

AC Axial fans

**Technical
Catalogue**



General data

Labelling

Labelling a fan as ErP2015-compliant indicates that it meets the minimum requirements set out in related Commission Regulation EU No 327/2011. The actual energy efficiency level of the fan used for the ErP rating is noted as $\eta_{stat A}$. In order to comply with the requirements contained in the ErP regulation, the fan's energy efficiency level must reach a specific minimum value (target energy level). Efficiency grade N is a parameter used in the calculation of the target energy efficiency as defined in Annex II of Commission Regulation EU No 327/2011. Any and all data pertaining to axial fan ErP classification refer to measurement data established using the Hidria axial fan equipped with a standard full bell mouth without a guard grille. Actual fan performance data including the efficiency level for each and every ErP compliant fan are published on the Hidria website www.hidria.com.

Aerodynamics and Acoustics

Measurement method

The 'characteristic curve' diagram shows the pressure increase Δp_s in Pa as a function of the volume flow rate q_V in m^3/h . The specified performance data meets accuracy class 3 as defined with DIN 24 166 (ISO13348), and applies to the rated data and air performance curves at the rated voltage, an air density of 1.2 kg/m^3 and a 20°C ambient temperature. The continuous line in the characteristic map represents the recommended operating range for axial fans.

Fan test bench

The fan characteristic curves are determined on a combined ventilation and sound reverberation room test bench.

The characteristic curves are measured in compliance with DIN EN ISO 5801.

The sound power levels are measured in a reverberation room in compliance with DIN EN ISO 3743. The fan is attached to the measuring chamber with a free (air) intake and (air) outlet (installation type A in compliance with DIN EN ISO 5801). Unless otherwise indicated, this catalogue specifies the intake side A-evaluated sound power levels LWA. The standard measurements are carried out without the need for additional parts, e.g. a guard grille. The A-weighted sound power level is the standard variable used to assess the sound characteristics of technical equipment.

LVD and EMC compliance

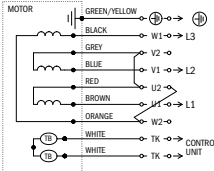
The Electromagnetic Compatibility limits set in Directive 2004/108/EC ensure that electrical and electronic equipment does not generate, or is not affected by, electromagnetic disturbance. EMC compliance of the fan arrangement has to be established on the final appliance as different mounting configurations can result in changed EMC properties.

Hidria fans are designed and produced in line with the Low Voltage Directive (LVD) 2006/95/CE, meaning that the health and safety risks when operating these fans in standardised power networks are negligible.

General notes

The information contained in this catalogue was prepared to the best of our ability and does not absolve the user from their duty to verify the suitability of the products with respect to the intended application. Hidria reserves the right to make design changes for the purpose of continuous performance and/or safety improvement.



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$\frac{V_1}{V_2} = \frac{n_1}{n_2}$ $\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$ $\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$ $L_{wh2} = L_{wh1} + 50 \log \left(\frac{n_2}{n_1}\right)$	07. Appendix	132	APPENDIX

01

AC Axial fans – Sickled blades



AC AXIAL FANS –
SICKLED BLADES

AC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)

AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

AC Axial fans

■ Electrical connection and motor

AC Axial fans are driven by single-phase or three-phase AC (Alternating Current) external rotor induction motors. The motors are integrated into the fan hub. The rated voltage for a three-phase power supply is 400 V and for single-phase AC motors it is 230 V. Single-phase or three-phase AC motors are suitable for 400 V $\pm 10\%$ or 230 V $\pm 10\%$, as well as 50/60 Hz. All other voltage types are available as customised solutions.

■ Motor connection

Mains & control connections are made via a terminal box or outgoing connection cable as shown in the dimensional drawings.

■ Terminal box and connection cable

Terminal boxes are made of shock-proof and weather-resistant plastics. Heat- and UV-resistant halogen-free multicore cables are used, marked by a colour code or connection designations as labelled on the terminal block. The cable construction complies with VDE 0282 Part 804 and is suitable for operating voltages of up to 400 V for single-phase products and 690 V for three-phase products.

■ Speed controls

Hidria AC fans are suitable for operation with or without one of the Variable Speed Drive (VSD) units such as a frequency converter, triac controller, soft start or autotransformer. When a VSD is in use, special caution needs to be taken to verify that the temperature rise is in line with the motor insulation class (B or F) limits and that the EMC requirements of the final appliance are met. It is recommended to use a Sine Wave Filter attached between the frequency converter and AC fan in order to assure the best acoustic and lifetime performance of the fan. Please follow the safety, installation and maintenance instructions of the VSD used when applied to Hidria fans.

■ Installation and usage information

For the installation, maintenance and safe use of AC axial fans, please refer to the user manual.

■ Materials and corrosion protection

Hidria AC Axial fan impellers are made of high-performance PA or PP composite material, aluminium or steel. The impeller is pressed onto the rotor. Some axial fans have stamped steel or aluminium blades. Such blades are riveted or screwed onto the rotors of the external rotor motor. The motor housing is made of high-pressure, die-cast aluminium alloy. Additional painting is applied when high-corrosion protection is requested. Protection grids are made of steel and coated to meet resistance to corrosion as set by ISO 12944-2 class C3 (medium). A higher corrosion resistance level is available on request.

■ Operating conditions and product life safety

The fans may only be operated when installed as intended and when safety is ensured by use of safety equipment according to DIN EN 294 resp. ISO13852 (DIN EN ISO 12100) or by other protection measures defined in the user manual.

Safety approvals

Depending on the product, Hidria fans comply with one or more of the following standards: EN 60335-1, EN 61800-5-1 and EN 60034-1. The majority of fans can be supplied in a CE, UL/CSA, CCC, SASO and/or EAC approved design.

Installation orientations

Axial fans are intended to be installed with the rotor in a horizontal position or with the rotor at the bottom of the fan (vertical position with the connection box or cables on the top). The lower condensation drain hole must be open when the fan is installed vertically, that is with the rotor at the bottom. With a horizontal mounting position, condensate can escape via the gap between the stator and rotor. Installation

with the rotor at the top (connection box or cables at the bottom) is only available on request.

Operating mode

Continuous operation (S1)

Resistance to water, dust and moisture

The majority of axial fans are resistant to the presence of water, dust and moisture as defined by class IP44 or IP 54 (IEC 60529, IEC60034, IEC60335).

Ambient conditions

If not instructed differently, the fans can be subjected to the following conditions:

- placed outdoors (rain, snow, UV radiation)
- working ambient temperatures of between -30 °C (-40 °C) and +70 °C
- storage temperatures: -40 °C to +80 °C

Product life

By utilising lifetime-maintenance-free bearings, our axial fans are maintenance-free for the entire lifetime of approximately 30,000–40,000 hours for standard applications and environmental conditions.

Contact protection

The preferred 'protective construction' used on axial fans is a guard grid. Depending on the airflow direction, the guard grid is located on the intake or pressure side of the fan. The 'Accessories' section contains separate guard grids, which can be positioned on the pressure or intake side of the fan as required and depending on the installation situation, to meet the safety requirements set out in DIN EN ISO 13857 defining safety distance requirements to prevent upper limbs from getting into hazardous areas. Be aware that the use of guard grids results in increased resistance to the conveyed airflow, which manifests in additional pressure loss.



Stamped steel blades (type 18H, 30H)
Diameters: 300-350 mm

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Stamped aluminium blades (type 30H)
Diameters: 450-630 mm

16-29

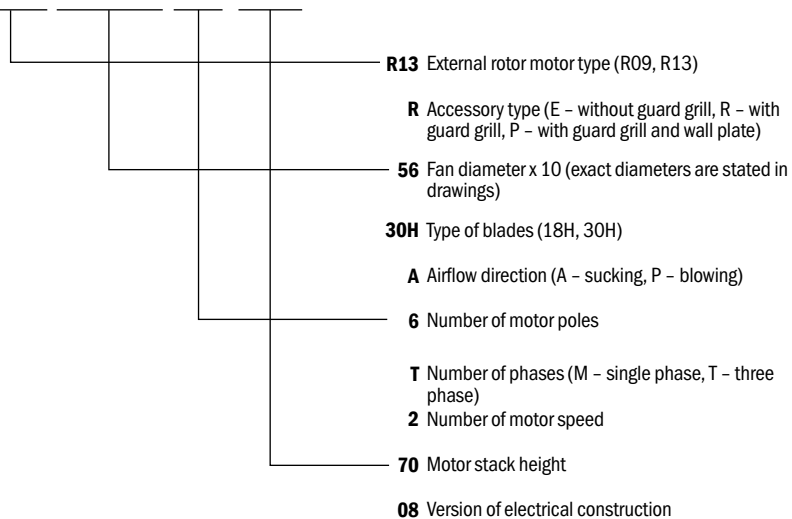


Die-cast aluminium blades (type 30H)
Diameters: 630-800 mm

30-34

Example of type key:

R13R-5630HA-6T2-7008



Diameter:

