 15 to 26
GAMT 1 listed

L-10 LIFE AT 40°C:
25 000 hours
For more details, see page 14

Housing material: Aluminium
Impeller material: Aluminium
Weight: 20,25 kg
Bearing system: ball bearings

[illegible]

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

See pages: 154, 156, 158 and 162

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

DC Centrifugal Blowers

TOLERANCES (Indicative values)

Speed / airflow	+/- 8 %
Static pressure	+/- 15 %
Input power	+/- 25 %
Voltage	See voltage range on each data sheet

EXAMPLE OF CODIFICATION

593 DL 5 L P 1 1 000

Series code

Speed (from lower to higher):
DL, DM, DH, DS, DX, DZ, DY,
DW or YW = Special speed

Voltage: 1 = 12 V; 2 = 24 V; 4 = 48 V;
5 = 5V; 9 = special voltage

Connection: L = leads; T = terminals

Housing material: P = plastic; M = metal

Bearing systems: 1 = ball bearings;
3 = sleeve bearings; 4 = mixed bearings

1 = no option; 3 = speed sensor; 4 = alarm;
5 = variable speed option;
6 = variable speed and alarm;
7 = variable speed and speed sensor

Special features: 500 = TTL output in case
of speed sensor option; 510 = rib type;
600 = tropicalization; 601 = IP54; 602 = IP55;
others: custom designs

DC Centrifugal Blowers

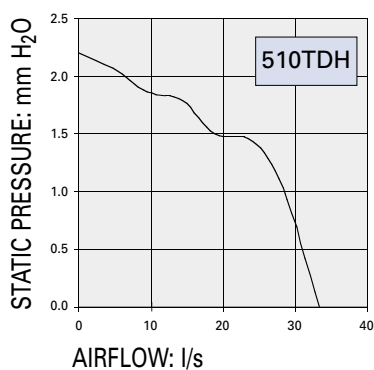


See selection guide pages 15 to 26

Housing material: Plates
Impeller material: Plastic UL 94 VO
Weight: 450 g

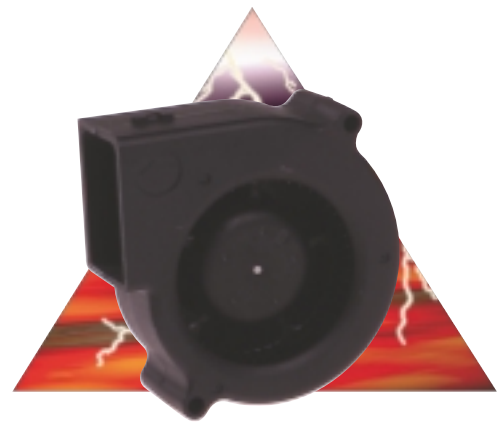
L-10 LIFE AT 40°C:

25 000 hours
For more details, see page 14

[illegible]

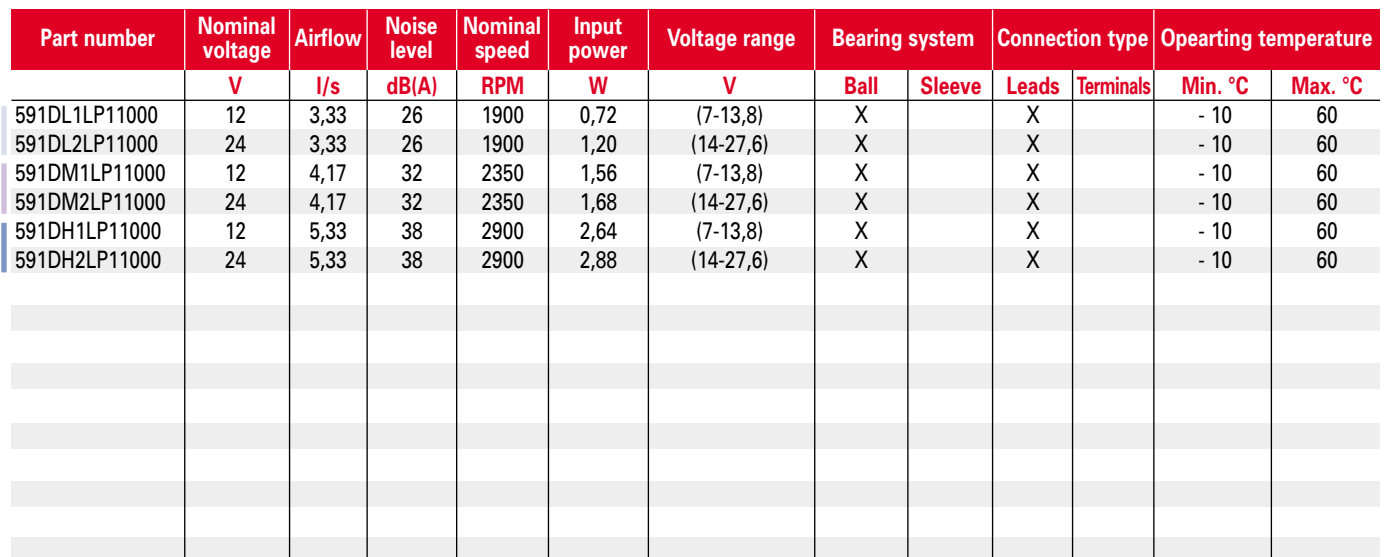
Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

DC Centrifugal Blowers



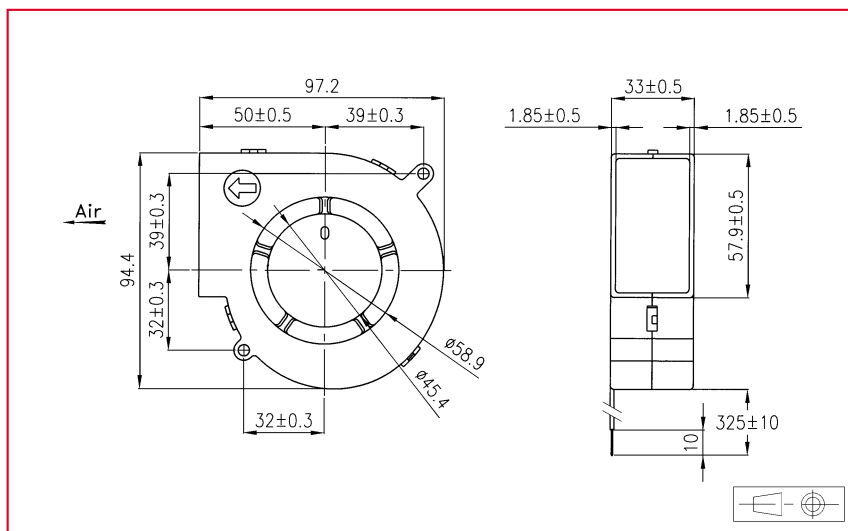
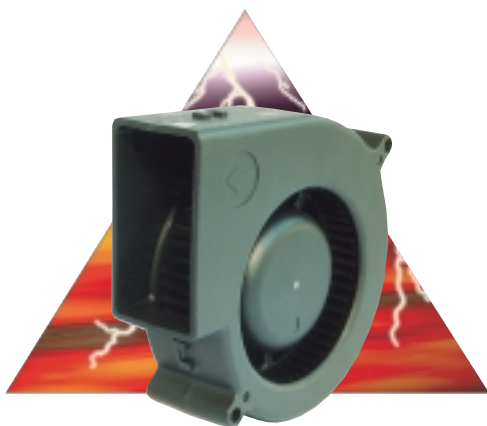
See selection guide pages 15 to 26

For more details, see page 14



Non contractual document. Specifications are subject to change without notice. Pictures for information only, Edition N°1.

97,2 x 94,4 x 33 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

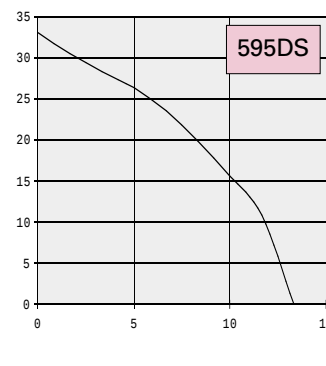
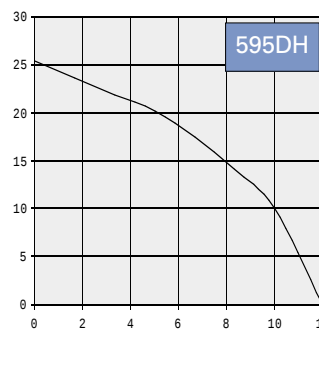
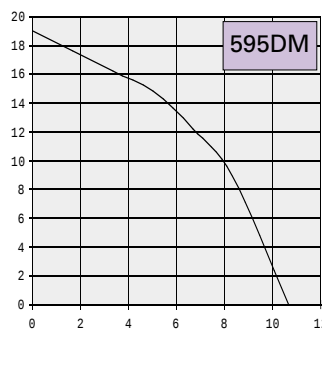
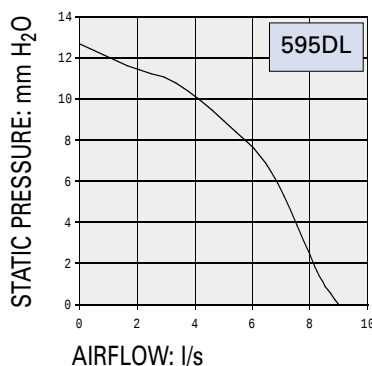
Housing material: Plastic UL 94 VO

Impeller material: Plastic UL 94 VO

Weight: 160 g

Available with:

- speed sensor
- alarm

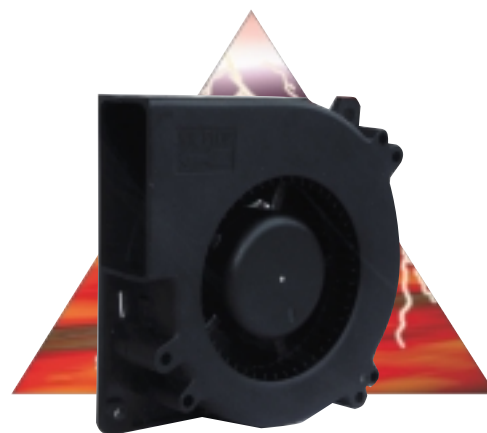


Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
595DL1LP11000	12	9,0	45	2700	3,8	(4-13,8)	X		X		- 10	60
595DL2LP11000	24	9,0	45	2700	3,8	(7-27,6)	X		X		- 10	60
595DM1LP11000	12	10,7	49	3200	6,8	(4-13,8)	X		X		- 10	60
595DM2LP11000	24	10,7	49	3200	6,2	(7-27,6)	X		X		- 10	60
595DH1LP11000	12	12,0	52	3600	9,6	(4-13,8)	X		X		- 10	60
595DH2LP11000	24	12,0	52	3600	9,6	(7-27,6)	X		X		- 10	60
595DS1LP11000	12	13,3	55	4000	13,2	(4-13,8)	X		X		- 10	60
595DS2LP11000	24	13,3	55	4000	13,2	(7-27,6)	X		X		- 10	60

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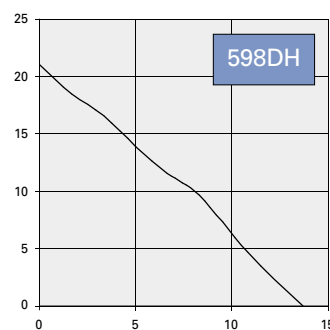
DC Centrifugal
Blowers

DC Centrifugal Blowers



See selection guide pages 15 to 26

For more details, see page 14



See page: 161

126 x 125 x 34,5 mm



Approvals

See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14

Brushless DC Motor

Electrical protection: impedance protected

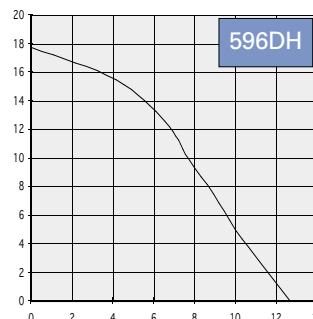
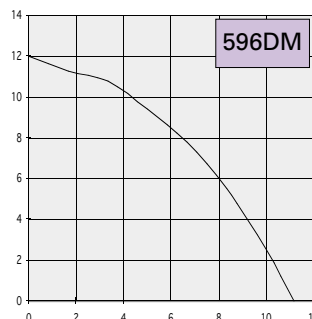
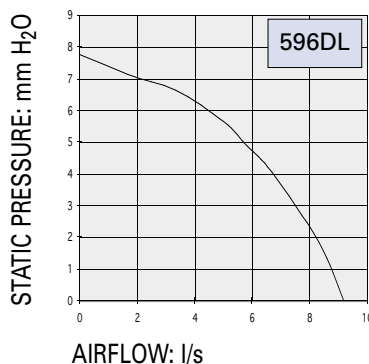
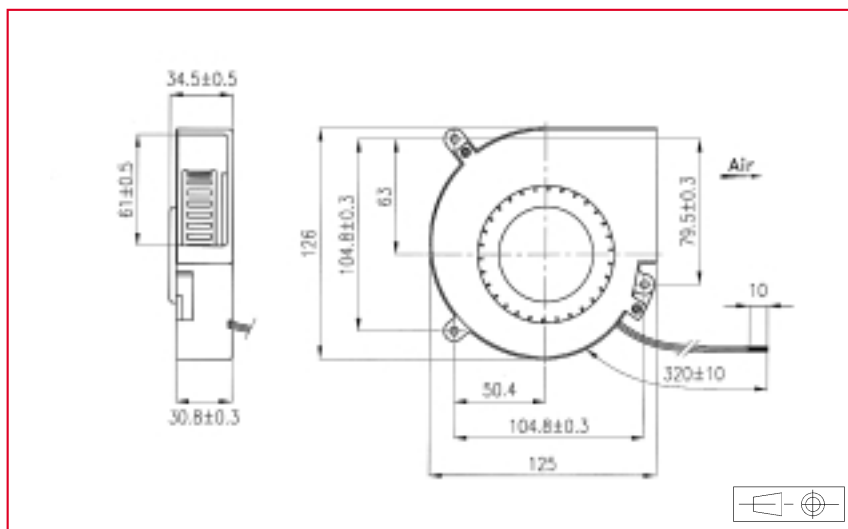
Housing and Impeller material: Plastic UL 94 VO

Weight: 325 g

Autorestart + polarity inversion

Available with:

- speed sensor
- open collector alarm



Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

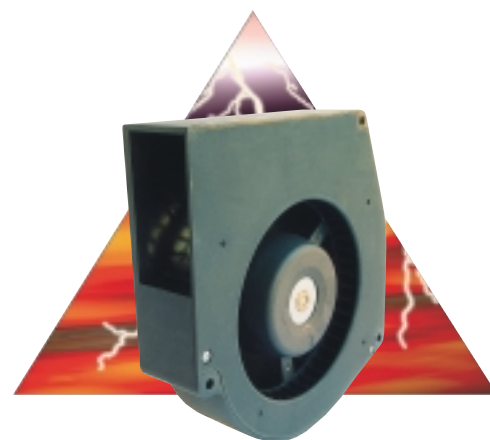
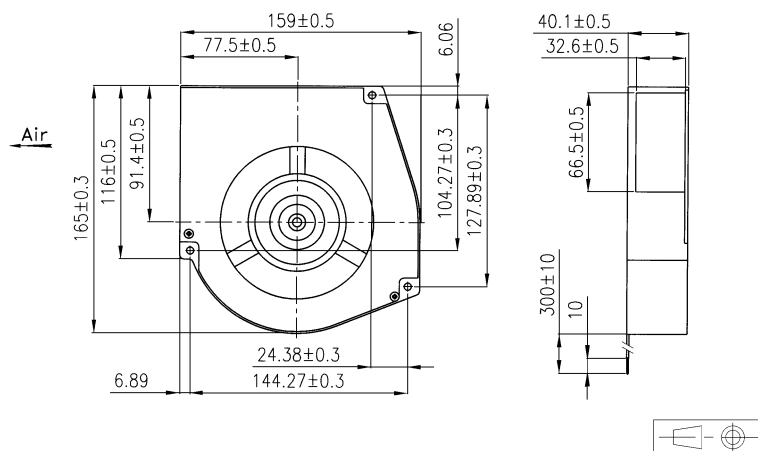
Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V						Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
596DL1LP11000	12	9,17	42,5	1700	2,88	(7-13,8)	X		X		- 10	60
596DL2LP11000	24	9,17	42,5	1700	3,12	(14-28)	X		X		- 10	60
596DL4LP11000	48	9,17	42,5	1700	3,84	(38-56)	X		X		- 10	60
596DM1LP11000	12	11,17	46	2000	5,0	(7-13,8)	X		X		- 10	60
596DM2LP11000	24	11,17	46	2000	5,52	(14-28)	X		X		- 10	60
596DM4LP11000	48	11,17	46	2000	5,76	(38-56)	X		X		- 10	60
596DH1LP11000	12	12,83	51,5	2300	8,16	(7-13,8)	X		X		- 10	60
596DH2LP11000	24	12,83	51,5	2300	8,16	(14-28)	X		X		- 10	60

Accessories:

See page: 161

DC Centrifugal
Blowers

165 x 159 x 40 mm



Approvals

See selection guide pages 15 to 26

Brushless DC Motor

Electrical protection: impedance protected
Housing material: Plastic UL 94 V0
Impeller material: Plastic UL 94 V0
Weight: 588 g

Available with:

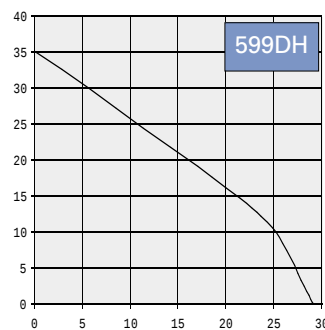
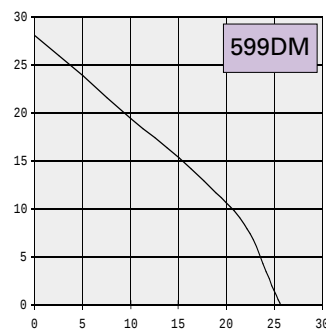
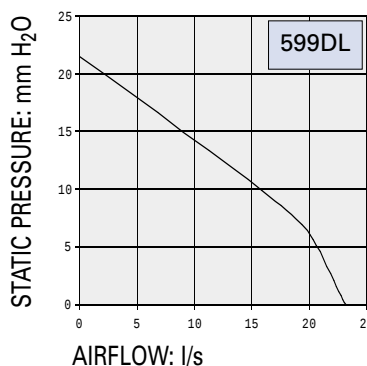
- speed sensor
- alarm

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Input power	Voltage range	Bearing system		Connection type		Operating temperature	
	V	l/s	dB(A)	RPM	W	V	Ball	Sleeve	Leads	Terminals	Min. °C	Max. °C
599DL1LP11000	12	23,2	51,5	1800	9,6	(7-13,2)V	X		X		- 10	60
599DL2LP11000	24	23,2	51,5	1800	9,6	(14-26,4)V	X		X		- 10	60
599DL4LP11000	48	23,2	51,5	1800	10,6	(28-56)V	X		X		- 10	60
599DM1LP11000	12	25,7	54,5	2000	13,2	(7-13,2)V	X		X		- 10	60
599DM2LP11000	24	25,7	54,5	2000	13,4	(14-26,4)V	X		X		- 10	60
599DM4LP11000	48	25,7	54,5	2000	13,4	(28-56)V	X		X		- 10	60
599DH1LP11000	12	29,2	56,5	2200	17,2	(7-13,2)V	X		X		- 10	60
599DH2LP11000	24	29,2	56,5	2200	17,8	(14-26,4)V	X		X		- 10	60

Accessories:

See page: 161

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

AC Centrifugal Blowers

TOLERANCES (Indicative values)

Speed / airflow	+/- 4 %
Static pressure	+/- 8 %
Input power	+/- 10 %
Curent	+/- 10 %
Voltage	+/- 10 %

EXAMPLE OF CODIFICATION

607 COV 01 6D XXX

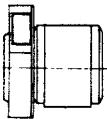
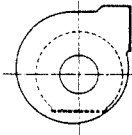
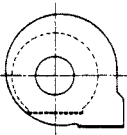
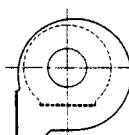
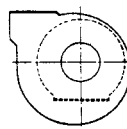
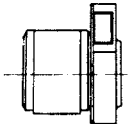
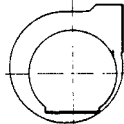
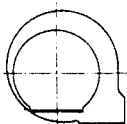
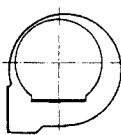
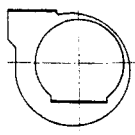
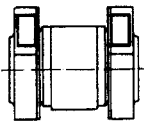
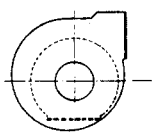
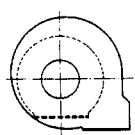
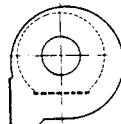
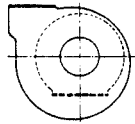
Series code

Speed

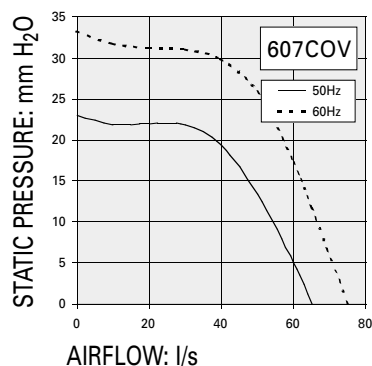
Mechanical*

Voltage: 6D = 220 - 380 V; 61 = 220 V;
62 = 115 V; 6Y = 440 V

*CHART OF THE DIFFERENT DESIGNS

				
Direct	Symbol 01	Symbol 02	Symbol 03	Symbol 04
				
Inverse	Symbol 11	Symbol 12	Symbol 13	Symbol 14
				
Double	Symbol 21	Symbol 22	Symbol 23	Symbol 24

AC Centrifugal Blowers



- safety switch (see picture)

[illegible]

See pages: 157, 159 and 162

148 x 152 x 197,5 mm



Approvals

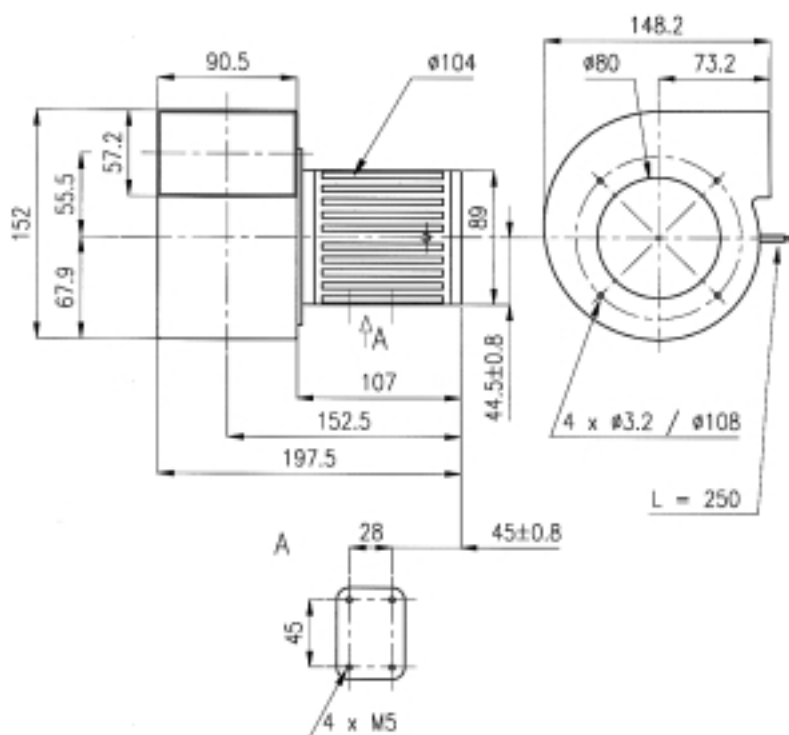
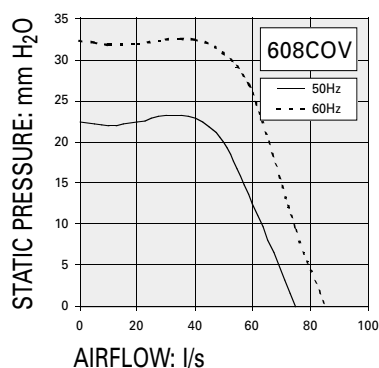
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor

Housing material: Steel plate

Wheel material: Steel plate

Weight: 3,45 kg

Bearing system: ball bearings

Connection: flying leads

Available with:

- safety switch

[illegible]

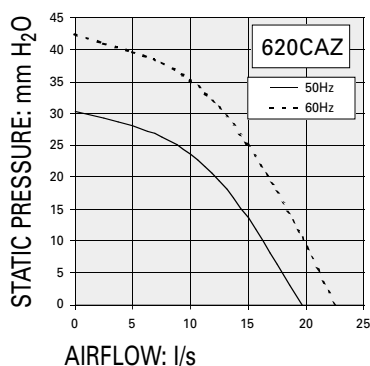
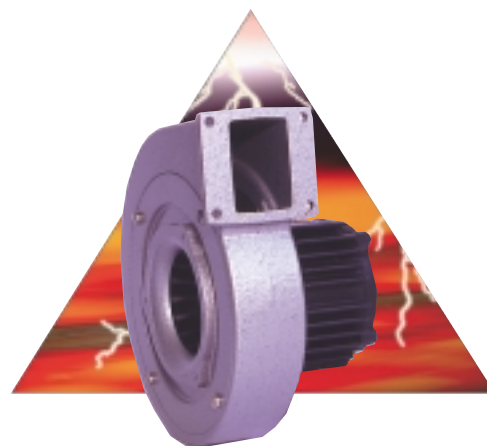
Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

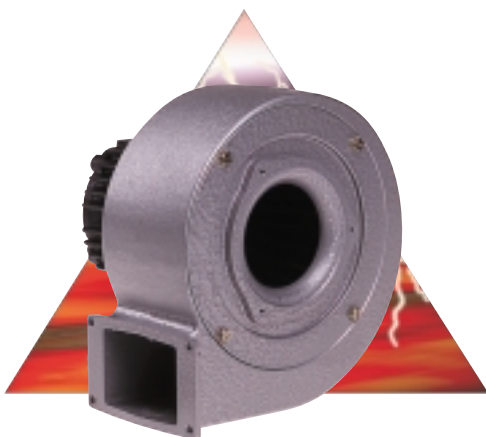
Accessories:

See pages: 157, 159 and 162

AC Centrifugal Blowers

[illegible]

162 x 175 x 145 mm



Approvals

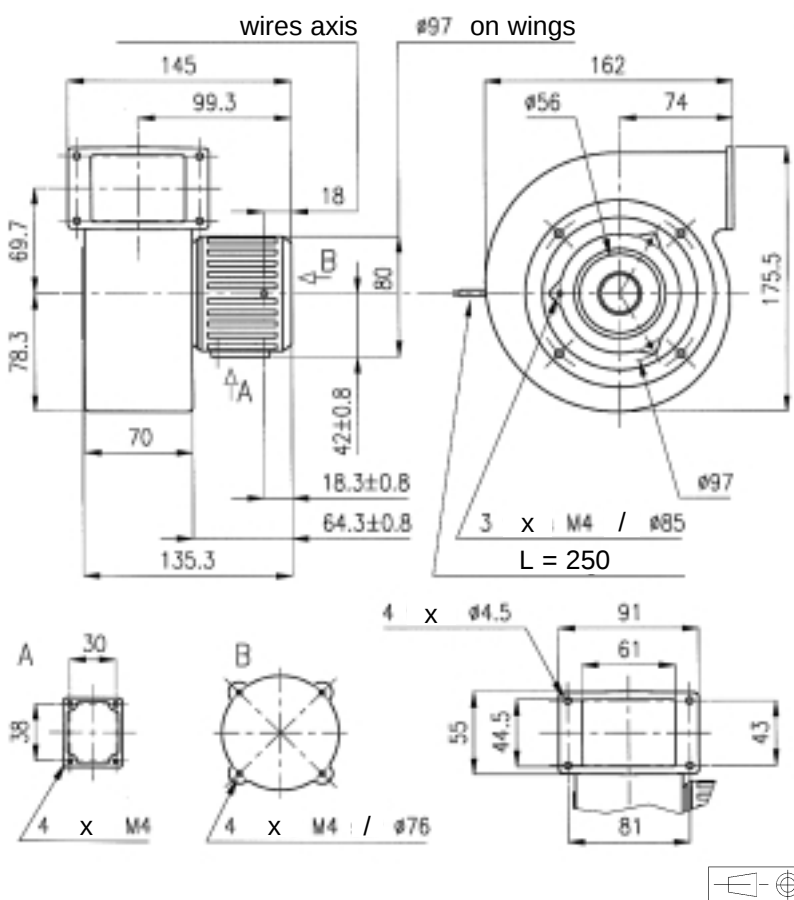
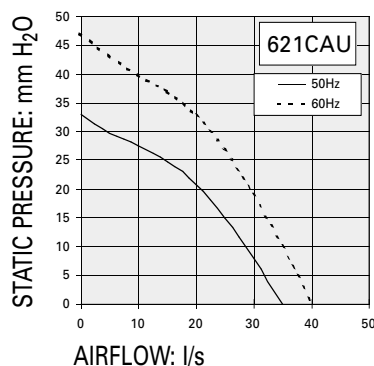
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor

Housing material: Aluminium
Wheel material: Plastic UL 94 VO
Weight: 2,3 kg
Bearing system: ball bearings

Connection: flying leads

Available with:

- safety switch

[illegible]

Additional versions:

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

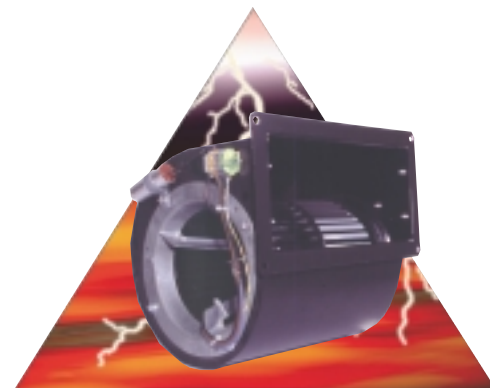
Accessories:

See pages: 157, 159 and 162

Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1

AC Centrifugal Blowers

AC Centrifugal Blowers

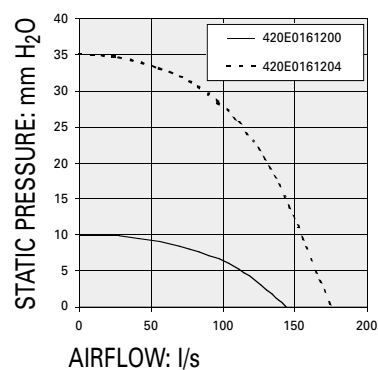


See selection guide pages 15 to 26

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14

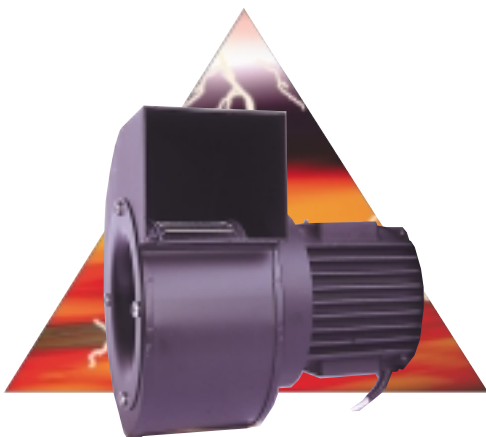


Housing material: Metal
Wheel material: Steel plate
Weight: 3,5 kg
Bearing system: ball bearings

Connection: terminals
Electrical protection: thermally protected

[illegible]

200 x 222 x 225 mm



Approvals

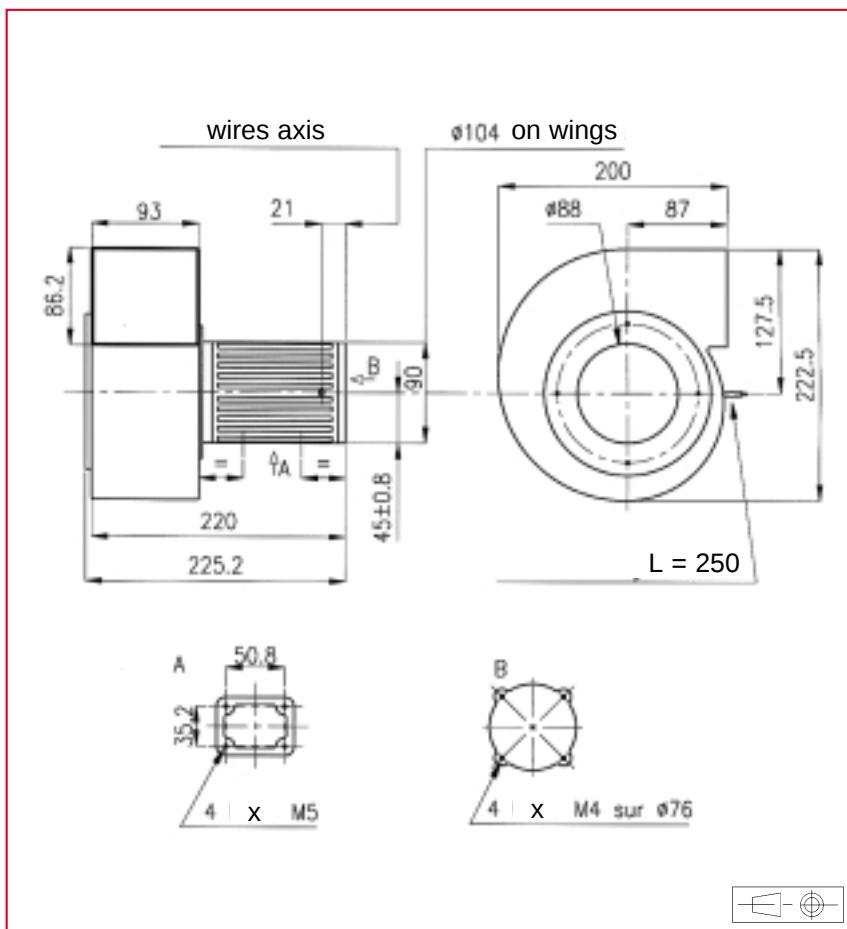
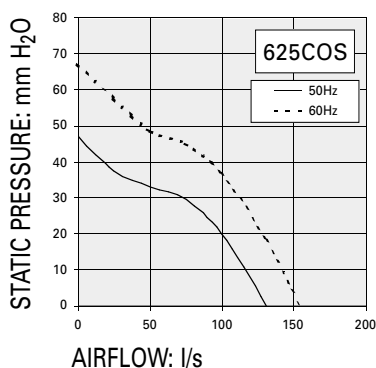
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor