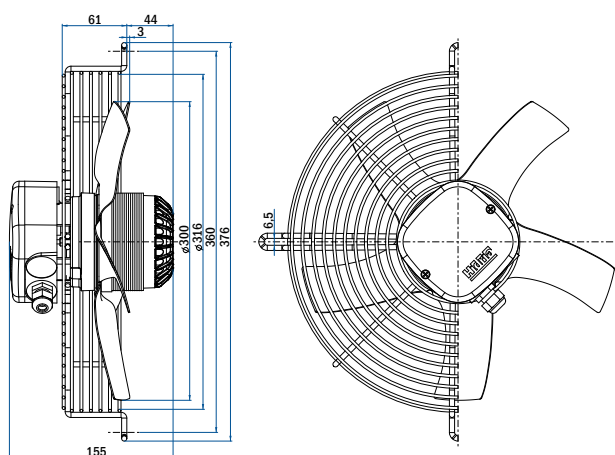
300 mm

R09_-3018H_-2M-4248



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3018HA-2M-4248	0309-4-1093	3.5
Blowing	R09R-3018HP-2M-4248	0309-4-1094	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3018HA-2M-4248	On request	
Blowing	R09P-3018HP-2M-4248	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3018HA-2M-4248	On request	
Blowing	R09E-3018HP-2M-4248	On request	

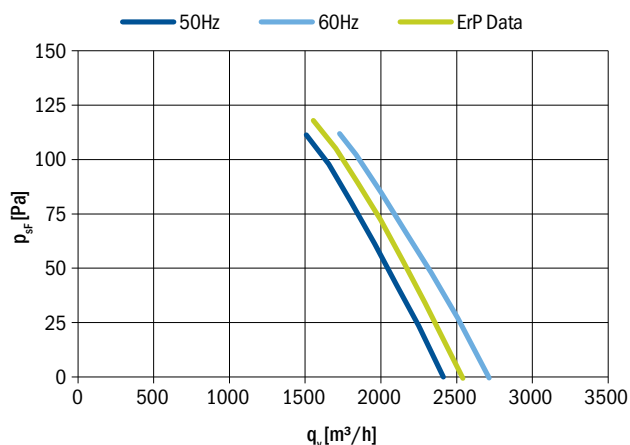
Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	140/190 W
Rated current	0.62/0.83 A
Rated speed	2590/2700 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55/40 °C
Sound power level A weighted	83/87 dB (A)
Condensator	5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.2
Variable speed drive	NO
Power input	169 W
Air flow	1553 m³/h
Pressure drop	118 Pa
Speed	2585 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

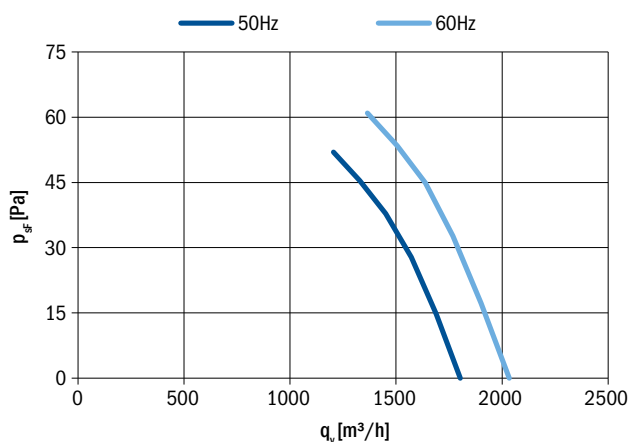
Standards compliance See introduction page

R09_-3030H_-4M-2543**Diameter:****300 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	65/90 W
Rated current	0.30/0.40 A
Rated speed	1400/1500 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	66/71 dB (A)
Condensator	2 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:**Is not subject to the EU regulation 327/2011.**

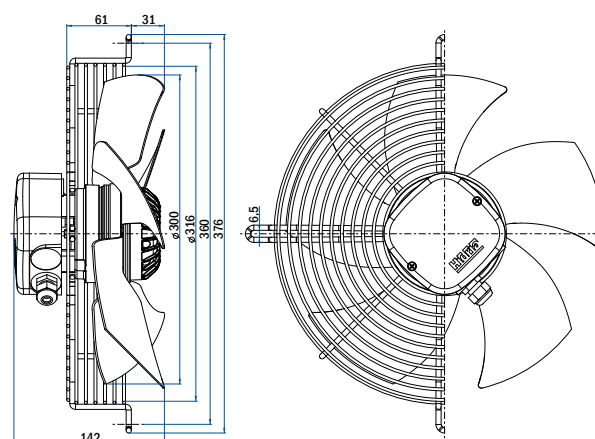
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3030HA-4M-2543	0309-4-1112	3.0
Blowing	R09R-3030HP-4M-2543	0309-4-1050	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3030HA-4M-2543	0309-4-1025	4.5
Blowing	R09P-3030HP-4M-2543	0309-4-1078	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3030HA-4M-2543	On request	
Blowing	R09E-3030HP-4M-2543	On request	

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
 Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

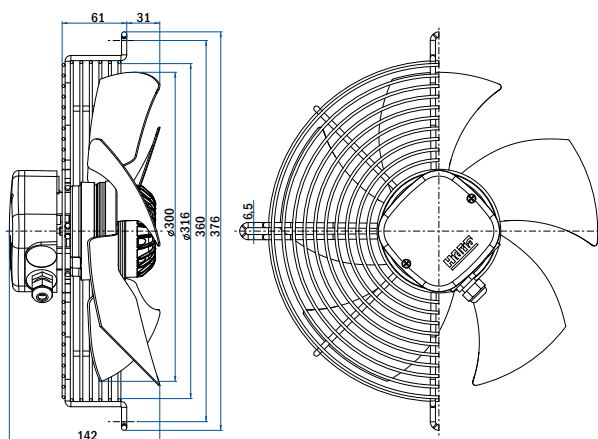
300 mm

R09_-3030H_-4T-2545



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3030HA-4T-2545	0309-4-1038	3.0
Blowing	R09R-3030HP-4T-2545	0309-4-1143	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3030HA-4T-2545	On request	
Blowing	R09P-3030HP-4T-2545	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3030HA-4T-2545	On request	
Blowing	R09E-3030HP-4T-2545	On request	

Nominal data according to standard EN 60335:

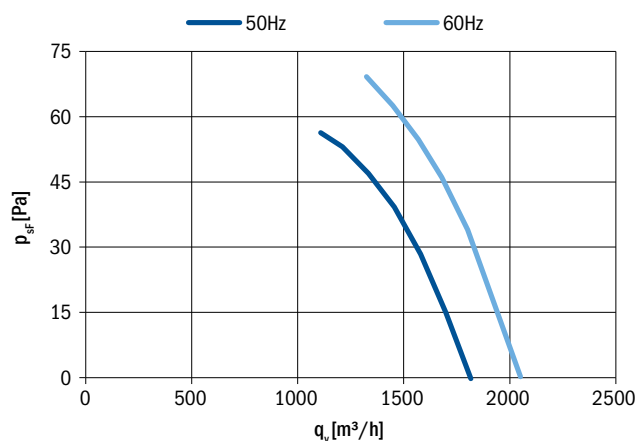
Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	75/85 W
Rated current	0.20/0.35/0.17/0.30 A
Rated speed	1370/1550 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	67/72 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0049 See section
Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R09_-3130H_-4M-3509

Diameter:

315 mm

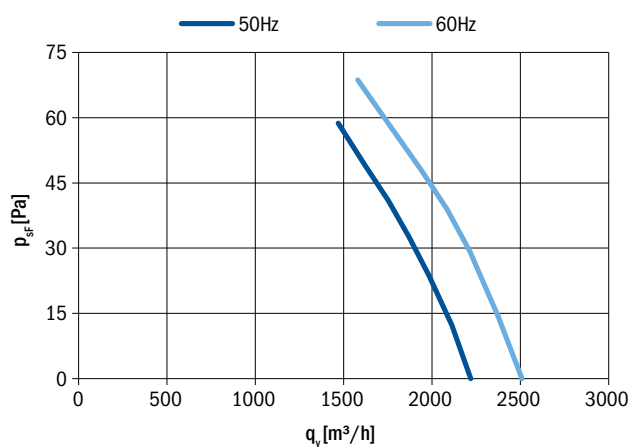
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	90/120 W
Rated current	0.40/0.55 A
Rated speed	1350/1500 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/60 °C
Sound power level A weighted	68/72 dB (A)
Condensator	3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic

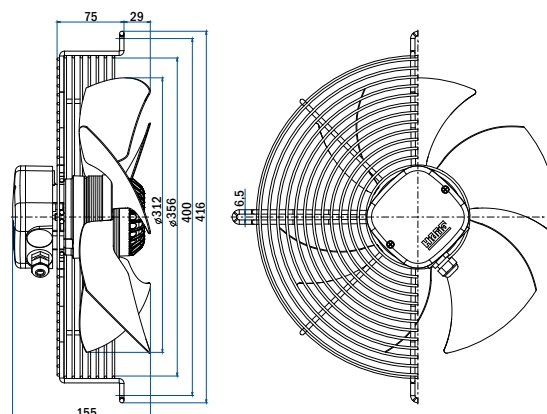


Fan characteristic measured in full bell mouth with guard grill.