Housing material: Steel plate

Wheel material: Steel plate

Weight: 4,9 kg

Bearing system: ball bearings

Connection: flying leads

Available with:

- safety switch

Part number	Nominal voltage	Airflow	Noise level	Nominal speed	Frequency	Phases	Capacitor	Input power	Nominal current	Starting current	Operating temperature
	V	l/s	dB(A)	rpm	Hz		µF	W	mA	mA	°C
625COS016DC13	220	130	65	2850	50	3		156	560	2100	- 10
	380	130	65	2850	50	3		155	520	2500	- 10
	220	155	68	3300	60	3		223	610	2000	- 10
	380	155	68	3300	60	3		210	460	2150	- 10
	220	130	65	2850	50	1	6,9	156	1000	3600	- 10
	380	130	65	2850	50	1	2,2	155	900	4250	- 10
	220	155	68	3300	60	1	6,9	223	1100	3450	- 10
	380	155	68	3300	60	1	2,2	210	800	3700	- 10

Additional versions:

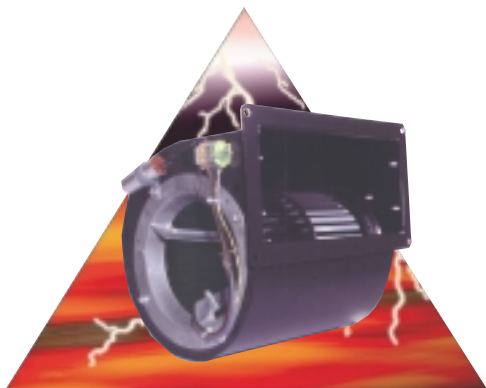
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 157, 159 and 162

AC Centrifugal
Blowers

205 x 218 x 270 mm



Approvals

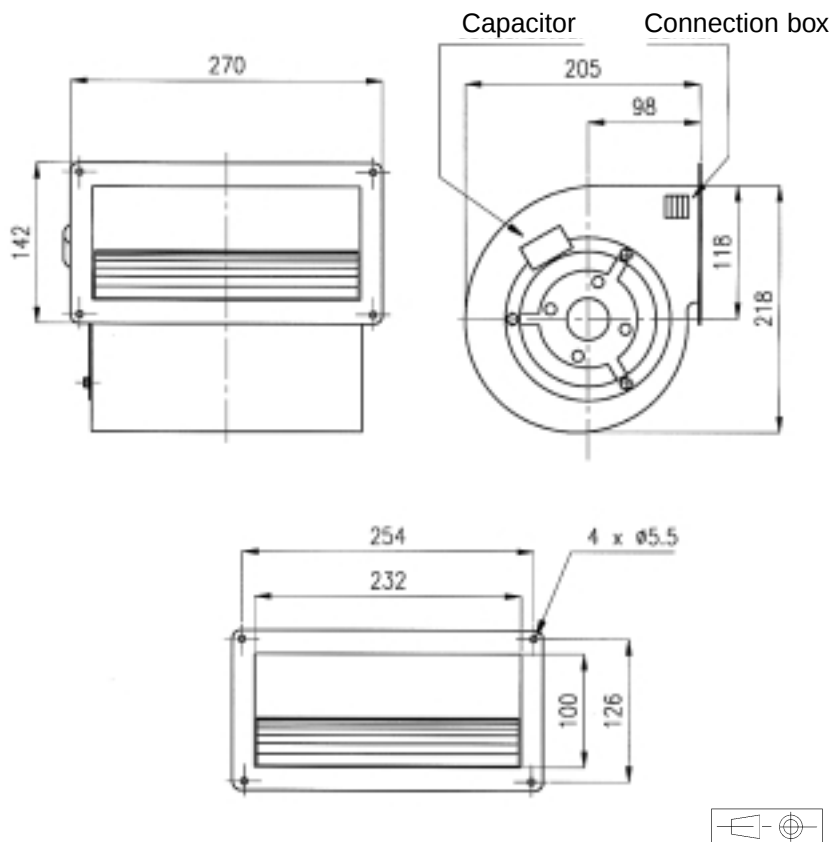
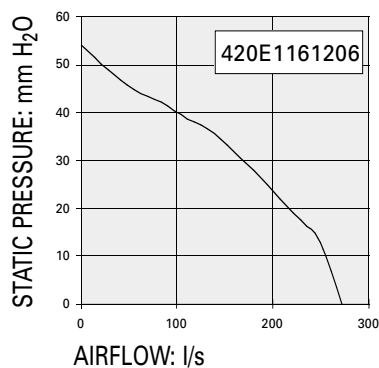
See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor

Housing material: Metal

Wheel material: Steel plate

Weight: 4,2 kg

Bearing system: ball bearings

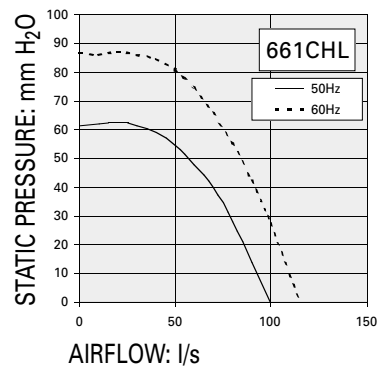
Connection: terminals

Electrical protection: thermally protected

[illegible]

AC Centrifugal Blowers

AC Centrifugal Blowers



Connection : flying leads

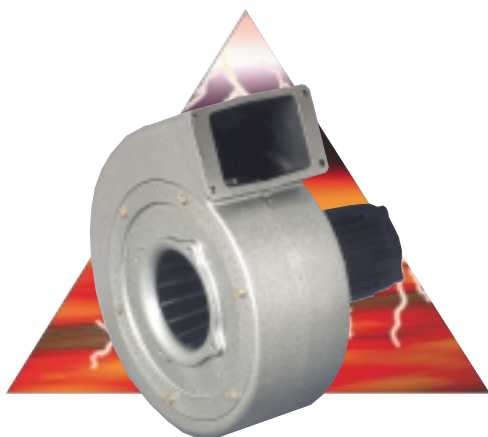
- safety switch

[illegible]

Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

See pages: 157, 159 and 162

268 x 300 x 258 mm



Approvals

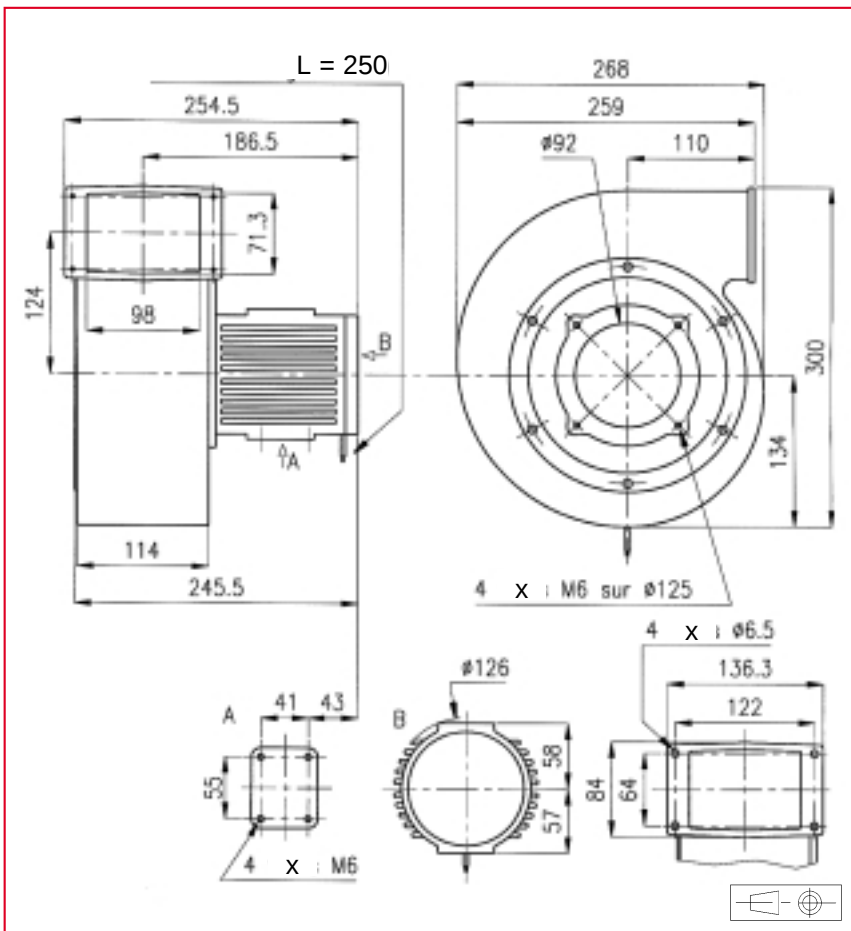
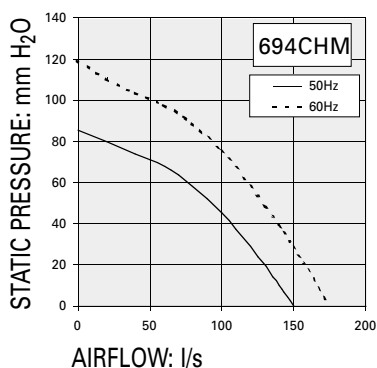
See selection guide pages 15 to 26
GAMT 1 listed

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor

Housing material: Aluminium

Wheel material: Aluminium

Weight: 6,5 kg

Bearing system: ball bearings

Connection: flying leads

Available with:

- safety switch

[illegible]

Additional versions:

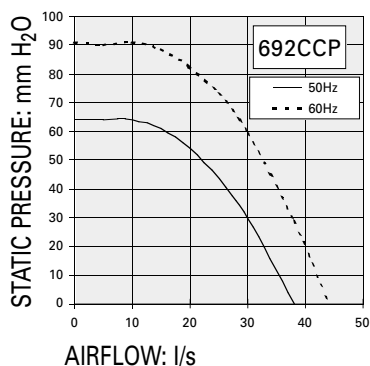
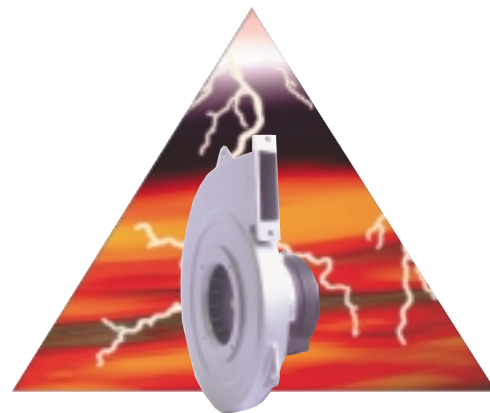
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range

Accessories:

See pages: 157, 159 and 162

AC Centrifugal Blowers

AC Centrifugal Blowers



- safety switch

[illegible]

See pages: 157, 159 and 162

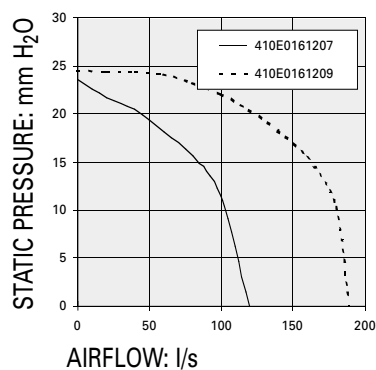
AC Centrifugal Blowers



See selection guide pages 15 to 26

L-10 LIFE AT 40°C:

For more details, see page 14



Connection: terminals

Housing material: Metal
Wheel material: Steel plate
Weight: 4,5 kg
Bearing system: ball bearings

[illegible]

Backward Curved Fans

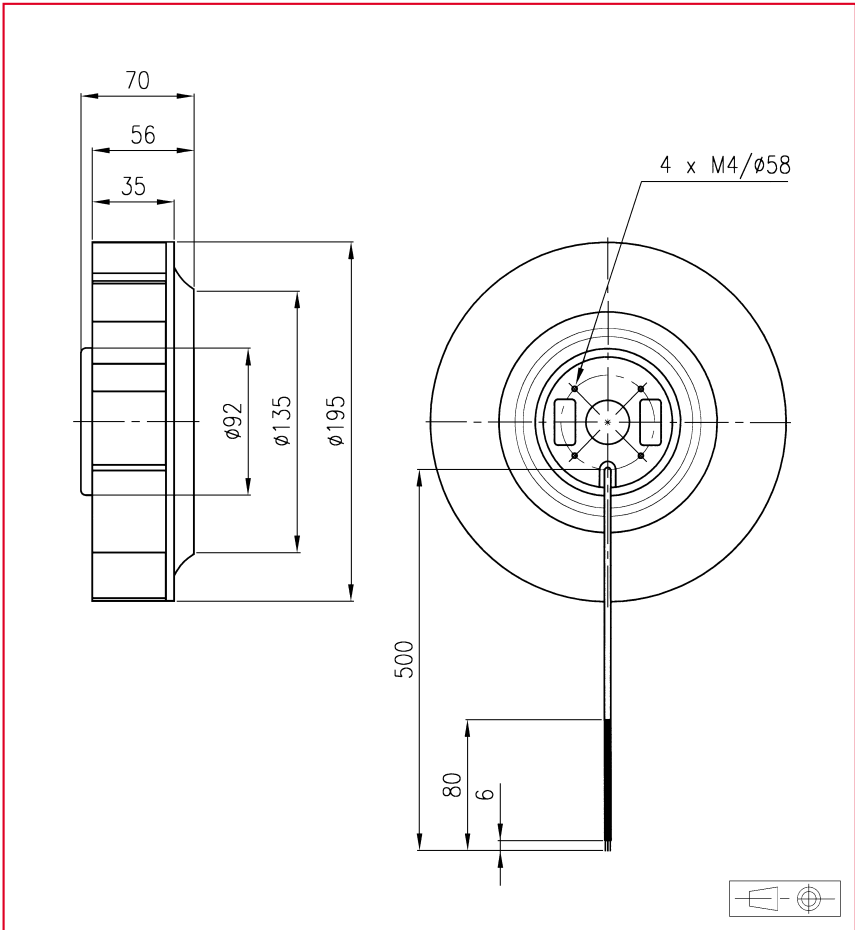
TOLERANCES (Indicative values)

Speed / airflow	+/- 6 %
Static pressure	+/- 12 %
Input power	+/- 15 %
Curent	+/- 15 %
Voltage	+/- 15 %

EXAMPLE OF CODIFICATION

	430	E0	1	61	195
Series code					
Motor code: E0 = single phase; ET = 3 phases					
Ball bearings					
Voltage: 61 = 230 V 50/60 Hz; 62 = 115 V 60 Hz					
Wheel diameter					

Ø 195 x 70 mm



Brushless DC Motor	
Wheel material: plastic UL 94 VO	Design code: C13 - Tropicalized
Bearing system: ball bearings	IP 44
Connection: flying leads	Speed sensor (TTL or open collector)
Electrical protection: thermally protected	Variable speed (0 - 10 V input / PWM)

Wheel material: plastic UL 94 VO	Design code: C13 - Tropicalized
Bearing system: ball bearings	IP 44
Connection: flying leads	Speed sensor (TTL or open collector)
Electrical protection: thermally protected	Variable speed (0 - 10 V input / PWM)

Bearing system: ball bearings	IP 44
Connection: flying leads	Speed sensor (TTL or open collector)
Electrical protection: thermally protected	Variable speed (0 - 10 V input / PWM)

Connection: flying leads	Speed sensor (TTL or open collector)
Electrical protection: thermally protected	Variable speed (0 - 10 V input / PWM)

Electrical protection: thermally protected Variable speed (0 - 10 V input / PWM)

Design code: C13 - Tropicalized
IP 44
Speed sensor (TTL or open collector)
Variable speed (0 - 10 V input / PWM)

IP 44
Speed sensor (TTL or open collector)
Variable speed (0 - 10 V input / PWM)

Speed sensor (TTL or open collector)
Variable speed (0 - 10 V input / PWM)

Variable speed (0 - 10 V input / PWM)



Approvals

See selection guide pages 15 to 26

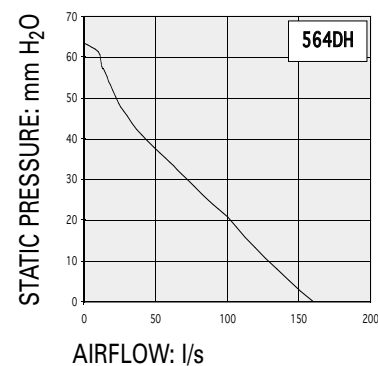
See selection guide pages 15 to 26

Life expectancy
L-10 LIFE AT 40°C:
80 000 hours
For more details, see page 14

L-10 LIFE AT 40°C:
80 000 hours
For more details, see page 14

80 000 hours
For more details, see page 14

For more details, see page 14

[illegible]

Additional versions:
Salt spray protection - IP 54 - alarm as options
Other voltages: consult factory

Salt spray protection - IP 54 - alarm as options
Other voltages: consult factory

Other voltages: consult factory

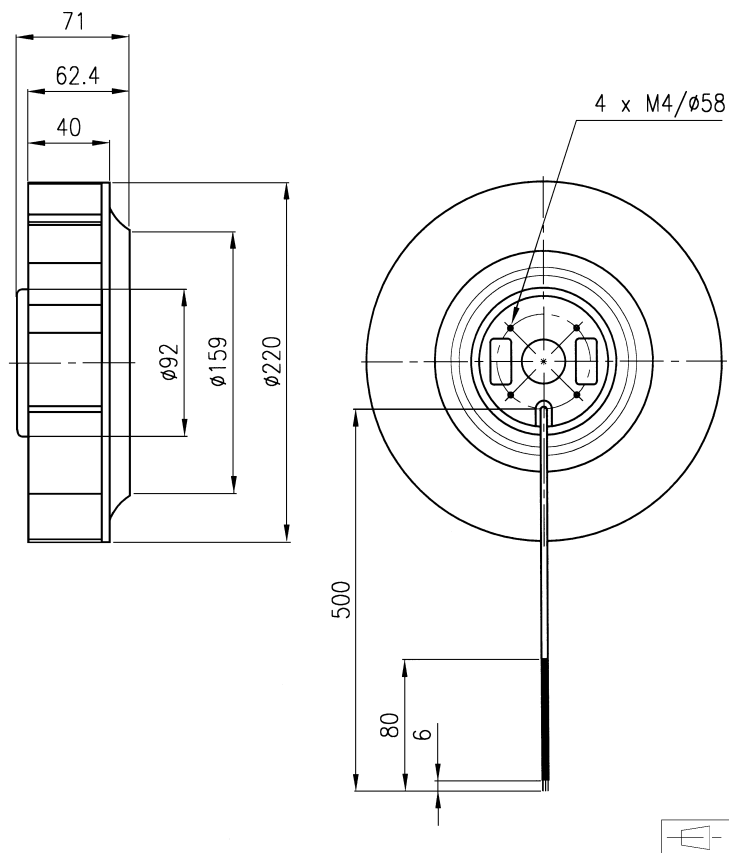
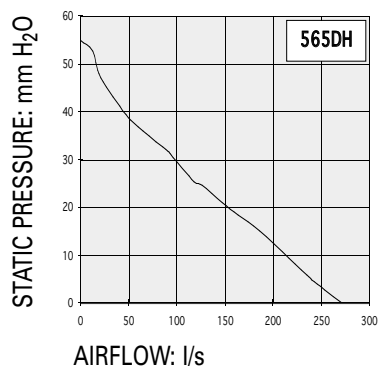
New !