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3130HA-4M-3509	0309-4-1002	3.3
Blowing	R09R-3130HP-4M-3509	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3130HA-4M-3509	0309-4-1015	4.5
Blowing	R09P-3130HP-4M-3509	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3130HA-4M-3509	On request	
Blowing	R09E-3130HP-4M-3509	On request	

General notes

Connection diagrams:

Sucking	0301-1-0043	See section
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Sucking	0301-1-0043	See section
Blowing	0301-1-0044	Connection diagrams

Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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Diameter:

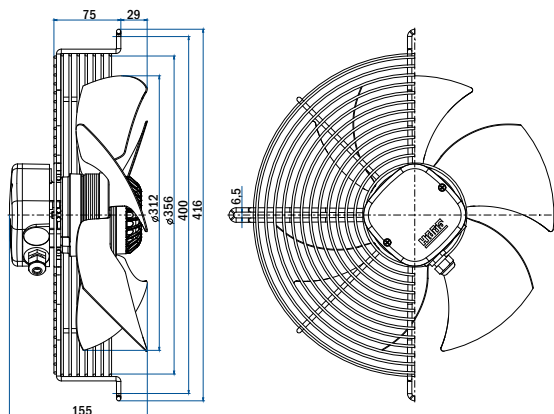
315 mm

R09_-3130H_-4T-3524



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3130HA-4T-3524	0309-4-1039	3.4
Blowing	R09R-3130HP-4T-3524	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3130HA-4T-3524	On request	
Blowing	R09P-3130HP-4T-3524	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3130HA-4T-3524	On request	
Blowing	R09E-3130HP-4T-3524	On request	

Nominal data according to standard EN 60335:

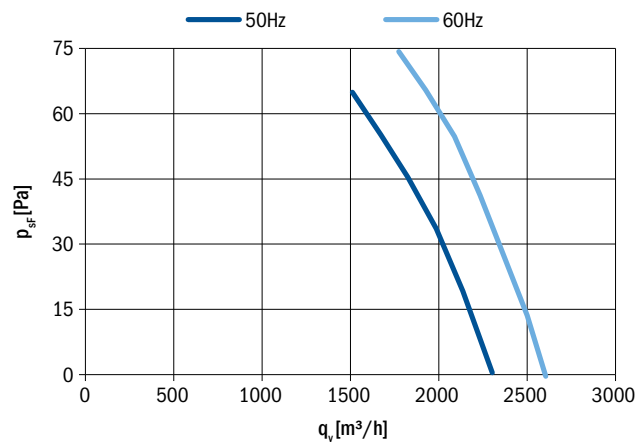
Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	100/120 W
Rated current	0.23/0.41/0.22/0.39 A
Rated speed	1340/1490 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	69/73 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0049 See section
Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

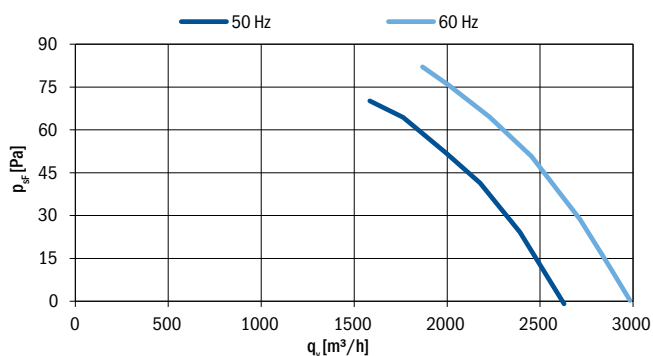
Standards compliance See introduction page

R09_-3330H_-4M-4259**Diameter:****330 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	120/150 W
Rated current	0.55/0.67 A
Rated speed	1350/1510 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	70/74 dB (A)
Condensator	4 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:**Is not subject to the EU regulation 327/2011.**

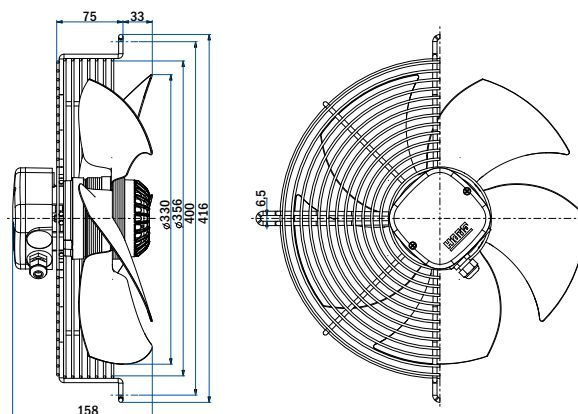
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3330HA-4M-4259	0309-4-1127	3.5
Blowing	R09R-3330HP-4M-4259	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3330HA-4M-4259	On request	
Blowing	R09P-3330HP-4M-4259	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3330HA-4M-4259	On request	
Blowing	R09E-3330HP-4M-4259	On request	

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
 Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

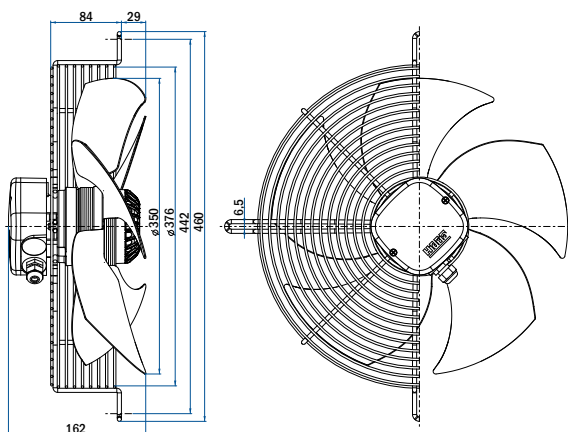
350 mm

R09_-3530H_-4M-4237



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3530HA-4M-4237	0309-4-1000	3.7
Blowing	R09R-3530HP-4M-4237	0309-4-1032	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3530HA-4M-4237	0309-4-1013	6.2
Blowing	R09P-3530HP-4M-4237	0309-4-1122	

Fan without guard grill

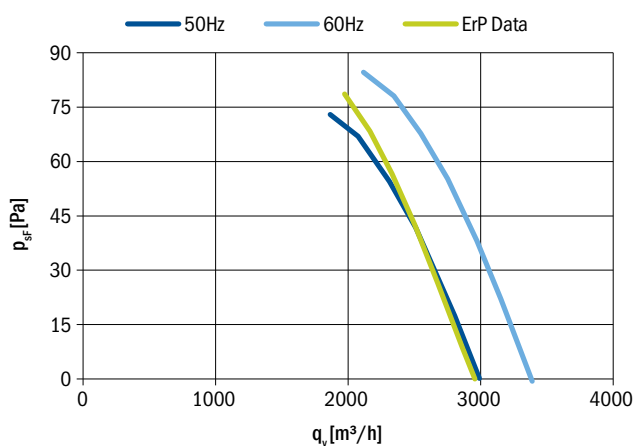
Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3530HA-4M-4237	On request	
Blowing	R09E-3530HP-4M-4237	On request	

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	130/165 W
Rated current	0.60/0.72 A
Rated speed	1290/1380 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	72/75 dB (A)
Condensator	4 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.7
Variable speed drive	NO
Power input	140 W
Air flow	1975 m³/h
Pressure drop	79 Pa
Speed	1333 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

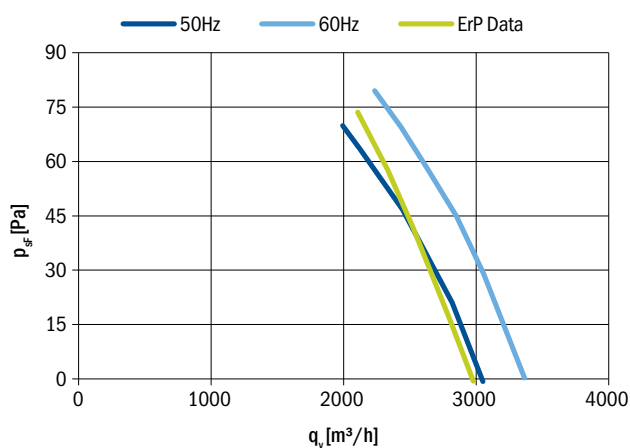
Standards compliance See introduction page

R09_-3530H_-4T-4258**Diameter:****350 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	150/192 W
Rated current	0.30/0.57/0.33/0.57 A
Rated speed	1330/1460 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65/70 °C
Sound power level A weighted	72/75 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.2
Variable speed drive	NO
Power input	141 W
Air flow	2107 m³/h
Pressure drop	74 Pa
Speed	1332 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0049 See section

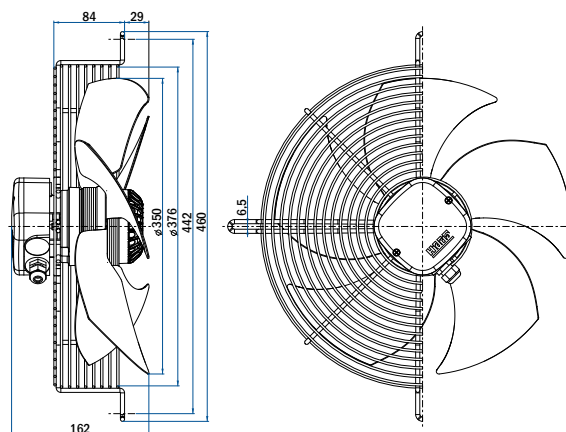
Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3530HA-4T-4258	0309-4-1023	3.7
Blowing	R09R-3530HP-4T-4258	0309-4-1048	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3530HA-4T-4258	On request	
Blowing	R09P-3530HP-4T-4258	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3530HA-4T-4258	On request	
Blowing	R09E-3530HP-4T-4258	On request	

Diameter:

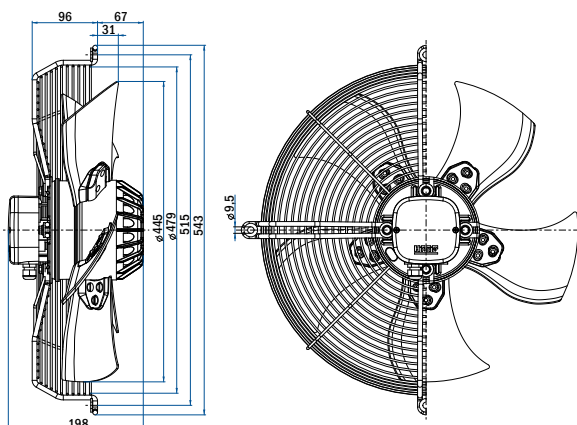
450 mm

R13_-4530H_-4M-5066



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530HA-4M-5066	0313-4-1082	10.0
Blowing	R13R-4530HP-4M-5066	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530HA-4M-5066	On request	
Blowing	R13P-4530HP-4M-5066	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530HA-4M-5066	On request	
Blowing	R13E-4530HP-4M-5066	On request	

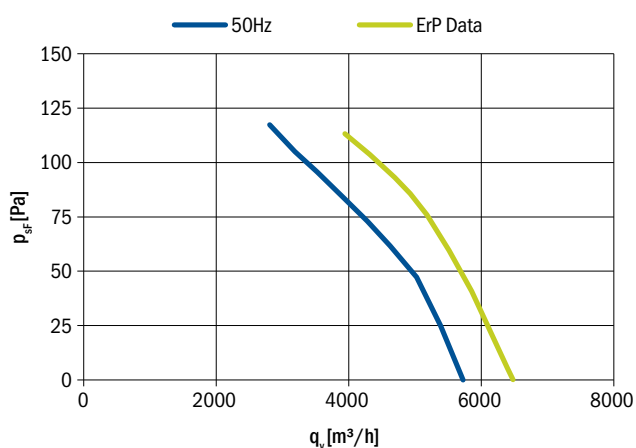
Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	400 W
Rated current	1.80 A
Rated speed	1400 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	72 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	27.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.1
Variable speed drive	NO
Power input	442 W
Air flow	4695 m³/h
Pressure drop	93 Pa
Speed	1370 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

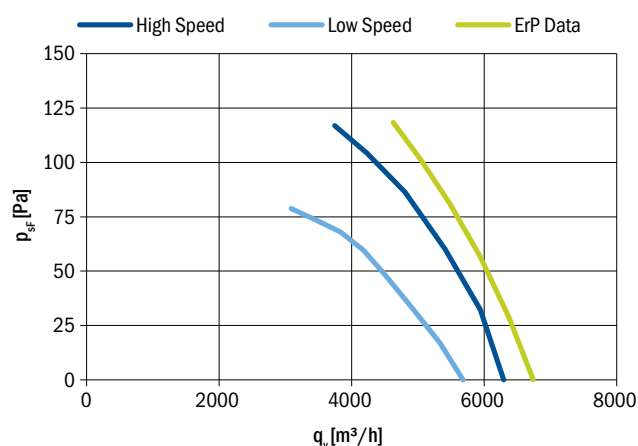
Connection diagrams:		
Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-4530H_-4T2-5059**Diameter:****450 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	465/330 W
Rated current	0.95/0.50 A
Rated speed	1400/1260 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	73/69 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.3 %
Measurement category	A
Efficiency category	static
Efficiency grade N	37.5
Variable speed drive	NO
Power input	500 W
Air flow	4631 m³/h
Pressure drop	118 Pa
Speed	1372 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

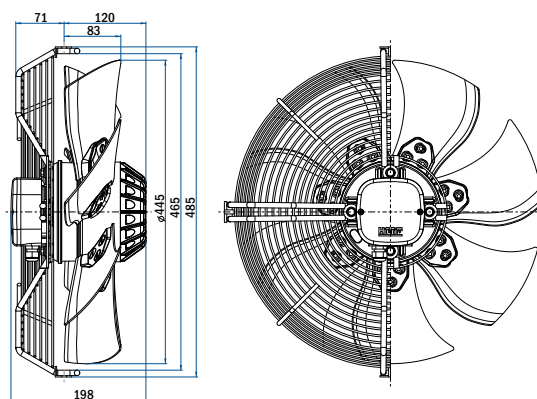
Sucking 0301-1-0033 See section
 Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530HA-4T2-5059	0313-4-1152	11.0
Blowing	R13R-4530HP-4T2-5059	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530HA-4T2-5059	On request	
Blowing	R13P-4530HP-4T2-5059	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530HA-4T2-5059	On request	
Blowing	R13E-4530HP-4T2-5059	On request	

Diameter:

450 mm

R13_-4530H_-6T2-5065

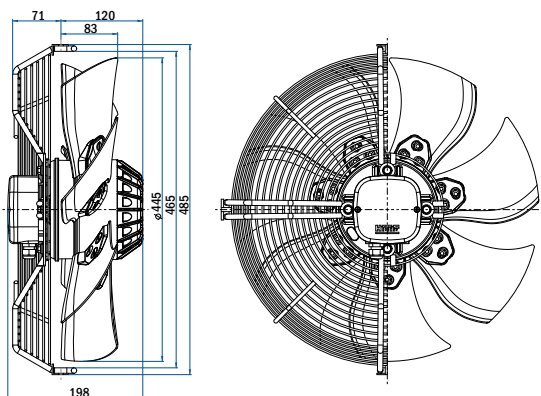


Nominal data according to standard EN 60335:

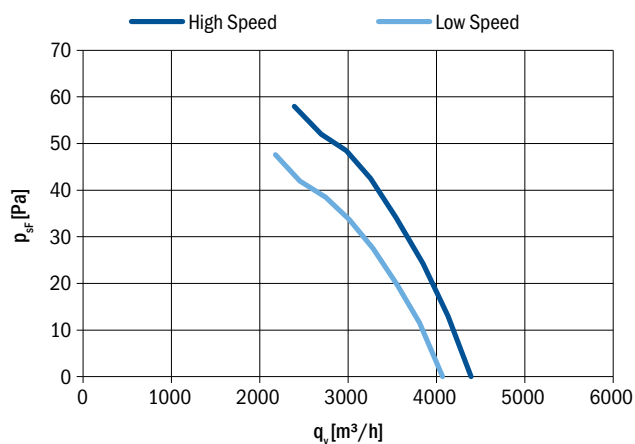
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	170/105 W
Rated current	0.70/0.23 A
Rated speed	940/840 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	67/62 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530HA-6T2-5065	0313-4-1072	11.0
Blowing	R13R-4530HA-6T2-5065	On request	



Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530HA-6T2-5065	0313-4-1071	16.5
Blowing	R13P-4530HA-6T2-5065	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530HA-6T2-5065	0313-4-1062	8.1
Blowing	R13E-4530HA-6T2-5065	On request	

General notes

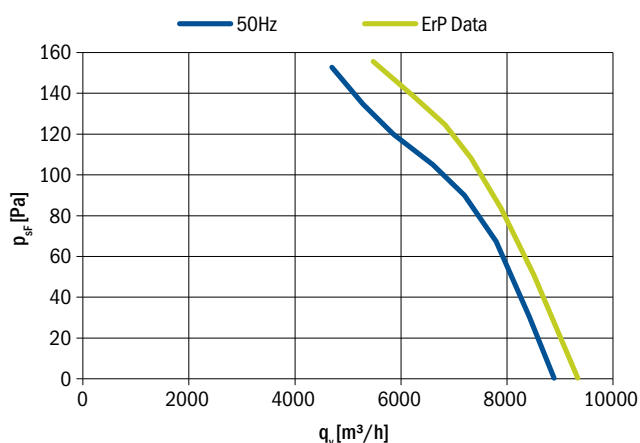
Connection diagrams:		
Sucking	0301-1-0033	See section
Blowing	0301-1-0033	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-5030H_-4M-7075**Diameter:****500 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	780 W
Rated current	3.50 A
Rated speed	1370 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	76 dB (A)
Condensator	16 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.4
Variable speed drive	N0
Power input	771 W
Air flow	6829 m³/h
Pressure drop	125 Pa
Speed	1336 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