See selection guide pages 15 to 26

L-10 LIFE AT 40°C:

For more details, see page 14



Variable speed (0 - 10 V input / PWM)

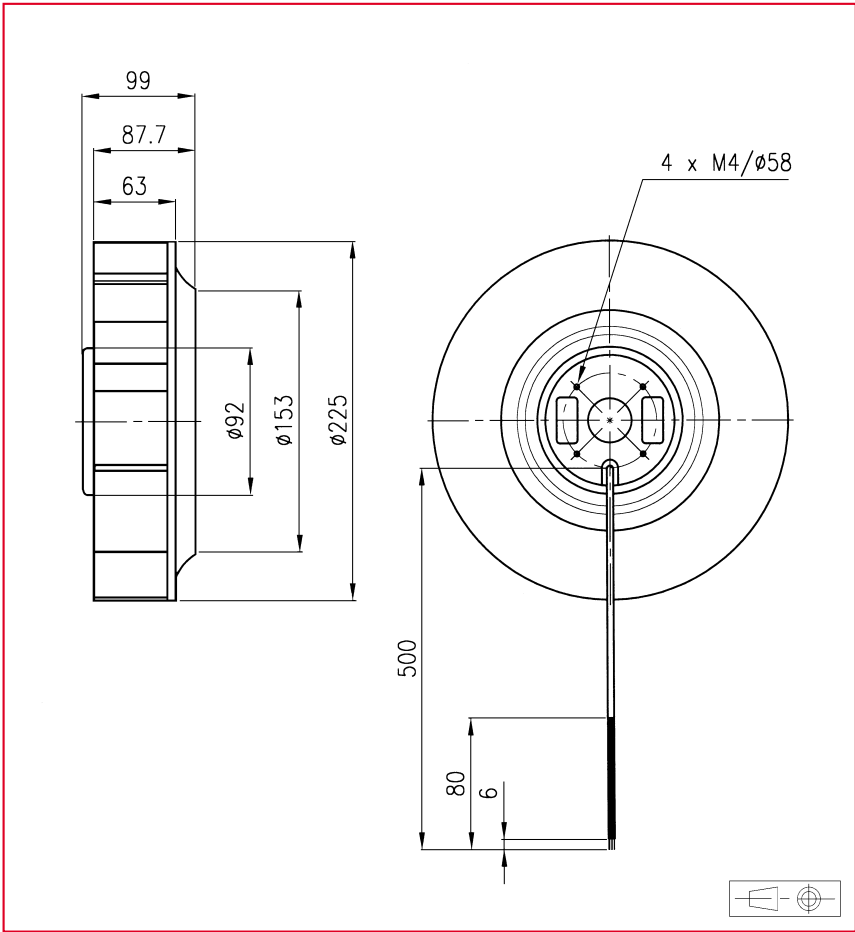
[illegible]

Other voltages: consult factory

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Backward Curved Fans

Ø 225 x 99 mm



Approvals
See selection guide pages 15 to 26

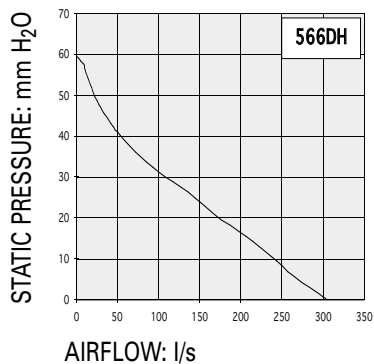
See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

80 000 hours

For more details, see page 14



Brushless DC Motor	
Wheel material: plastic UL 94 VO or steel	Design code: C13 - Tropicalized
Bearing system: ball bearings	IP 44
Connection: flying leads	Speed sensor (TTL or open collector)
Electrical protection: thermally protected	Variable speed (0 - 10 V input / PWM)

Wheel material: plastic UL 94 VO or steel

Bearing system: ball bearings

Connection: flying leads

Electrical protection: thermally protected

Design code: C13 - Tropicalized

IP 44

Speed sensor (TTL or open collector)

Variable speed (0 - 10 V input / PWM)

[illegible]

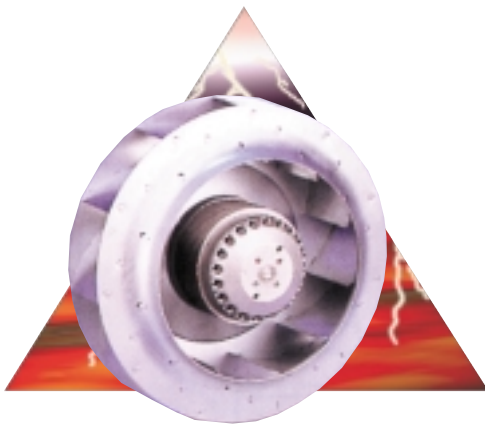
Additional versions:
Salt spray protection - IP 54 - alarm as options
Other voltages: consult factory

Salt spray protection - IP 54 - alarm as options

Other voltages: consult factory

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Ø 195 x 70 mm



Approvals

See selection guide pages 15 to 20

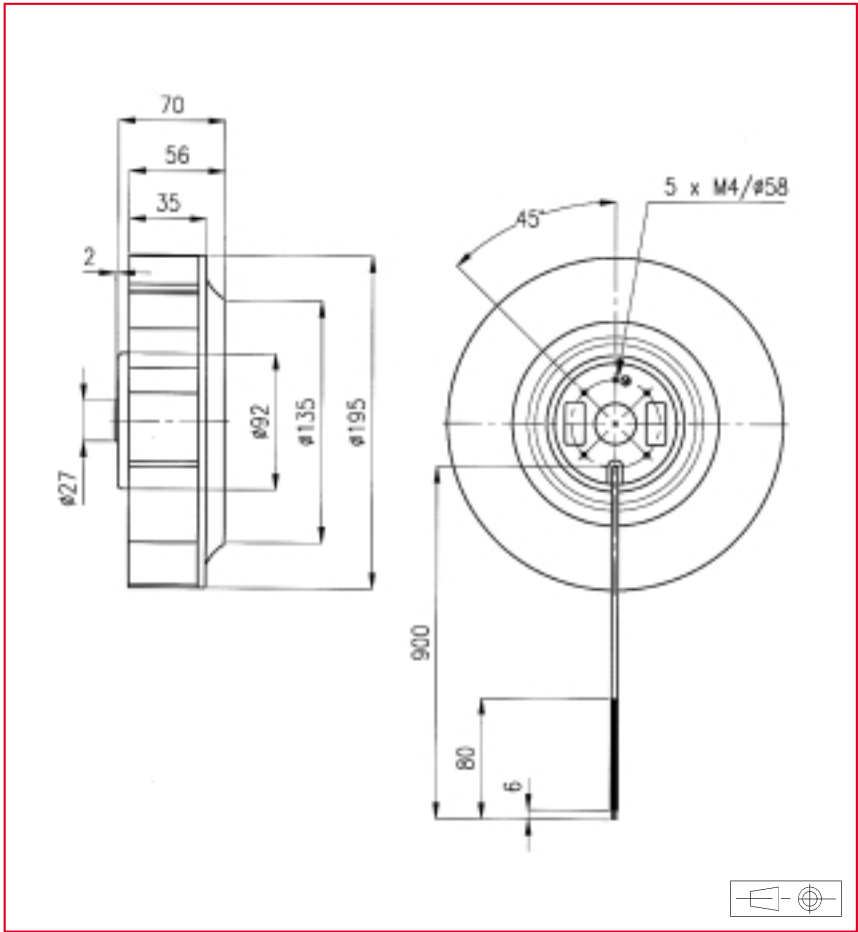
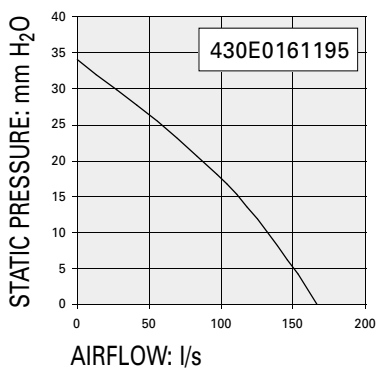
See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:
25 000 hours

25 000 hours
For more details, see page 14

For more details, see page 14



AC Motor	Electrical protection: thermally protected
Wheel material: Steel plate	
Weight: 1,2 kg	
Bearing system: ball bearings	
Connection: flying leads	

Electrical protection: thermally protected

Wheel material: Steel plate

Weight: 1,2 kg

Bearing system: ball bearings

Connection: flying leads

[illegible]

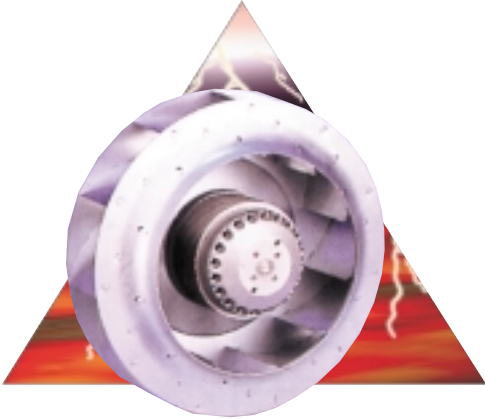
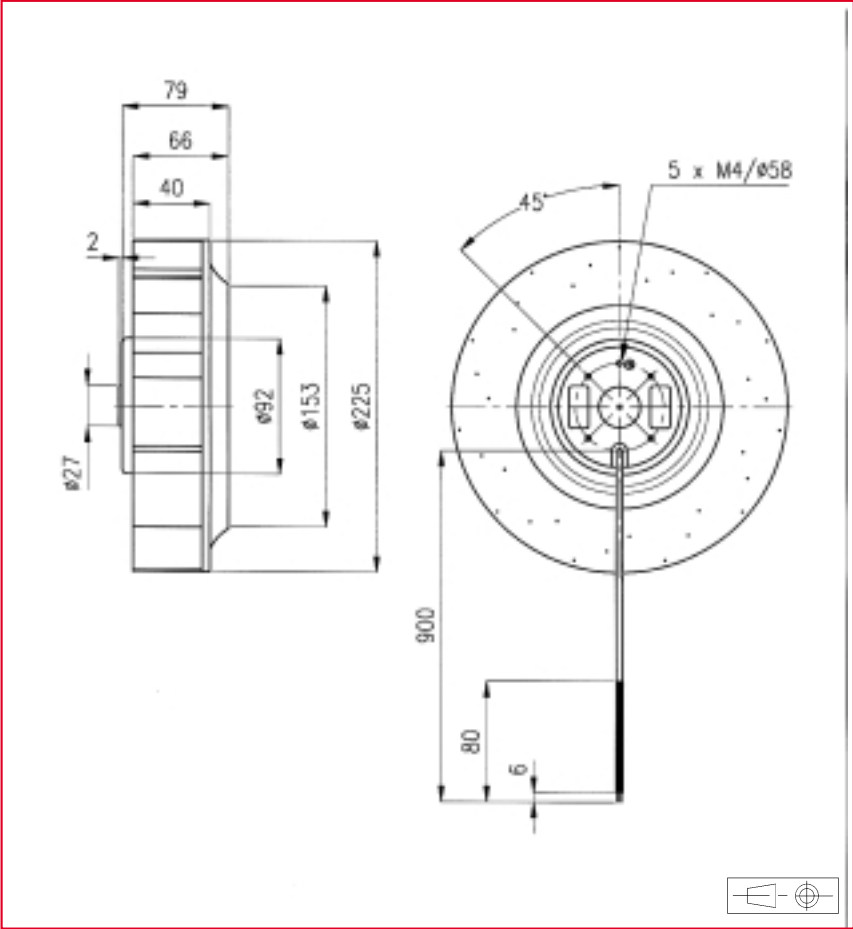
Additional versions:
115 V 60 Hz

115 V 60 Hz

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Backward Curved Fans

Ø 225 x 79 mm



Approvals

See selection guide pages 15 to 26

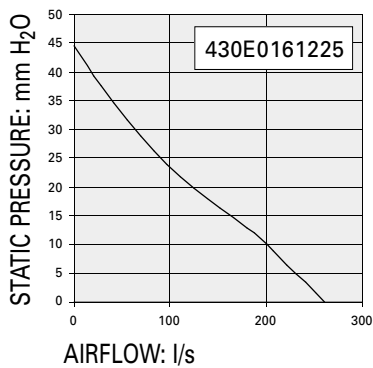
See selection guide pages 15 to 26

Life expectancy

L-10 LIFE AT 40°C:

25 000 hours

For more details, see page 14



AC Motor Wheel material: Steel plate Weight: 2,1 kg Bearing system: ball bearings Connection: flying leads	Electrical protection: thermally protected
---	--

Wheel material: Steel plate

Weight: 2,1 kg

Bearing system: ball bearings

Connection: flying leads

Electrical protection: thermally protected

[illegible]

Additional versions:
115 V 60 Hz

115 V 60 Hz

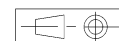
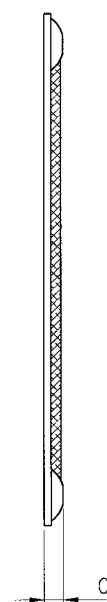
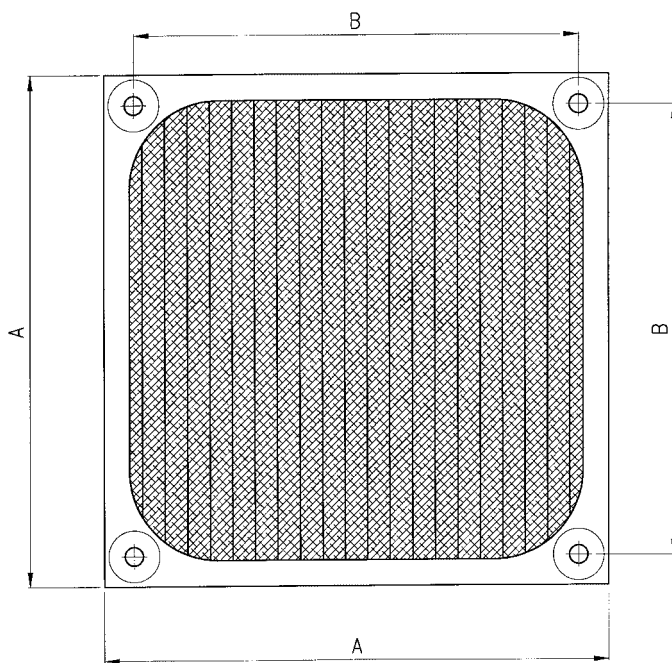
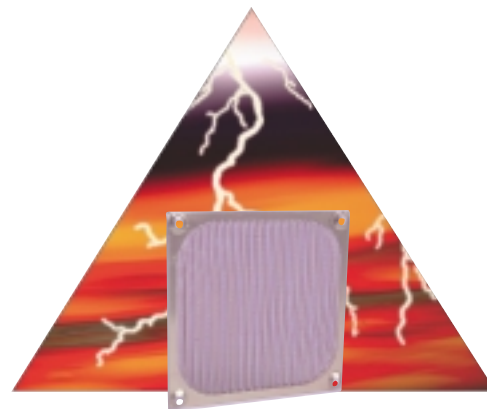
CONTENTS

	Pages
- Filters and finger guards.....	148 to 158
- Adapters, fixing parts, plugs and cables.....	159 to 161
- Capacitors	162
- Alarm relays	163 to 165

METAL MESH FILTERS

BENEFITS:

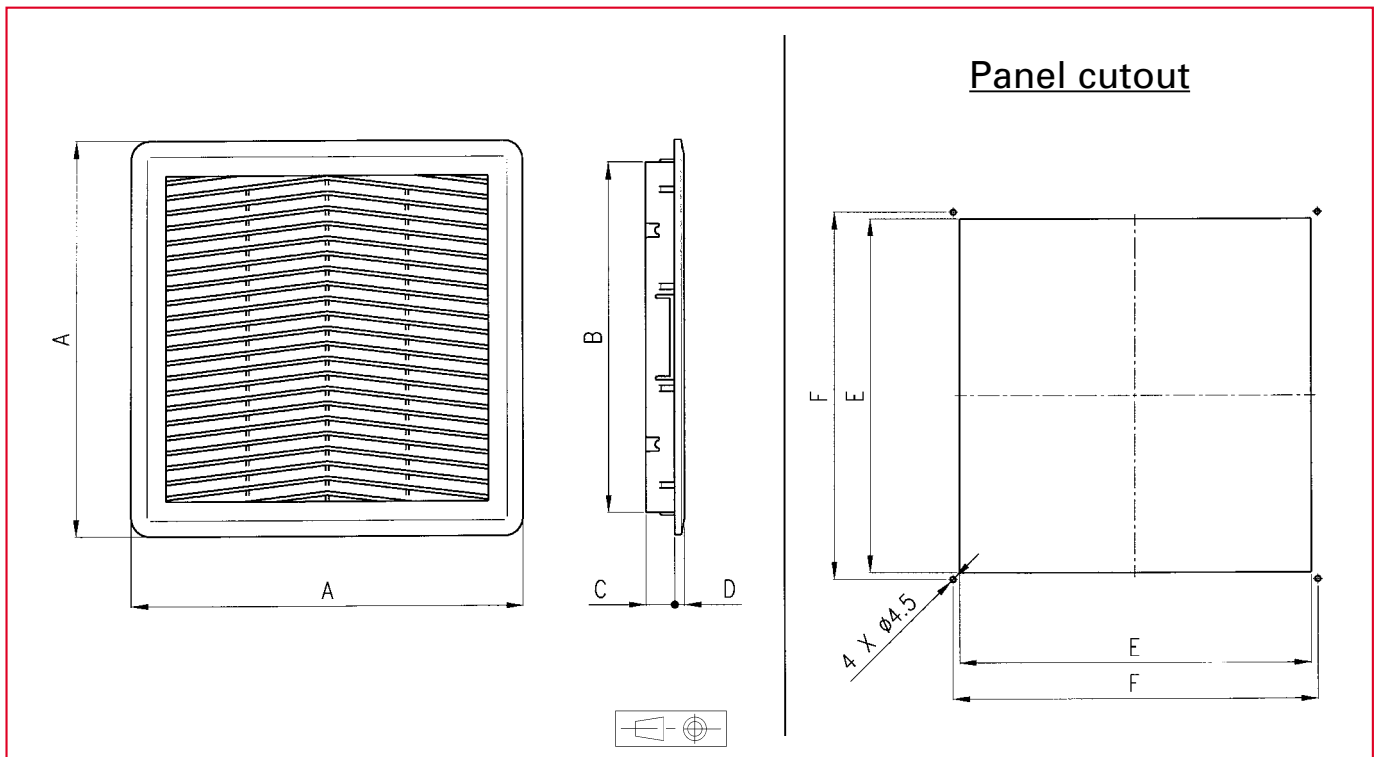
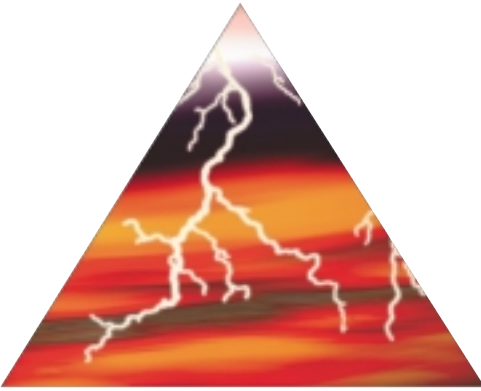
- High efficiency in filtering, no pressure drop
- Smart finish allowing an easily accommodation to the equipment design
- Gives effective EMI/RFI protection

[illegible]

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IP 54 FILTERS

- Plastic ABS UL 94V0

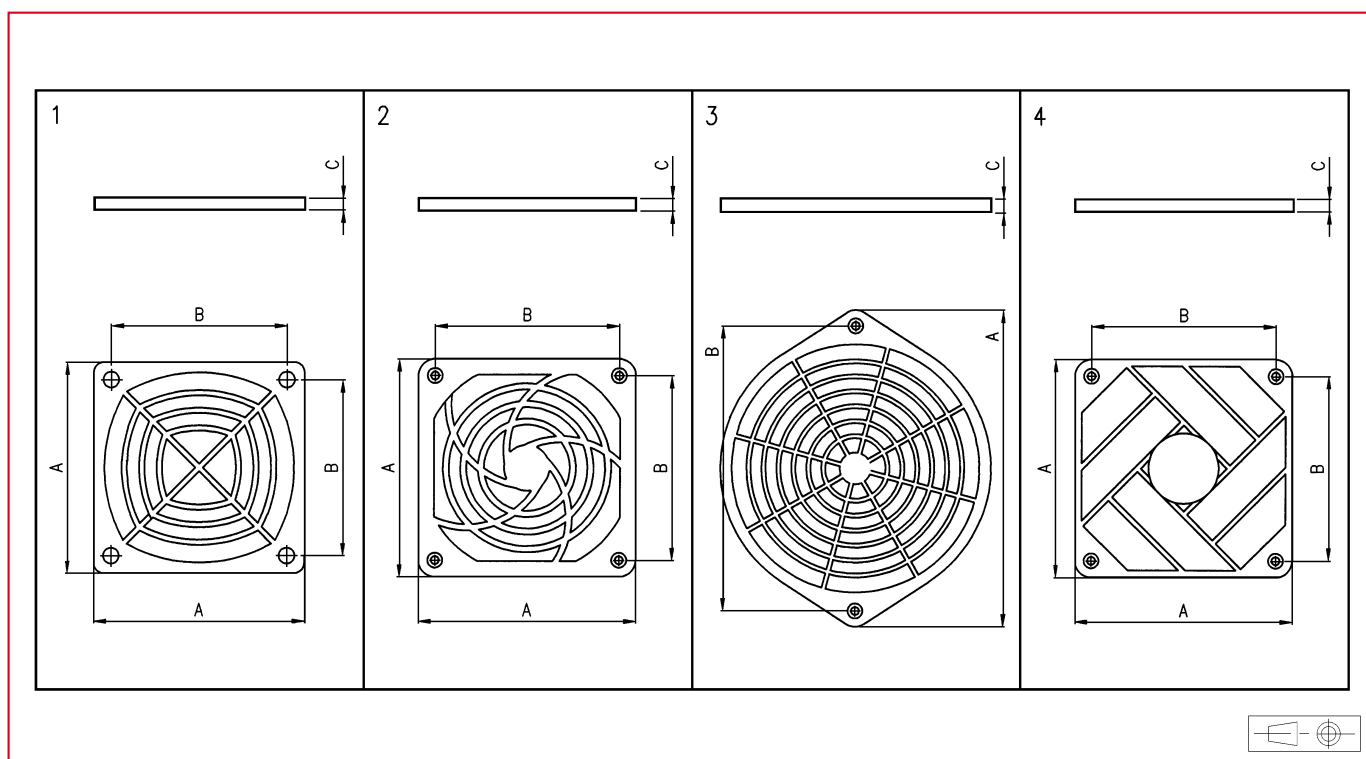


Part number	Dimensions (mm)					
	A	B	C	D	E	F
F120 IP54	150	124	23	5,5	125,5	131
F150 IP54	250	220	23	8	223	230
F200 IP54	325	288	24	8	291	302

Accessories

PLASTIC FILTER

Material: Plastic UL94V0



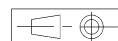
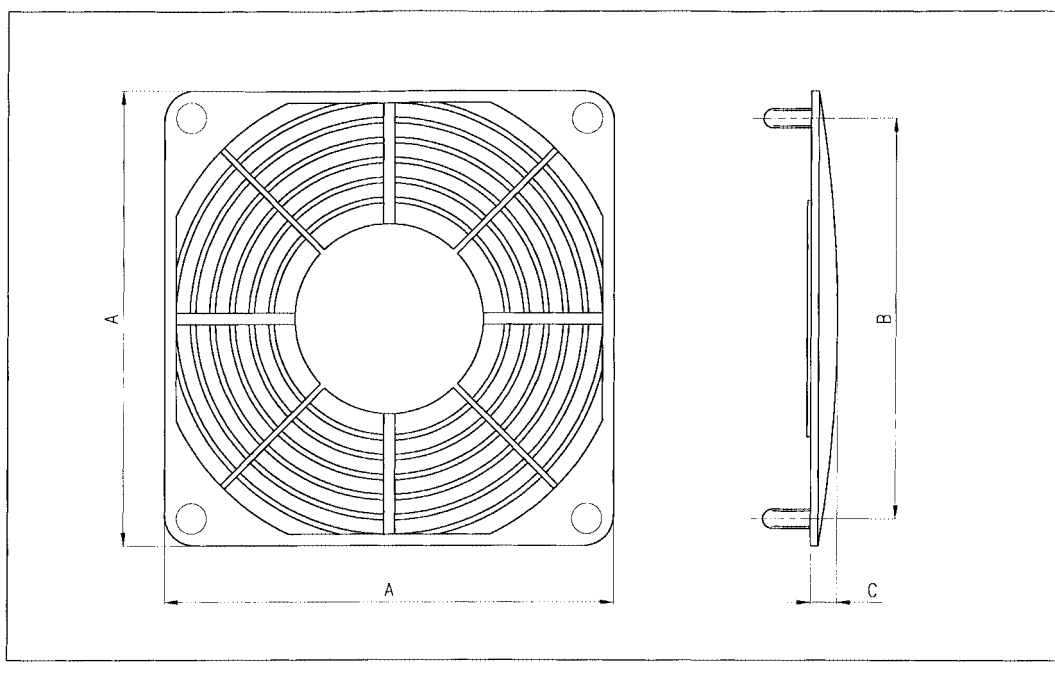
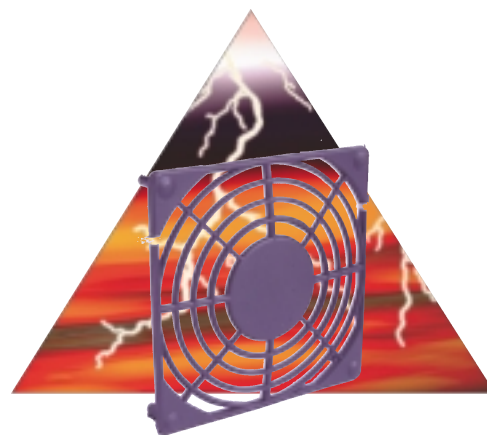
Part number	Model	Dimensions (mm)			Filter pads	Fans dimensions
		A	B	C		
F60/T102	1	60	50	6,6	F60/T102-03	60 x 60
F80/T102	2	84	71,5	10	F80/T102/03	80 x 80
F90/T102	2	96	82,5	10	F90/T102/03	92 x 92
F120/T102	2	124	104,8	11	F120/T102-03	120 x 120
F120/T111	4	124	104,8	12,5	F120/T102-03	120 x 120
F172/T102	3	180	154	10	F172/T102-03	172 x 150

Accessories

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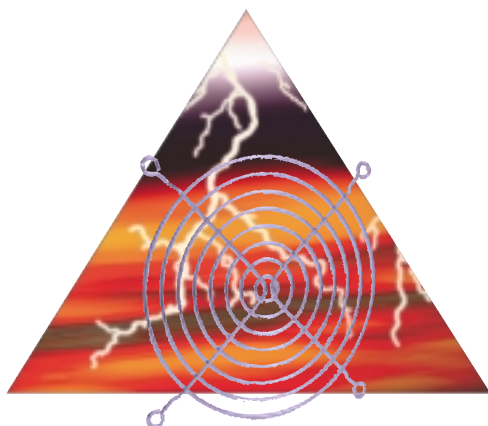
FASTENED BY A SPRING-CATCH

- The quickness and the efficiency of the mounting operation improve the fitting costs
- Flexible and strong
- Careful finish
- Effective protection: the maximum space between each ellipse of the finger guard respects the values of the norms in use.

[illegible]

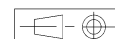
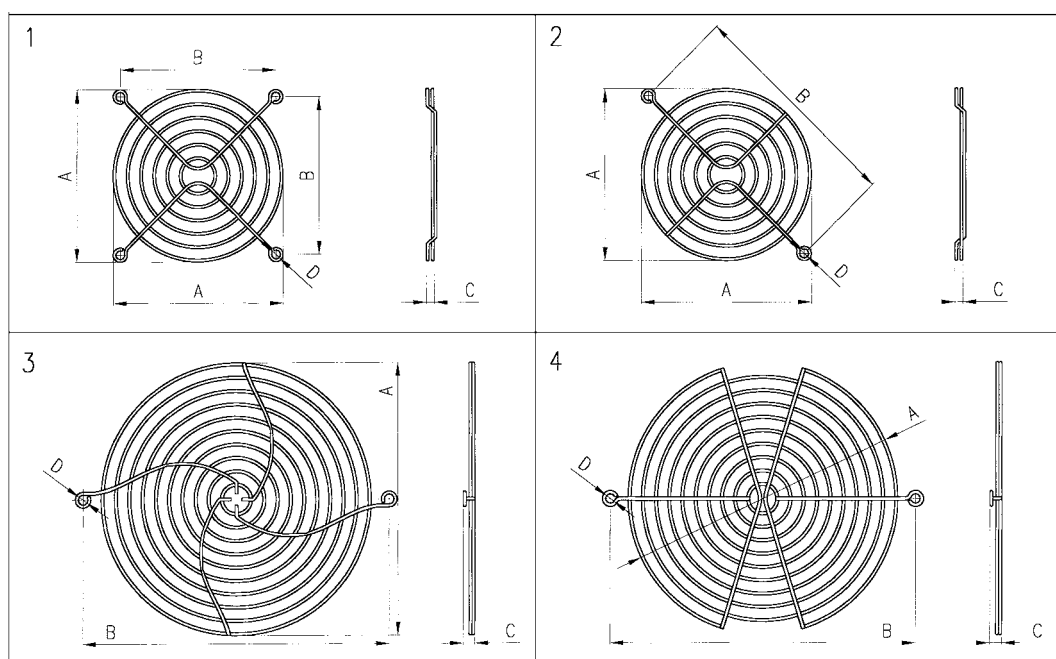
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METAL FINGER GUARDS



BENEFITS :

- Effective protection: the maximum space between each ellipse of the finger guard respects the values of the norms in use.
- Material: Nickel-plated wire (UL-CSA)



Part number	Model	Dimensions (mm)				Number of ellipses	Fans dimensions
		A	B	C	D		
9601-43	1	115,6	105	5,6	4,5	8	120 x 120
9901-43	1	90	82,5	5,6	4,6	6	92 x 92
12601-43	1	76,5	71,5	5,5	4,6	5	80 x 80
40-43	1	32	31,5	4	4	2	40 x 40
60-43	1	53,2	50	4,4	4,6	4	60 x 60
12001-43	3	143	162	6,35	5,1	10	172 x 150 - Ø 172
9901-43/2	2	90	117	5,6	4,6	6	92 x 92
12601-43/2	2	76,5	101	5,5	4,6	5	80 x 80
12001-43/01	4	154,4	162	6,45	4,8	10	Ø 172

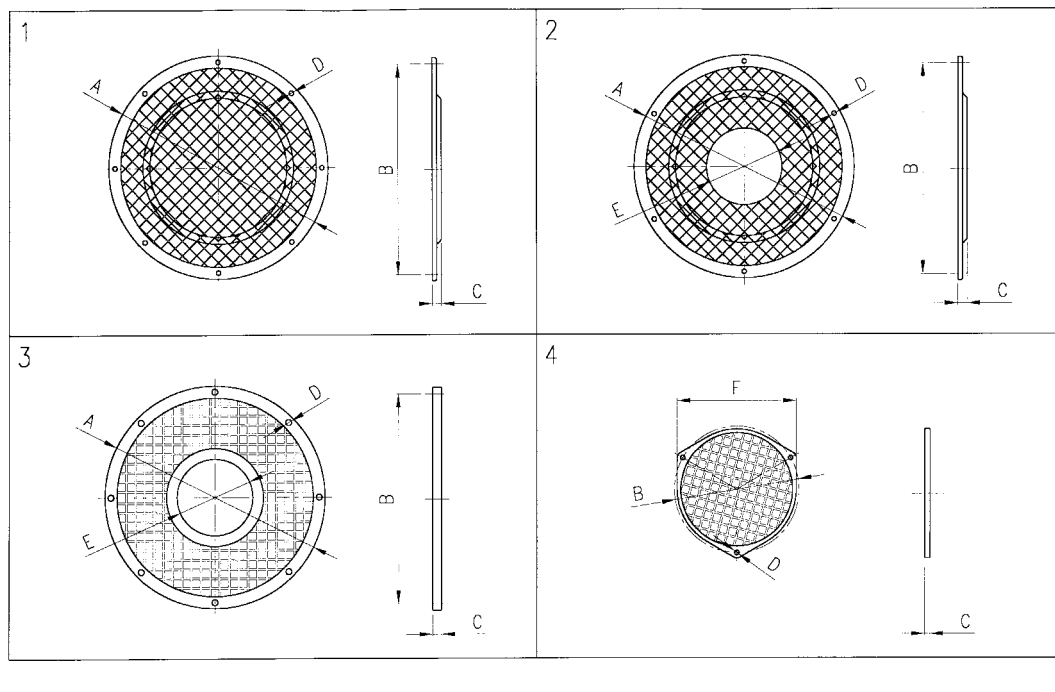
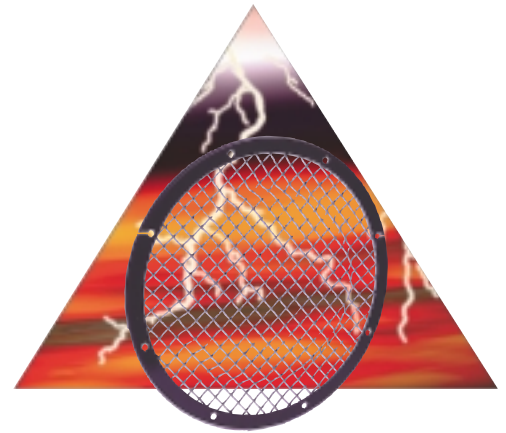
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Accessories

METAL FINGER GUARDS

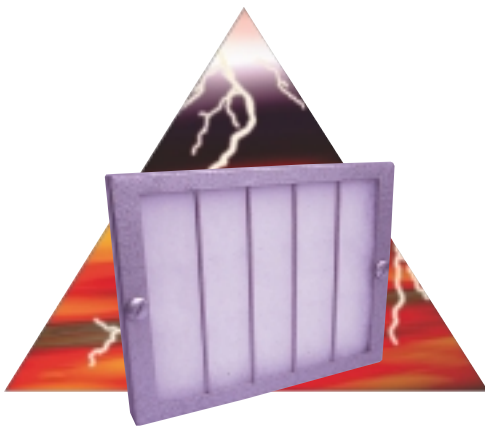
Each metal finger guard accommodates a particular fan series with 6 or 8 fixing holes.