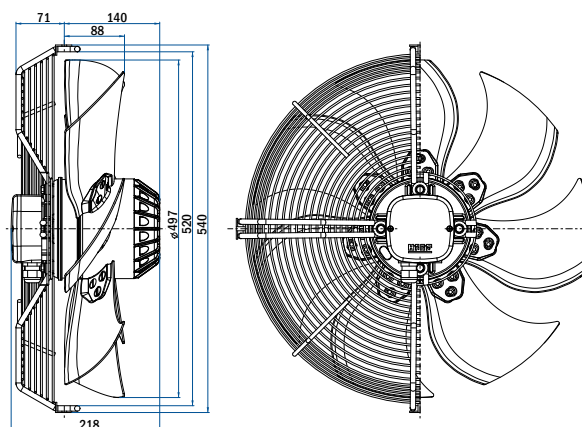
General notes

Connection diagrams:

Sucking	0301-1-0035	See section
Blowing	0301-1-0029	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-4M-7075	0313-4-1081	13.1
Blowing	R13R-5030HP-4M-7075	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030HA-4M-7075	0313-4-1120	18.6
Blowing	R13P-5030HP-4M-7075	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-4M-7075	0313-4-1121	10.7
Blowing	R13E-5030HP-4M-7075	On request	

Diameter:

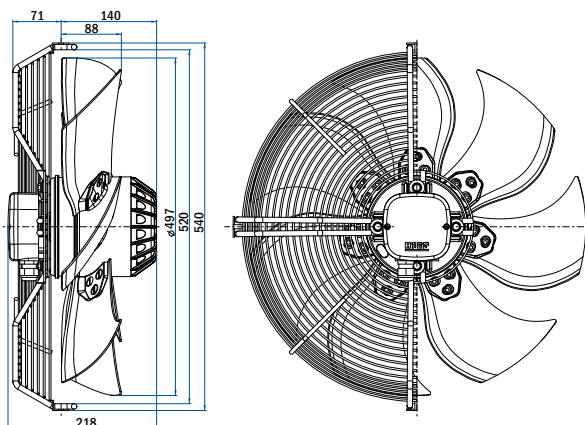
500 mm

R13_-5030H_-4T2-70101



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-4T2-70101	0313-4-1038	12.5
Blowing	R13R-5030HP-4T2-70101	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030HA-4T2-70101	0313-4-1028	18.0
Blowing	R13P-5030HP-4T2-70101	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-4T2-70101	0313-4-1068	10.1
Blowing	R13E-5030HP-4T2-70101	On request	

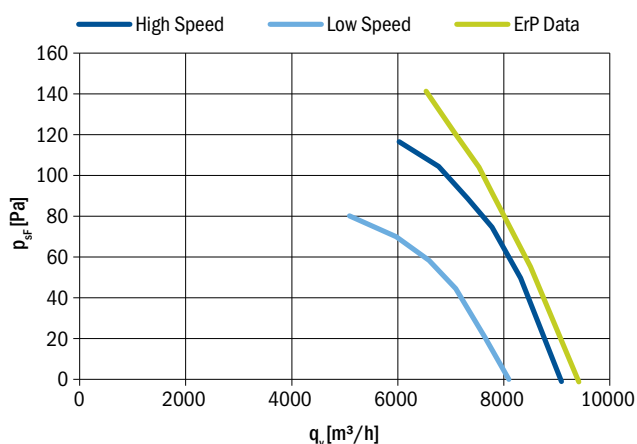
Nominal data according to standard EN 60335:

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	770/590 W
Rated current	1.6/0.96 A
Rated speed	1380/1165 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55/65 °C
Sound power level A weighted	76/72 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	31.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.2
Variable speed drive	NO
Power input	745 W
Air flow	6519 m³/h
Pressure drop	141 Pa
Speed	1390 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

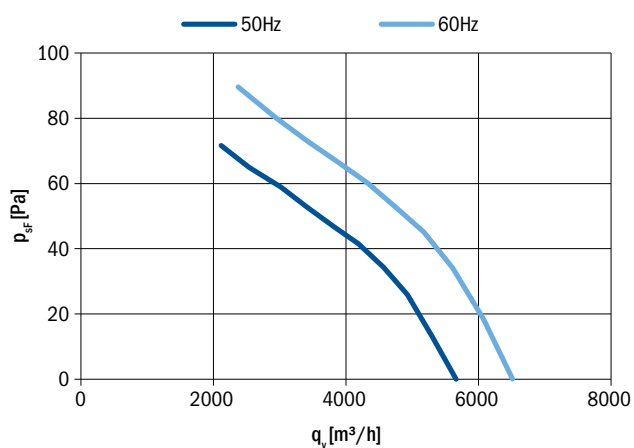
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R13_-5030H_-6M-5072**Diameter:****500 mm****Nominal data according to standard EN 60335:**

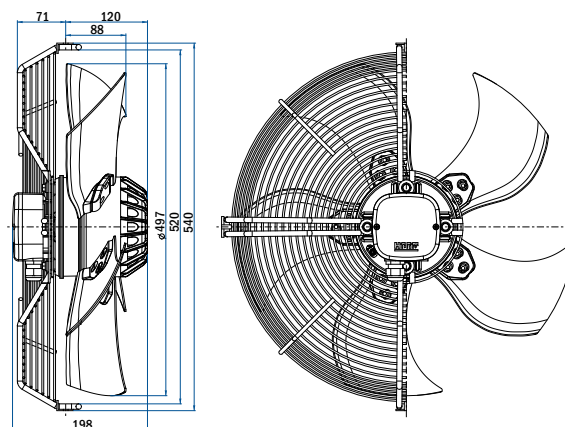
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	245/320 W
Rated current	1.10/1.35 A
Rated speed	900/1030 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	72/76 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-6M-5072	0313-4-1083	10.3
Blowing	R13R-5030HP-6M-5072	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030HA-6M-5072	0313-4-1105	15.8
Blowing	R13P-5030HP-6M-5072	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-6M-5072	0313-4-1104	7.9
Blowing	R13E-5030HP-6M-5072	On request	

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
 Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

500 mm

R13_-5030H_-6M-5071

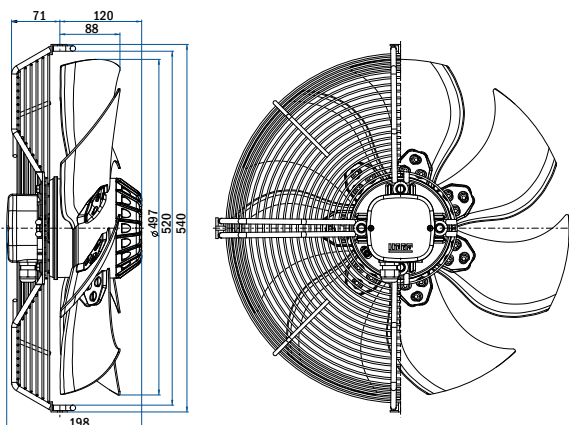


Nominal data according to standard EN 60335:

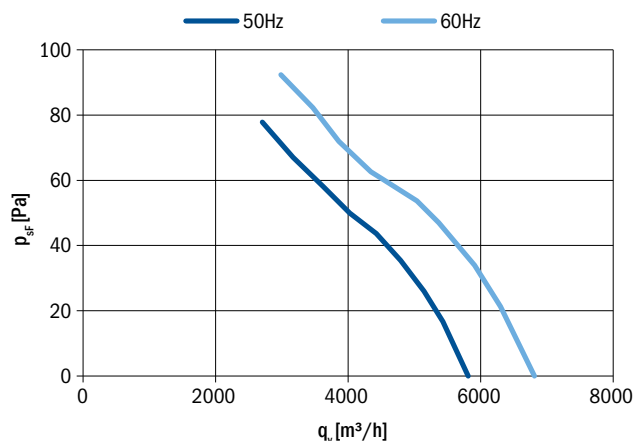
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	280/370 W
Rated current	1.20/1.50 A
Rated speed	890/1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	75/78 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-6M-5071	0313-4-1080	10.5
Blowing	R13R-5030HP-6M-5071	On request	



Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030HA-6M-5071	0309-4-1102	16.0
Blowing	R13P-5030HP-6M-5071	On request	

Fan without guard grill

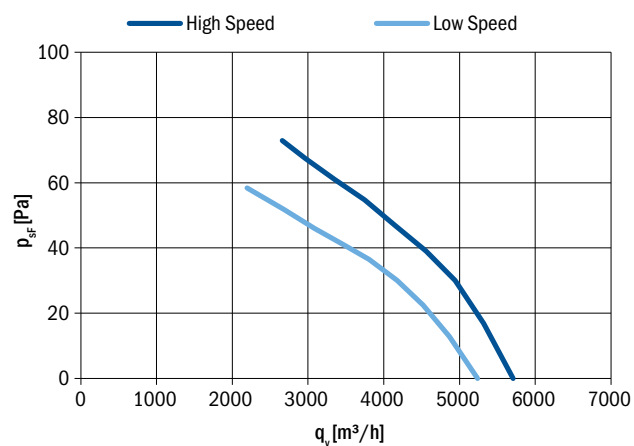
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-6M-5071	0313-4-1101	8.0
Blowing	R13E-5030HP-6M-5071	On request	

General notes

Connection diagrams:		
Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-5030H_-6T2-5068**Diameter:****500 mm****Nominal data according to standard EN 60335:**