- Very robust
- Effective protection: the dimension of the finger guard respects the values of the norms in use

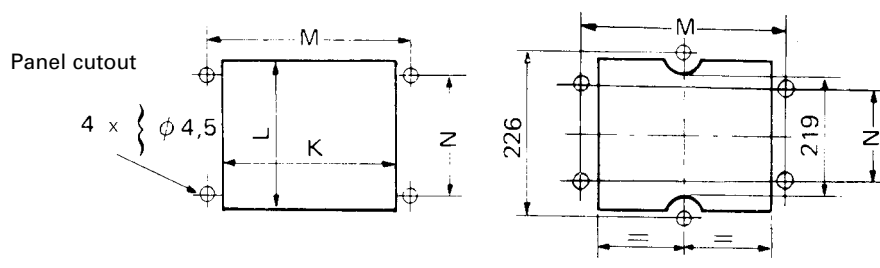
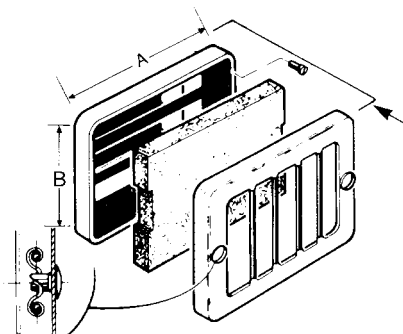
[illegible]

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FRONT PANELS (small models)

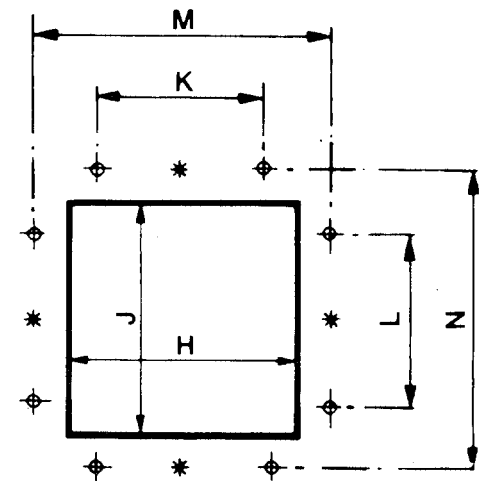


- Mounting on a panel, independently from the fan
- Mounting on an axial fan through an air-box (refer to metal mesh filter data sheet page 157)
- Mounting on a centrifugal fan through an air-box and an adapting part (refer to adapter part data sheet page 159)
- White filter pad ref. CAP 1515TG
- 75% in average gravimetric efficiency, pressure drop (1,5 ms - clean filter) 2,2 mm H₂O
- Effective protection against dust
- Improves reliability and reduces the risks of failure due to the presence of solid particles in the equipment
- Accommodates the filter pads; it consists of a filter case and a frame connected with 2 DZUS fixing screws, enabling a quick 1: 4 turn fixing. It is therefore easy to remote the filter pads for replacement when saturated
- The fluffy face of the filter pad should be placed towards the air inlet side.

[illegible]

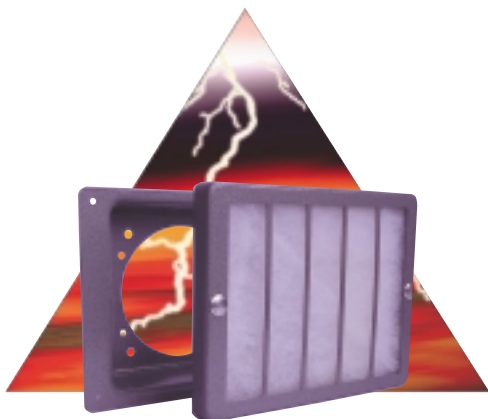
FRONT PANELS (big models)

-

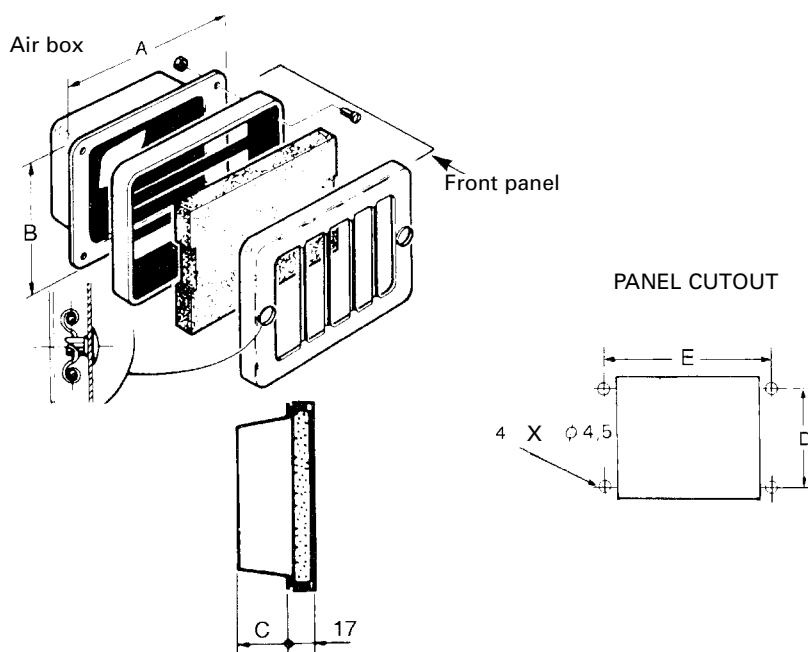


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METAL FILTERS (small models)



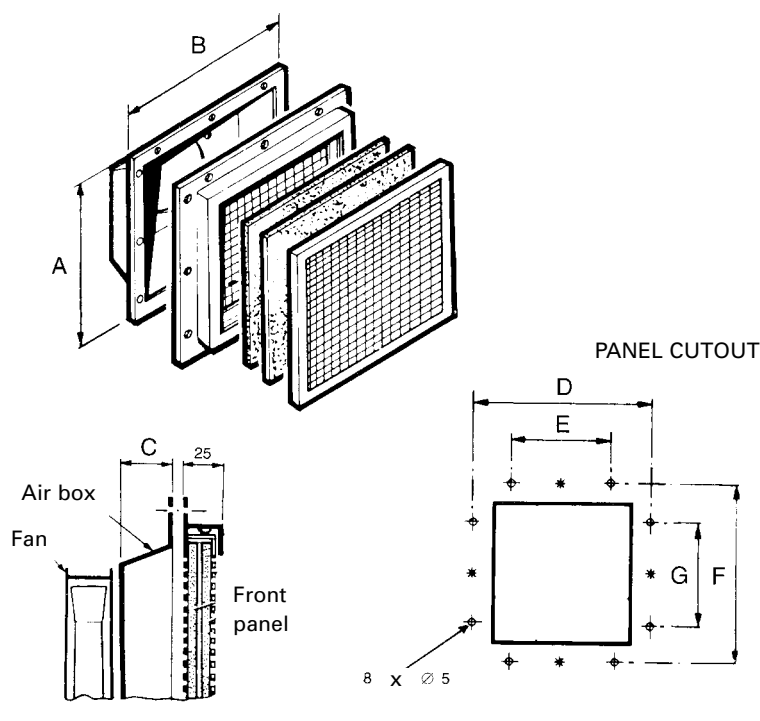
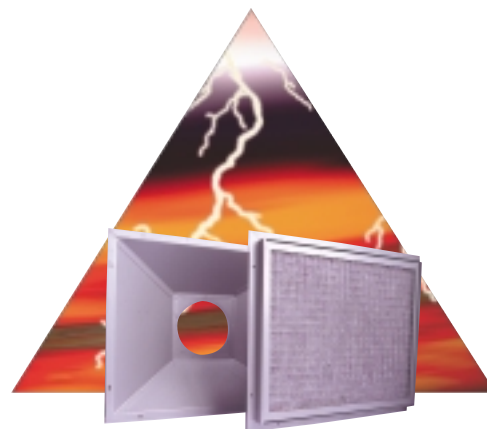
- Direct accommodation on axial fans
- Accommodation on centrifugal fans through an adapting part.; refer to the adapting part data sheet page...
- Effective protection against dust
- Improves reliability and reduces the risks of failure due to the presence of solid particles in the equipment
- White filter pad ref. CAP 1515TG, 75% in average gravimetric efficiency, pressure drop (1,5 m/s - clean filter) 2,2 mmH2O
- A complete filter assembly consists of an air-box, which can accommodate a fan and may be fastened to a wall, a removable front panel which accommodates the filter pads. The complete filter is sold with the gasket and fixing screws.



Part number	Dimensions (mm)					To be used on high performance fans N°	
	A	B	C	D	E	Axial fans series	Centrifugal fans series
80-152	203	157	45	136	180	80	581-582-607-608-609-620-622
80-302	337	157	45	136	314	80	
80-322	337	157	45	136	314	80 for 2 fans	
82-152	203	157	45	136	180	82	607-608-609-620-621-622 625-661-692-694
86-402	275	247	45	218	255	85-86	
86-702	432	247	48	218	412	85-86	
86-722	432	247	48	218	412	85-86 for 2 fans	
Axial fans dimensions							
96-152	203	157	45	136	180	120 x 120	
96-302	337	157	45	136	314	120 x 120	
96-322	337	157	45	136	314	120 x 120 for 2 fans	
120-402	275	247	45	218	255	172 x 150 and Ø 172	
120-702	432	247	48	218	412	172 x 150 and Ø 172	
120-722	432	247	48	218	412	172 x 150 and Ø 172 for 2 fans	

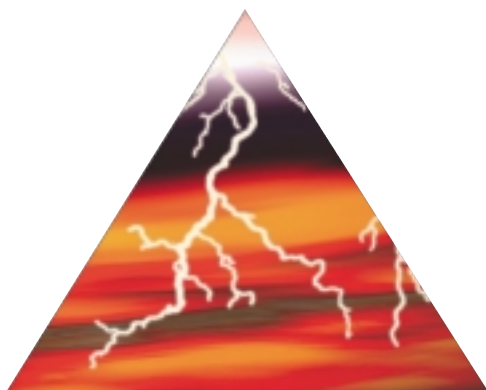
METAL FILTERS (big models)

- Effective protection against dust
- Improves reliability and reduces the risks of failure due to the presence of solid particles in the equipment
- White filter pad ref. CAP 1515TG, 75 % in average gravimetric efficiency, pressure drop (1,5 m/s - clean filter) 2,2 mmH₂O
- A complete filter assembly consists of an air-box, which can accommodate a fan and may be fastened to a wall, a removable front panel which accommodates the filter pads. The complete filter is sold with the gasket and fixing screws.



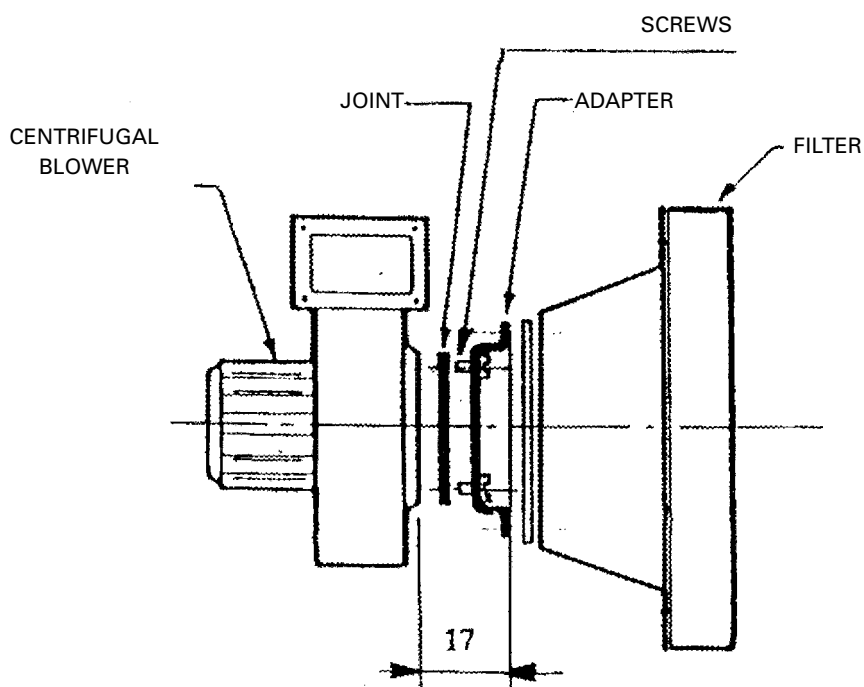
Part number	Dimensions (mm)							To be used on high performance fans
	A	B	C	D	E	F	G	Axial fans series
80-106	440	440	100	420	280	420	280	85-86
86-020	540	440	100	520	380	420	280	85-86
61-025	540	540	100	520	380	520	380	61-62
60-050	750	750	150	730	590	730	590	60-97
75-020	540	440	100					75
112-020	540	440	100					112

ADAPTERS



ADAPTERS FOR CENTRIFUGAL BLOWER

- These adapters parts allow to use the small model filters 80-152, 86-402 AND 86-702 and all our standard centrifugal fans without making any modification. They are directly mounted in the same fixing holes then the bell-mouth, at the air inlet of the fan.
- Made of die-cast aluminium. Grey glycerophthalic protective paint.
- Adapters are sold with gasket, fixing screws and mounting instructions.



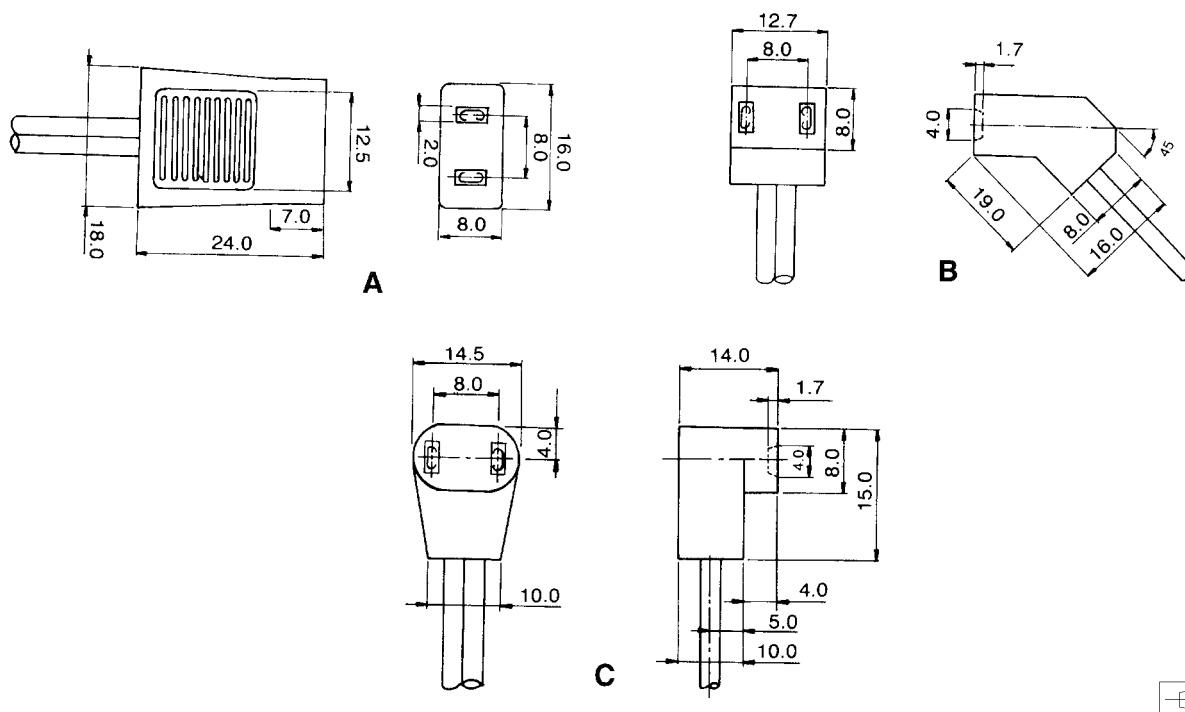
Part number	Filter reference	To be used on high performance centrifugal fans N°
		Series
58-180	80-152	581-582
60-780	80-152	607
60-786	86-402 ; 86-702	607
60-880	80-152	608-609
60-886	86-402 ; 86-702	608-609
62-080	80-152	620-622
62-086	86-402 ; 86-702	620-621-622
62-586	86-402	625
66-186	86-402 ; 86-702	661
69-286	86-402	692-694

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Accessories

PLUGS AND CABLES

- These different models will allow a maximum suitability to your mounting.
- These cords make the maintenance of fans easier
- They can be accommodated on the following fan series :
98-99-113-125-129-133-141-144-148-154-583 fitted with FASTON terminals 2,8 wide and 0,5 thick.