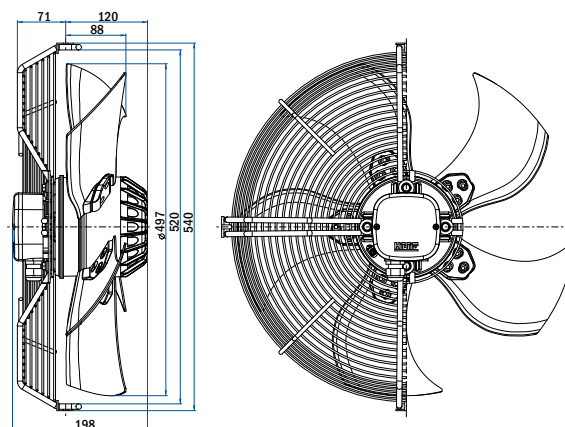
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	210/150 W
Rated current	0.60/0.27 A
Rated speed	960/880 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	72/70 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-6T2-5068	0313-4-1089	10.3
Blowing	R13R-5030HP-6T2-5068	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030HA-6T2-5068	0313-4-1090	15.8
Blowing	R13P-5030HP-6T2-5068	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-6T2-5068	0313-4-1088	7.9
Blowing	R13E-5030HP-6T2-5068	On request	

General notes

Connection diagrams:

Sucking 0301-1-0033 See section
 Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

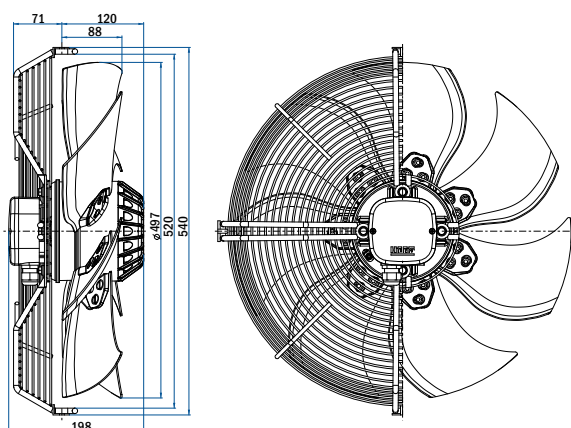
500 mm

R13_-5030H_-6T2-5065



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-6T2-5065	0313-4-1086	10.5
Blowing	R13R-5030HP-6T2-5065	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030HA-6T2-5065	0313-4-1087	16.0
Blowing	R13P-5030HP-6T2-5065	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-6T2-5065	0313-4-1063	8.0
Blowing	R13E-5030HP-6T2-5065	On request	

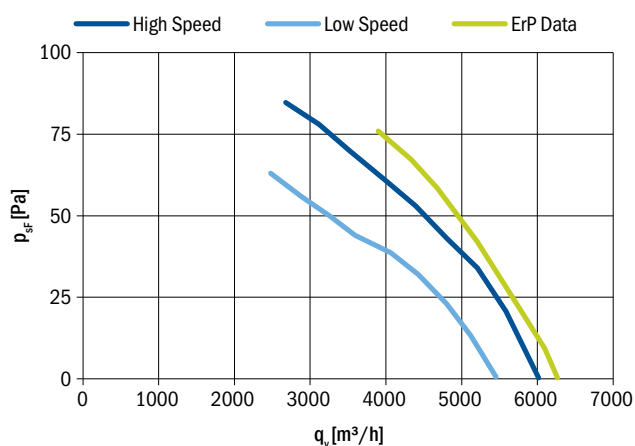
Nominal data according to standard EN 60335:

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	255/175 W
Rated current	0.67/0.31 A
Rated speed	960/870 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	73/71 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	27.3 %
Measurement category	A
Efficiency category	static
Efficiency grade N	37.1
Variable speed drive	NO
Power input	285 W
Air flow	4335 m³/h
Pressure drop	67 Pa
Speed	939 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

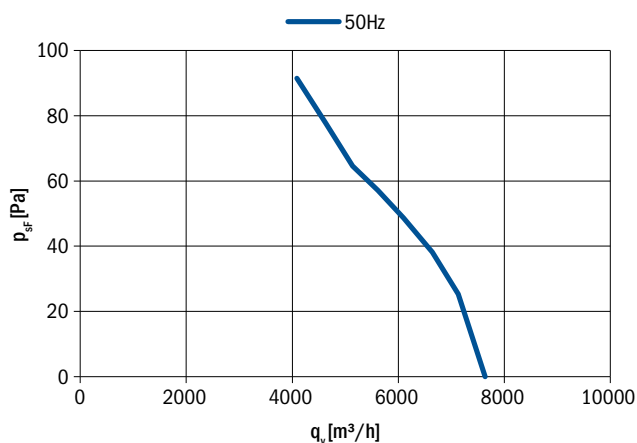
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R13_-5630H_-6M-7036**Diameter:****560 mm****Nominal data according to standard EN 60335:**

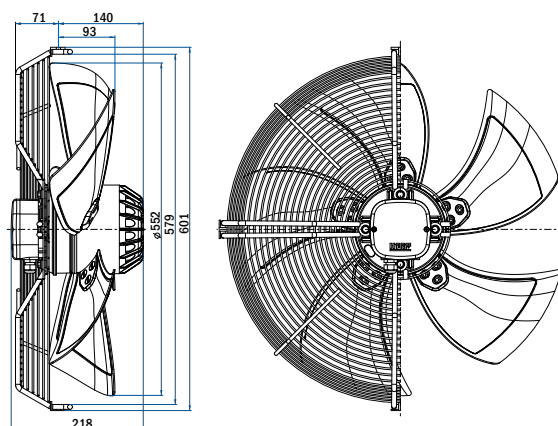
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	420 W
Rated current	1.90 A
Rated speed	865 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	76 dB (A)
Condensator	12.5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5630HA-6M-7036	0313-4-1007	13.3
Blowing	R13R-5630HP-6M-7036	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5630HA-6M-7036	0313-4-1031	21.0
Blowing	R13P-5630HP-6M-7036	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5630HA-6M-7036	0313-4-1066	10.5
Blowing	R13E-5630HP-6M-7036	On request	

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
 Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

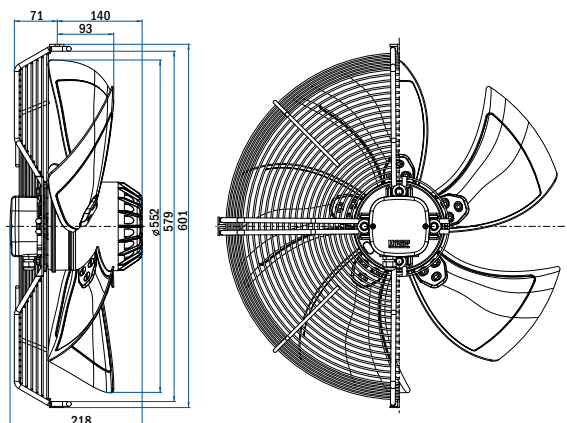
560 mm

R13_-5630H_-6T2-7008



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5630HA-6T2-7008	0313-4-1011	13.3
Blowing	R13R-5630HP-6T2-7008	0313-4-1020	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5630HA-6T2-7008	0313-4-1015	21.0
Blowing	R13P-5630HP-6T2-7008	On request	

Fan without guard grill

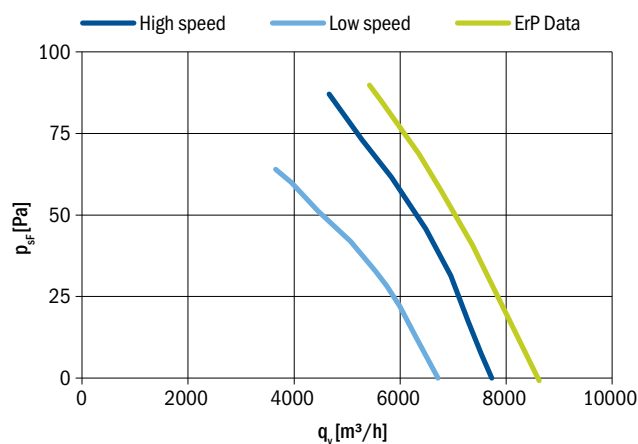
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5630HA-6T2-7008	0313-4-1045	10.5
Blowing	R13E-5630HP-6T2-7008	On request	

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	380/250 W
Rated current	0.85/0.44 A
Rated speed	910/760 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	76/71 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	31.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.2
Variable speed drive	NO
Power input	411 W
Air flow	5423 m³/h
Pressure drop	90 Pa
Speed	920 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

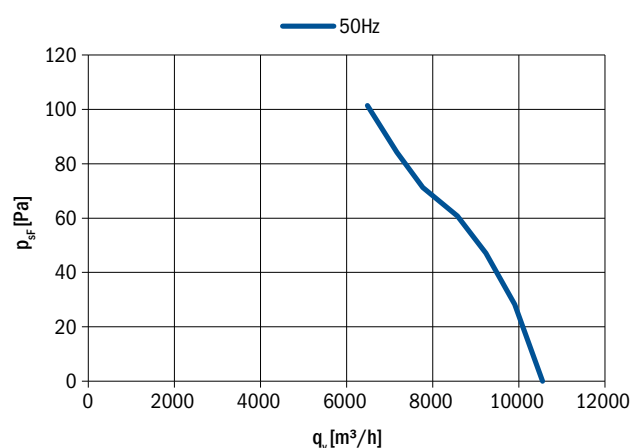
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R13_-6330H_-6M-X055**Diameter:****630 mm****Nominal data according to standard EN 60335:**