Part number	Model	Lenght
		L
9601-36/36	A	1000 mm + or - 100
9601-36	B	1000 mm + or - 100
9601-36/3M	B	3000 mm + or - 100
9601-36/60	B	1500 mm + or - 100
9601-36/90	C	1000 mm + or - 100

FIXING PARTS



Rubber mounts:

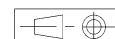
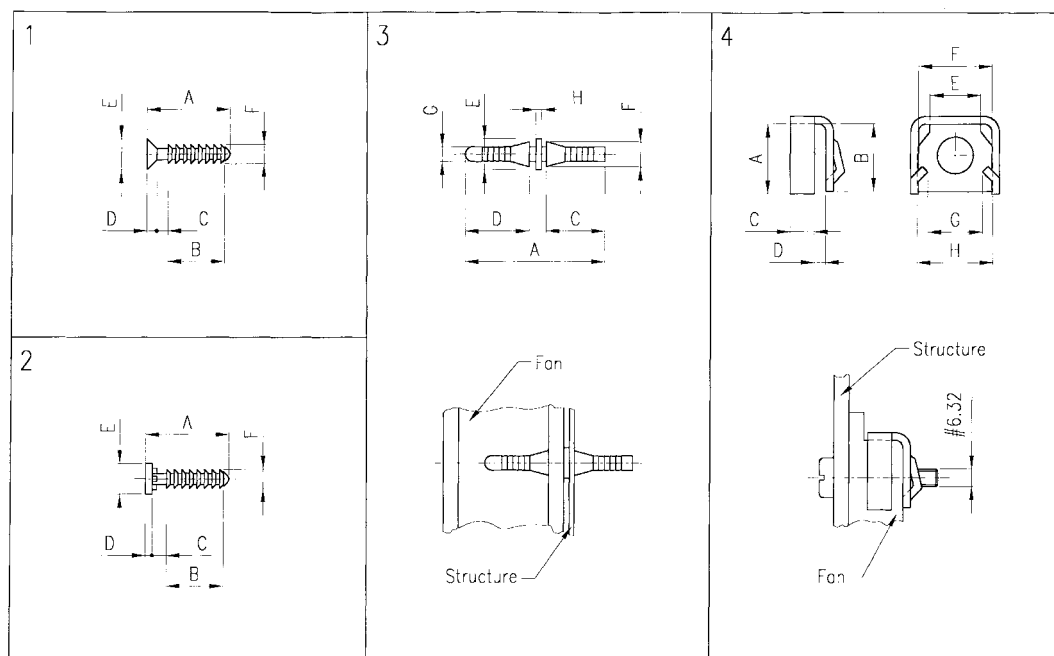
- Reduces electromechanical vibrations transmitted to the mounting
- Reduces the fitting time compared to a standard mounting with screw-bolt-washer.
- Eliminates problems due to an accidental unfastening

Our rubber mounts show other advantages:

- Excellent temperature resistance,
- High elasticity allowing an adaptation to the various mounting

Speed Nuts 6-32:

- Easy to mount
- Reduces the fitting time, making the mounting indicated below easier



Part number	Model	Dimensions (mm)								Fans series
		A	B	C	D	E	F	G	H	
ATF 5-17	1	17	10	3,2	2,2	Ø 8,0	Ø 5,0			
ATF 5-22	1	22	15	3,0	2,6	Ø 8,0	Ø 5,0			
ATC 5-17	2	17	10	3,6	1,8	Ø 8,0	Ø 5,0			
ATC 5-22	2	22	15	3,8	1,8	Ø 8,0	Ø 5,0			
AM-10	3	37		15,5	17	Ø 8,0	Ø 6,5	Ø 3,8	1,5	With brides Ø 3,5 to Ø 4,5 mm
SPEED NUTS 6-32	4	9,1	8,8	3,2	1,5	6,7	9,7	7,2	10	With brides Ø 4,3 to Ø 4,7 + housing with boss

CAPACITORS

It allows a three-phase operating fan to be connected as a single-phase fan; refer to the corresponding fan technical data sheet to know the suitable value.



GENERAL SPECIFICATIONS:

- Dielectrics: plated polypropylène
- Technology: non-inductive, aluminium tube outputs with terminals to be welded
- Applications: engine start, compensation, filtering

Models:

U_{RC} voltage: 1000 V, U_{RA} voltage: 400 V

Value	Dimensions (mm, ± 1)		
(μF)	Diameter (D)	Height (H)	Width (W)
0,15	25	7	3,2
0,22	25	67	3,2
0,33	25	67	3,2
0,47	25	67	3,2
0,68	25	67	3,2
1	25	67	3,2
1,5	25	67	3,2
2,2	35	67	3,2
3,3	40	67	3,2
3,9	40	67	3,2
4,7	40	94	3,2
6,8	46	94	3,2
10	50	94	3,2

Capacitors tolerances: $\pm 10\%$

ELECTRICAL SPECIFICATIONS:

Use temperature: $-25^{\circ}C + 85^{\circ}C$

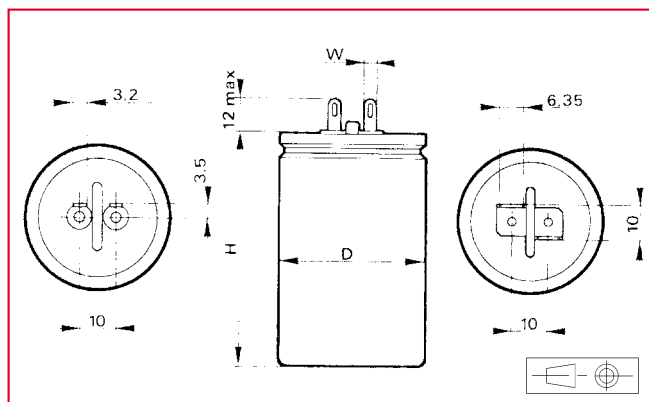
Maximum voltage: 1,5 UR

Maximum voltage: 1,5 UR

Models:

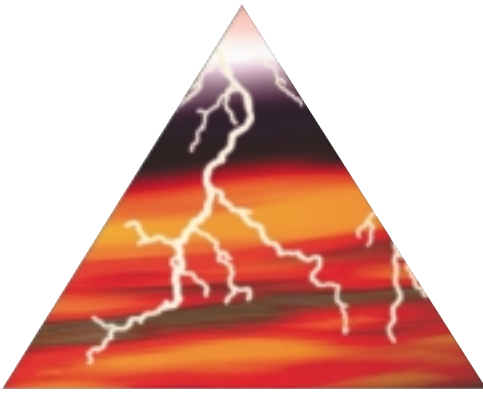
U_{RC} voltage: 630 V, U_{RA} voltage: 330 V

Value	Dimensions (mm, ± 1)		
(μF)	Diameter (D)	Height (H)	Width (W)
0,1	25	50	3,2
0,15	25	50	3,2
0,22	25	50	3,2
0,33	25	50	3,2
0,47	25	50	3,2
0,68	25	50	3,2
1	25	50	3,2
1,5	25	50	3,2
2,2	25	67	3,2
3,3	30	67	3,2
4,7	35	67	3,2
5,6	40	67	3,2
6,8	40	94	3,2
8,2	40	94	3,2
10	40	94	3,2
12	46	94	3,2
15	46	94	3,2
20	65	94	3,2
22	65	94	3,2
30	65	94	3,2
33	65	94	3,2
39	65	122	3,2
40	65	122	3,2



ALARM RELAYS

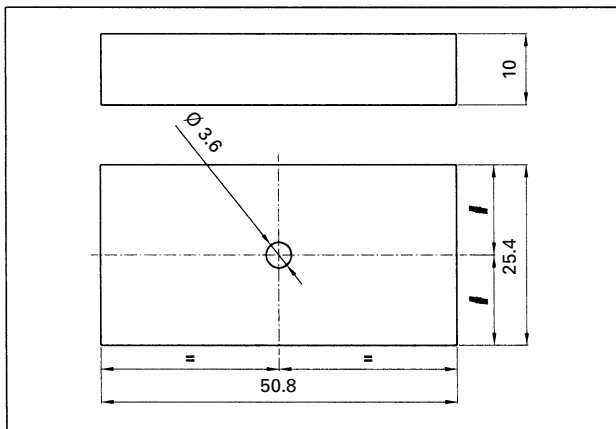
RA100 - RA101 - RA102 - RA103



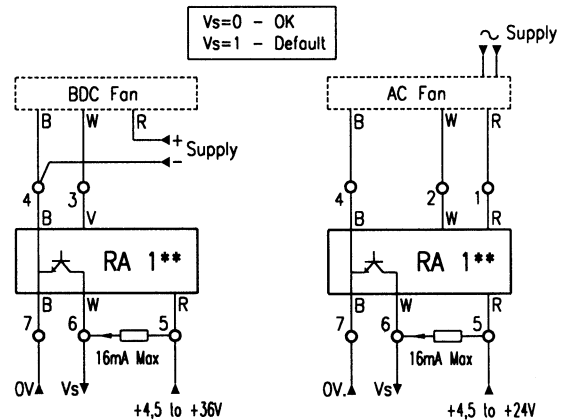
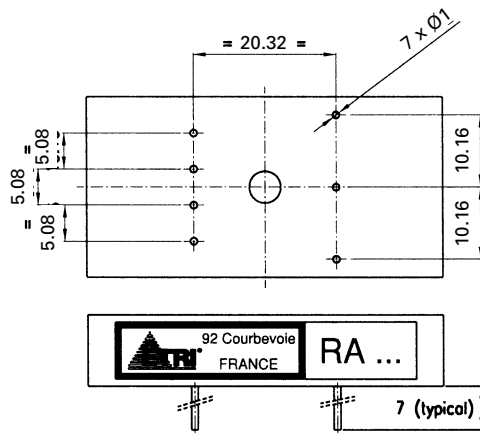
Desenganging frequency: RA100 - 15 Hz
 Desenganging frequency: RA101 - 54 Hz
 Desenganging frequency: RA102 - 15 Hz
 Desenganging frequency: RA103 - 54 Hz

Supply: 24 V DC
 Current: 4 mA max.
 Operating temperature: 0°C to + 70°C

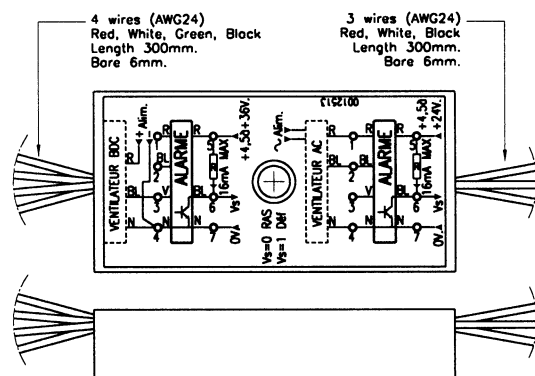
Wires output: RA100 - RA101
 Terminals output: RA102 - RA103.



TERMINALS OUTPUT



WIRES OUTPUT



Accessories

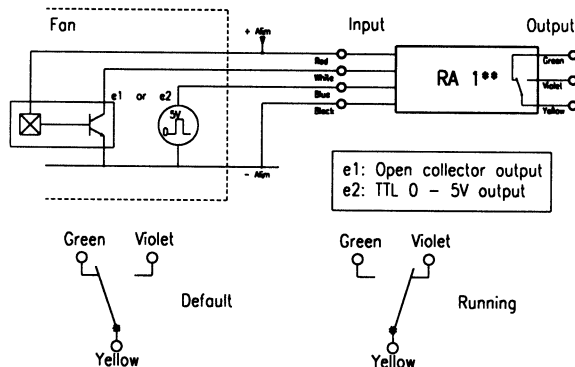
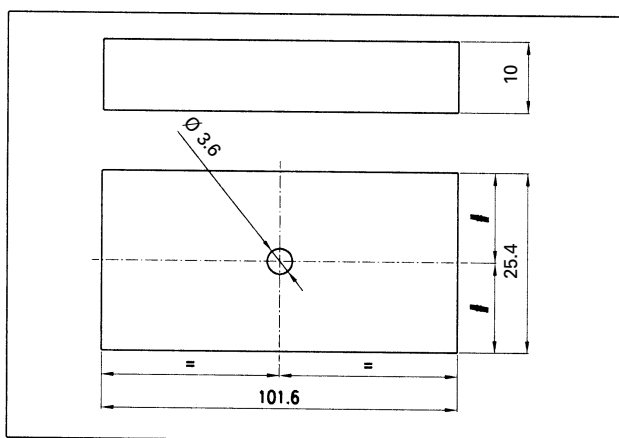
ALARM RELAYS

RA104 - RA105

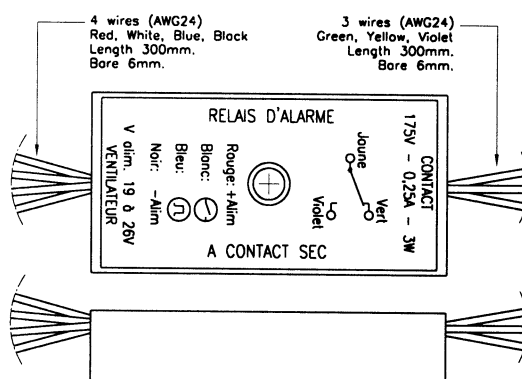
Desenganging frequency: RA104 - 25 Hz
Desenganging frequency: RA105 - 15 Hz

Supply: 24 V DC (19 V to 26 V)
Current: 4 mA for "Running" - 15 mA for "Default"
Operating temperature: 0°C to + 70°C

Contact:
Switch off power: 3 W
Max. voltage: 100 V
Max. current: 0,25 A
Contact resistance: 150 mΩ.



WIRES OUTPUT



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ALARM RELAYS

RA107

Desenganging frequency: 15 Hz

Supply: 220 V - 50/60 Hz

Operating temperature: 0°C to + 70°C

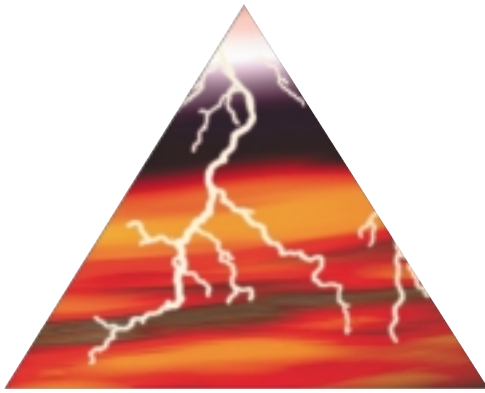
Contact:

Switch off power: 3 W

Max. voltage: 100 V

Max. current: 0,25 A

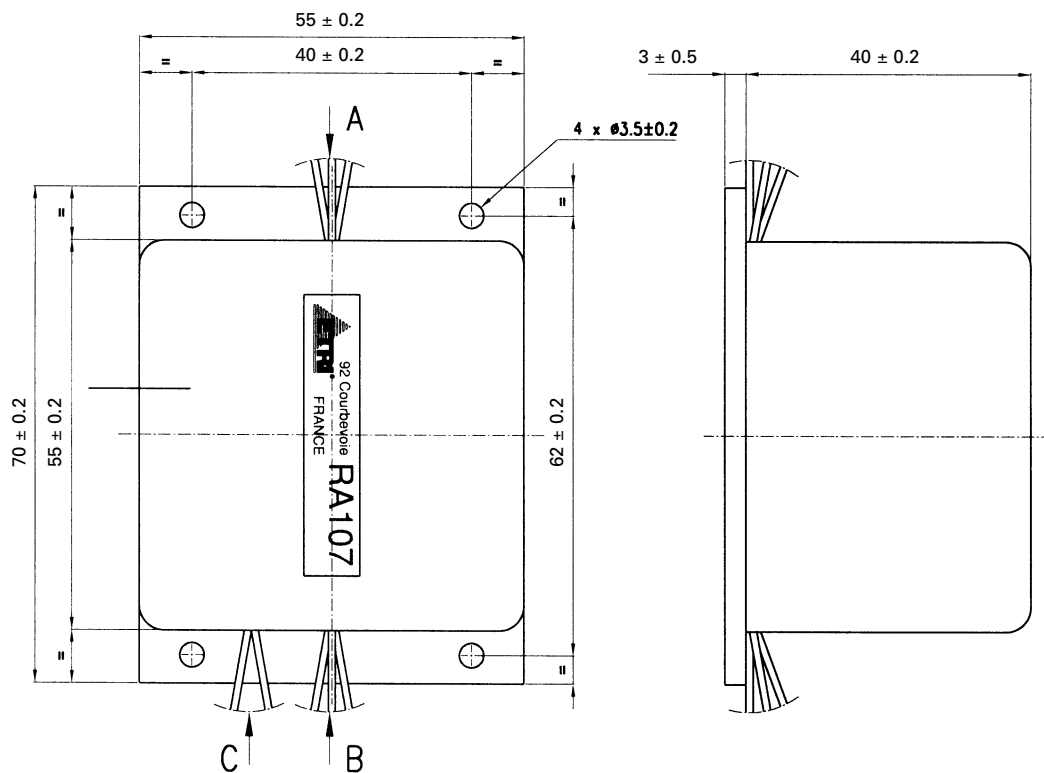
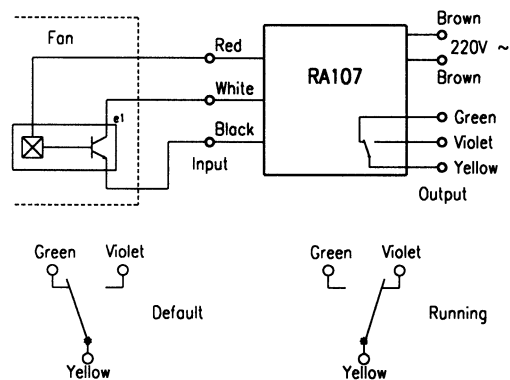
Contact resistance: 150 mΩ.



A: 3 wires (AWG24)
Red, White, Black
Length 300 mm - Bore 6 mm

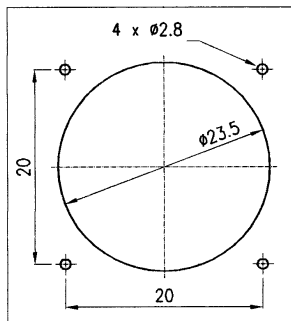
B: 3 wires (AWG24)
Green, Yellow, Violet
Length 300 mm - Bore 6 mm

A: 2 wires (AWG24)
Brown
Length 300 mm - Bore 6 mm

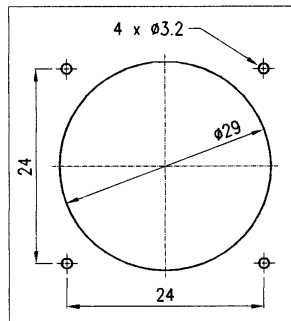


DC FANS

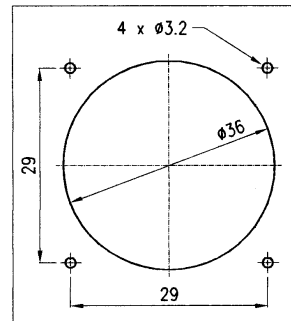
25 x 25 x 10



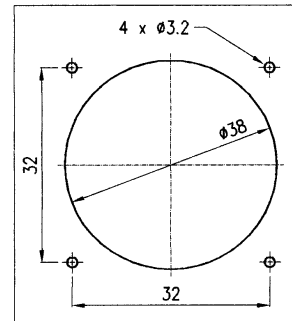
30 x 30 x 10



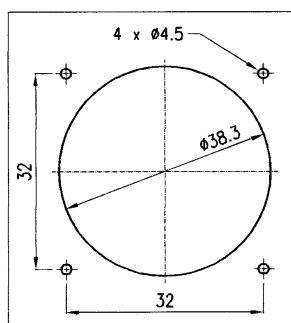
35 x 35 x 10



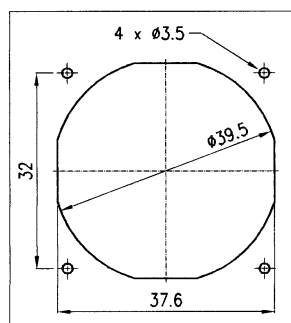
40 x 40 x 10



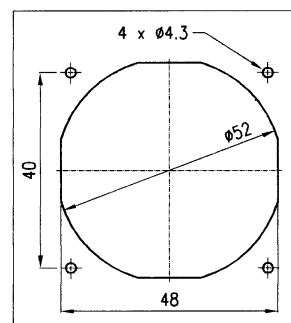
40 x 40 x 20 (280D)



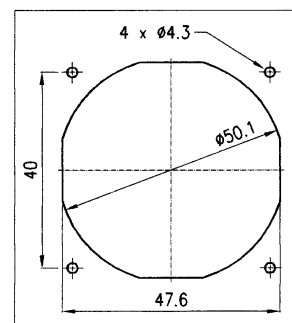
40 x 40 x 20 (380D)



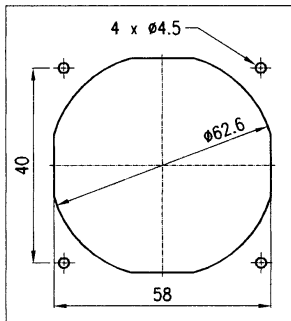
50 x 50 x 10 (373D)



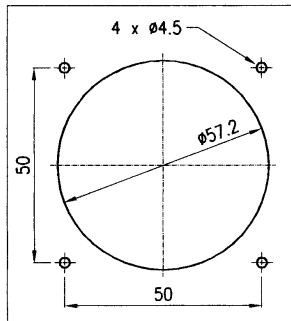
50 x 50 x 15



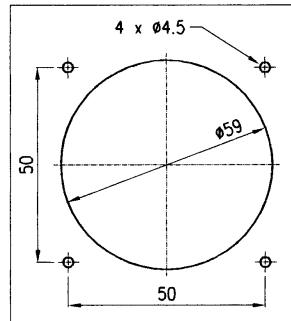
60 x 60 x 15



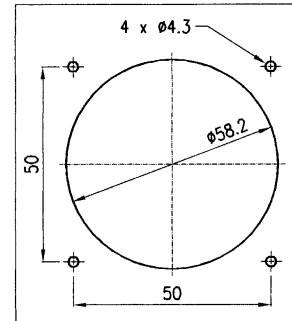
60 x 60 x 20 (272D)



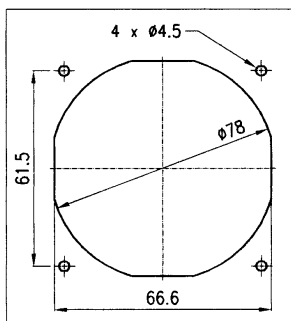
60 x 60 x 25



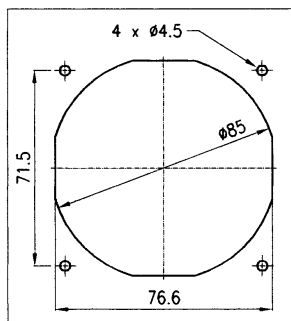
62 x 62 x 15



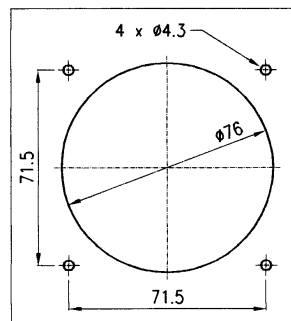
70 x 70 x 25



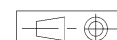
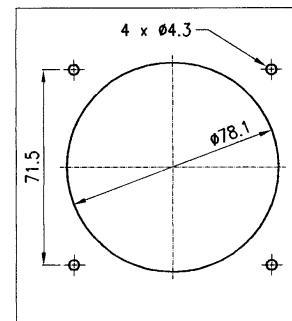
80 x 80 x 15



80 x 80 x 20

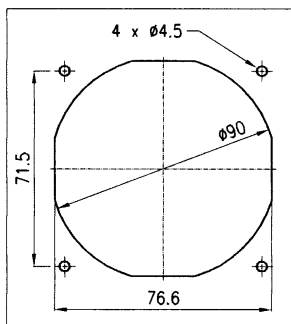


80 x 80 x 25 (146D)

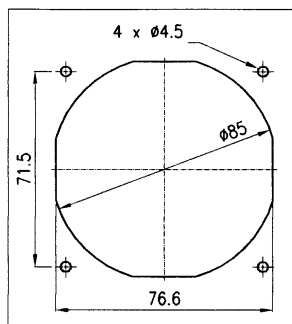


DC FANS

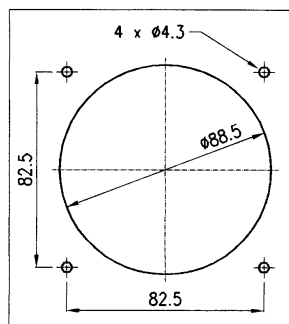
80 x 80 x 25 (246D)



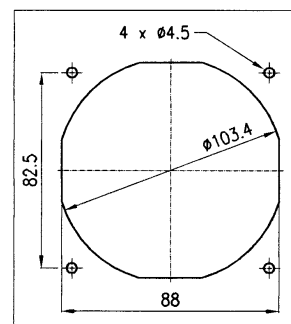
80 x 80 x 38



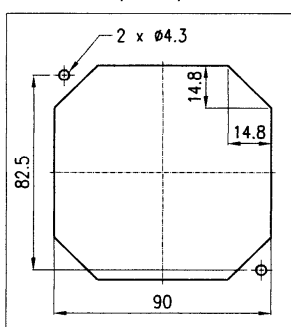
92 x 92 x 15



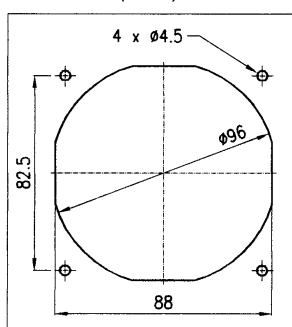
92 x 92 x 25



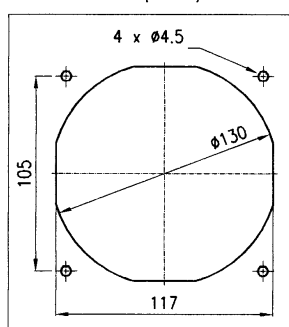
92 x 92 x 38 (99YW)



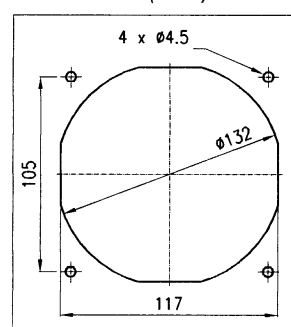
92 x 92 x 38 (341D)



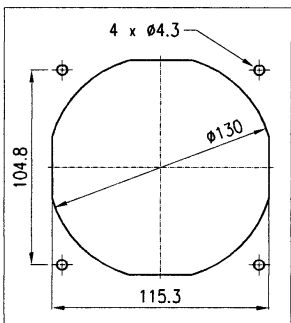
120 x 120 x 25 (298D)



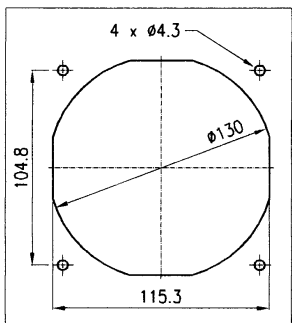
120 x 120 x 25 (398D)



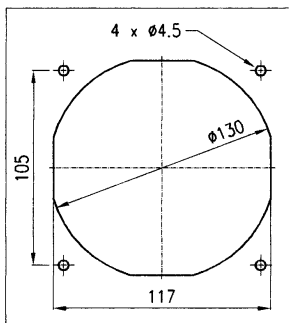
120 x 120 x 32



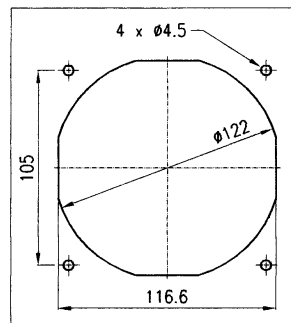
120 x 120 x 38 (125D)



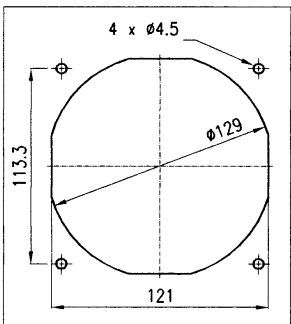
120 x 120 x 38 (235D)



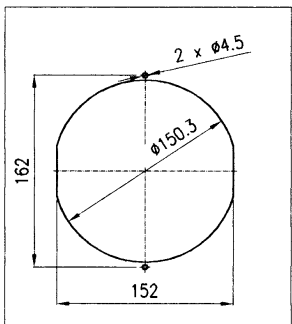
120 x 120 x 38 (338D)



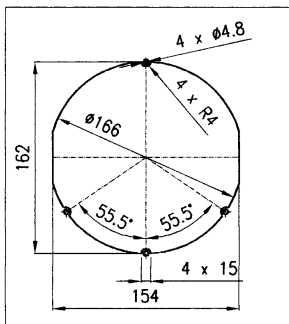
127 x 127 x 38



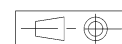
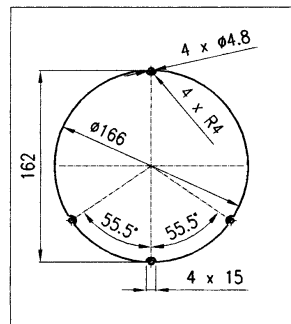
172 x 150 x 38



172 x 150 x 50



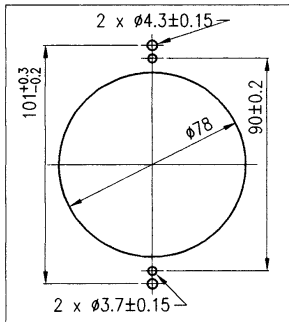
Ø172 x 50



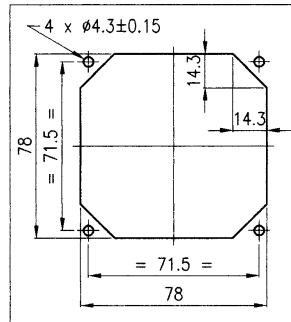
Non contractual document. Specifications are subject to change without notice. Pictures for information only. Edition N°1.

AC FANS

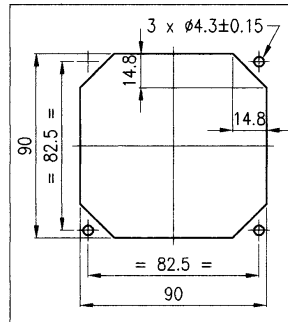
80 x 80 x 25



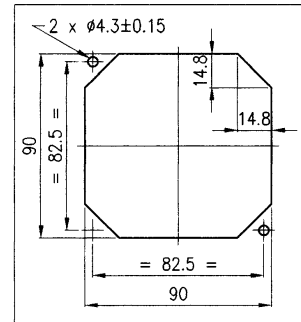
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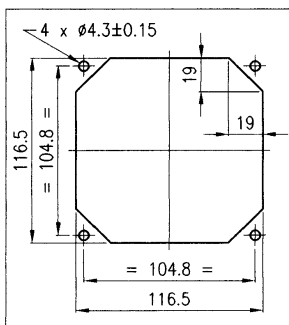
92 x 92 x 25



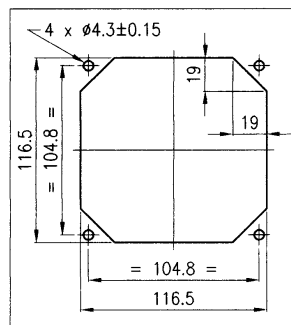
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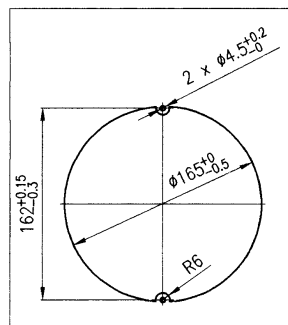
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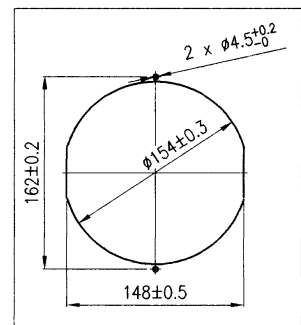
120 x 120 x 38



Ø172 x 50



172 x 150 x 38



UNITIES TABLES

STATIC PRESSURE			
mmH ₂ O	Pascal	Millibar	Inch of water
1	9,81	0,0981	0,0393

AIRFLOW			
l/s	m ³ /h	m ³ /mm	cfm
1	3,6	0,06	2,119

WEIGHT	LENGTH
1 pound (lb) = 453,592 g	1 inch (in) = 25,4 mm
1 ounce (oz) = 28,35 g	

TEMPERATURE CLASSES

CLASS	TEMPERATURE
A	105°C
E	120°C
B	130°C
F	155°C
H	180°C
200	200°C
220	220°C

INDEX OF PROTECTION

1 st NUMERAL		2 nd NUMERAL	
0	No protection	0	No protection
1	Protection against solid objects greater than 50 mm	1	Dripping water shall have no harmful effect
2	Protection against solid objects greater than 12 mm	2	Protected against dripping water when enclosure is tilted at 15°
3	Protection against solid objects greater than 2,5 mm	3	Protected against spraying water up to 60°
4	Protection against solid objects greater than 1,0 mm	4	Water splashed from any direction shall have no harmful effect
5	Ingress of dust is not totally protected, but does not enter in sufficient quantity to harm the	5	Water hosed against the enclosure shall have no harmful effect
6	No ingress of dust	6	Water from powerful jets or heavy seas shall have no harmful effect

Eg.: Specification IP 54

DUST: First figure "5": The fan is protected from harmful quantity of dust.

WATER: Second figure "4": The fan is protected from water jets from any direction (no harmful ingress of water).

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595DM	AC centrifugal blower 50/60 Hz	123
595DS	DC centrifugal blower	116
596DH	DC centrifugal blower	116
596DL	DC centrifugal blower	116
596DM	DC centrifugal blower	116
598DH	DC centrifugal blower	115
598DL	DC centrifugal blower	115
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607COV	DC centrifugal blower	119
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