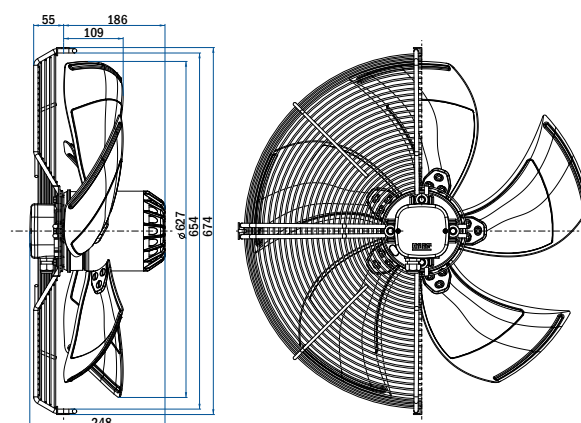
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	680 W
Rated current	3.10 A
Rated speed	890 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	77 dB (A)
Condensator	18 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330HA-6M-X055	0313-4-1005	17.0
Blowing	R13R-6330HP-6M-X055	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-6330HA-6M-X055	0313-4-1060	24.7
Blowing	R13P-6330HP-6M-X055	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6330HA-6M-X055	0313-4-1061	14.2
Blowing	R13E-6330HP-6M-X055	On request	

General notes

Connection diagrams:

Sucking 0301-1-0035 See section
 Blowing 0301-1-0029 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

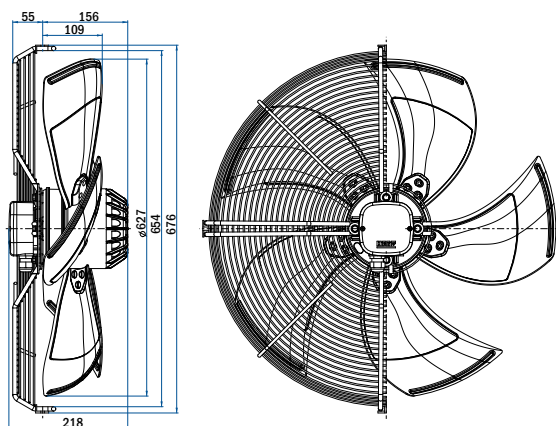
630 mm

R13_-6330H_-6T2-7042



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330HA-6T2-7042	0313-4-1000	14.5
Blowing	R13R-6330HP-6T2-7042	0313-4-1017	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-6330HA-6T2-7042	0313-4-1013	23.3
Blowing	R13P-6330HP-6T2-7042	0313-4-1019	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6330HA-6T2-7042	0313-4-1042	10.8
Blowing	R13E-6330HP-6T2-7042	0313-4-1050	

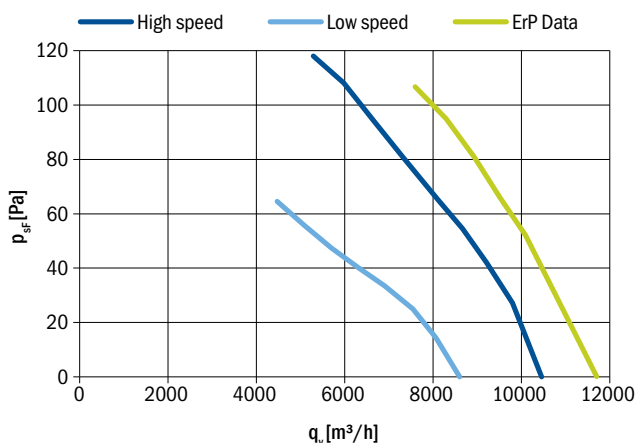
Nominal data according to standard EN 60335:

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	600/380 W
Rated current	1.25/0.65 A
Rated speed	870/640 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	40 °C
Sound power level A weighted	77/73 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	32.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.1
Variable speed drive	NO
Power input	680 W
Air flow	7593 m³/h
Pressure drop	107 Pa
Speed	877 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

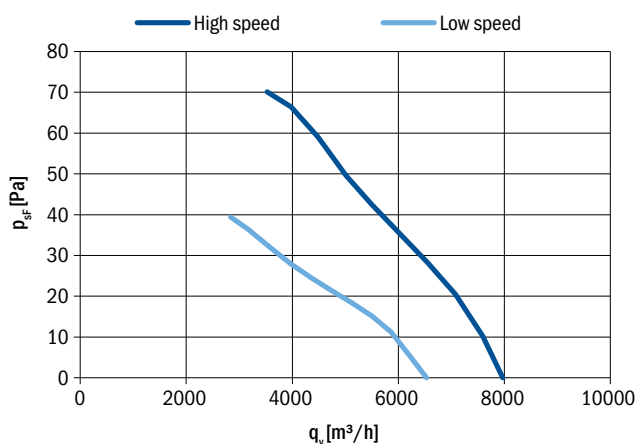
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R13_-6330H_-8T2-7038**Diameter:****630 mm****Nominal data according to standard EN 60335:**

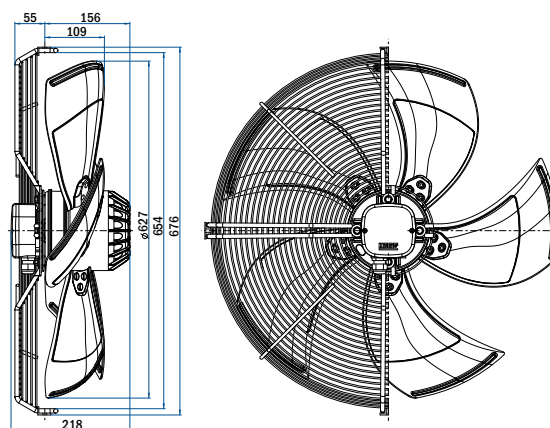
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	280/175 W
Rated current	0.68/0.30 A
Rated speed	650/510 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	71/66 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330HA-8T2-7038	0313-4-1023	14.5
Blowing	R13R-6330HP-8T2-7038	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-6330HA-8T2-7038	0313-4-1030	23.3
Blowing	R13P-6330HP-8T2-7038	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6330HA-8T2-7038	0313-4-1043	10.8
Blowing	R13E-6330HP-8T2-7038	On request	

General notes

Connection diagrams:

Sucking 0301-1-0033 See section
 Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

630 mm

R18_-6330H_-4T2-X003

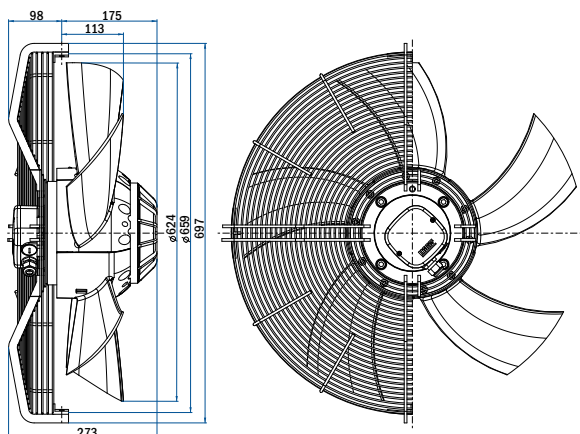


Nominal data according to standard EN 60335:

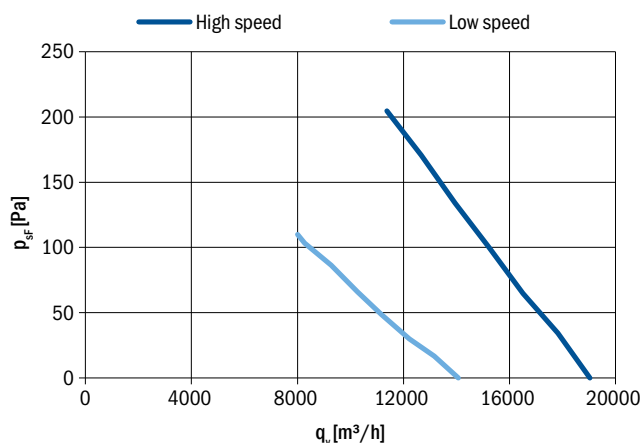
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	2350/1360 W
Rated current	4.65/2.75 A
Rated speed	1360/1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	89/83 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18R-6330HA-4T2-X003	0318-4-0014	30.5



Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18P-6330HA-4T2-X003	0318-4-0020	39.0

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18E-6330HA-4T2-X003	0318-4-0010	26.0

General notes

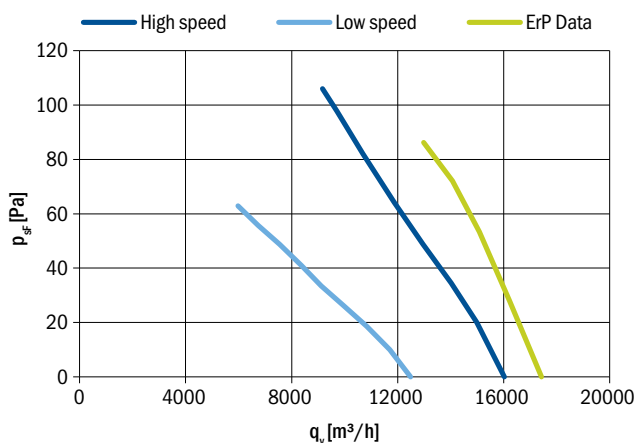
Connection diagrams:	0301-1-0031	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

R18_-7130H_-6T2-7502**Diameter:****710 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	990/650 W
Rated current	1.90/1.20 A
Rated speed	870/620 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	78/74 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.8 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.1
Variable speed drive	NO
Power input	998 W
Air flow	12977 m³/h
Pressure drop	86 Pa
Speed	888 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

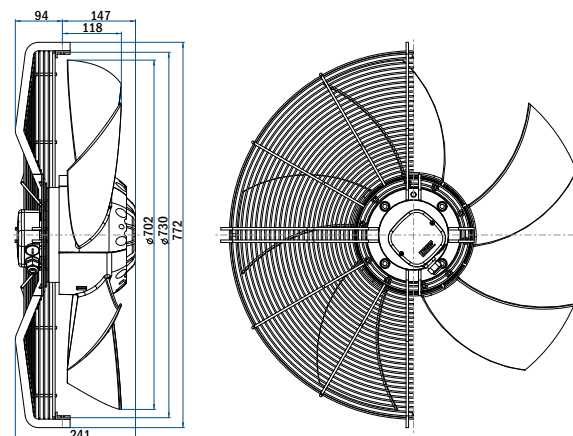
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:	0301-1-0031	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18R-7130HA-6T2-7502	0318-4-0007	27.2

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18P-7130HA-6T2-7502	0318-4-0003	34.9

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18E-7130HA-6T2-7502	0318-4-0016	22.0

Diameter:

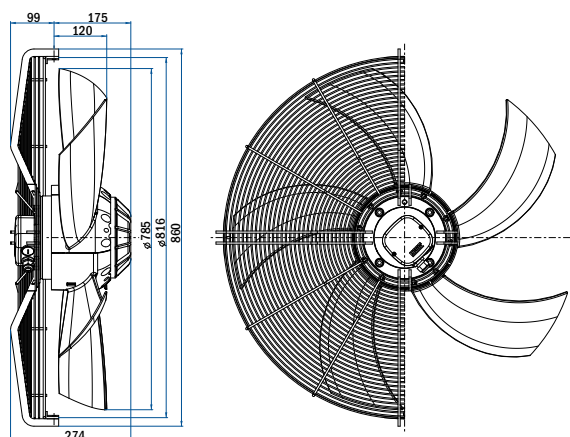
800 mm

R18_-8030H_-6T2-X004



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18R-8030HA-6T2-X004	0318-4-0026	32.8



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18P-8030HA-6T2-X004	0318-4-0028	45.7

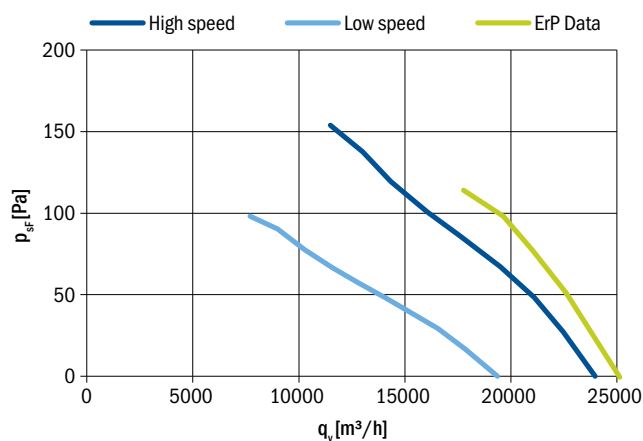
Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18E-8030HA-6T2-X004	0318-4-0029	27.0

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	1560/1050 W
Rated current	3.50/2.00 A
Rated speed	900/700 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	82/77 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:	
Overall efficiency	31.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.5
Variable speed drive	NO
Power input	1716 W
Air flow	17772 m³/h
Pressure drop	114 Pa
Speed	912 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

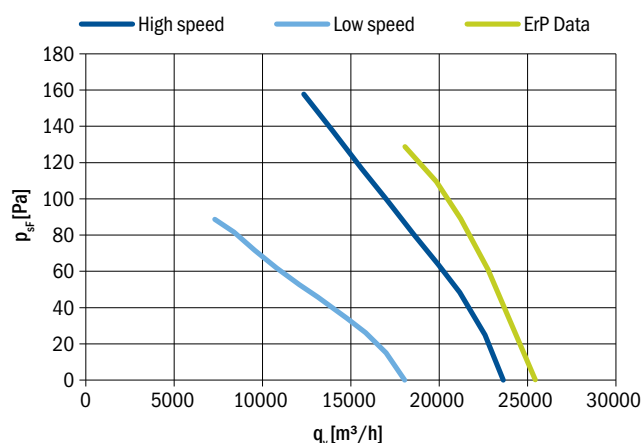
Connection	0301-1-0031	See section diagrams:
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

R18_-8030H_-6T2-X001**Diameter:****800 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	2000/1050 W
Rated current	4.0/2.3 A
Rated speed	890/630 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	81/75 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	31.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.1
Variable speed drive	NO
Power input	2032 W
Air flow	18059 m³/h
Pressure drop	129 Pa
Speed	890 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

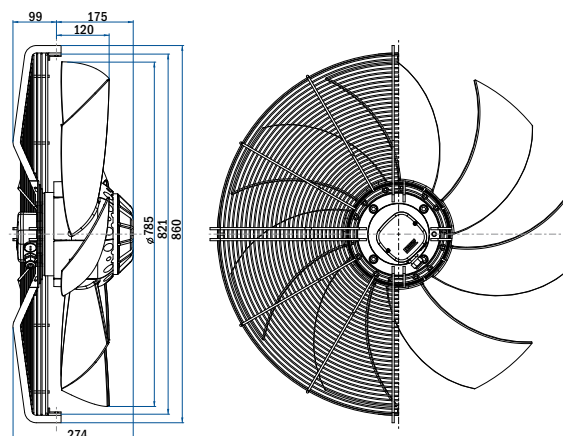
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:	0301-1-0031	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18R-8030HA-6T2-X001	0318-4-0005	34.8

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18P-8030HA-6T2-X001	0318-4-0001	47.7

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18E-8030HA-6T2-X001	0318-4-0009	29.0

Diameter:

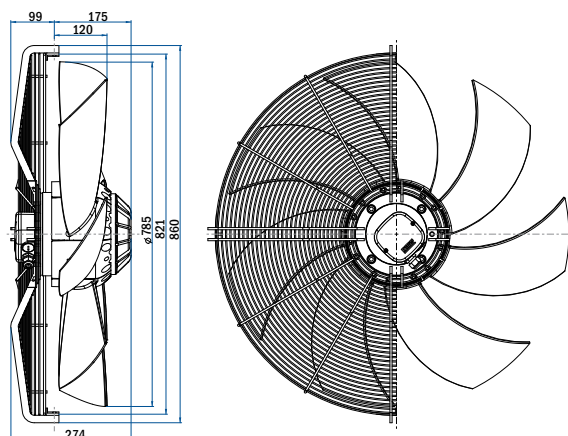
800 mm

R18_-8030H_-8T2-X000



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18R-8030HA-8T2-X000	0318-4-0004	34.8



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18P-8030HA-8T2-X000	0318-4-0000	47.7

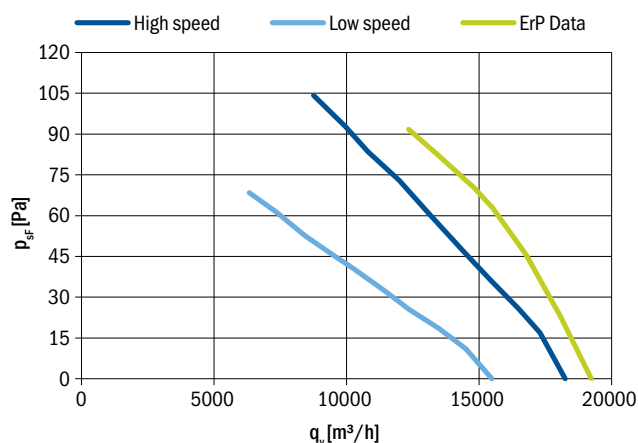
Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18E-8030HA-8T2-X000	0318-4-0008	29.0

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	920/600 W
Rated current	2.3/1.15 A
Rated speed	680/560 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	77/69.5 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:	
Overall efficiency	30.8 %
Measurement category	A
Efficiency category	static
Efficiency grade N	37.2
Variable speed drive	NO
Power input	984 W
Air flow	12343 m³/h
Pressure drop	92 Pa
Speed	687 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

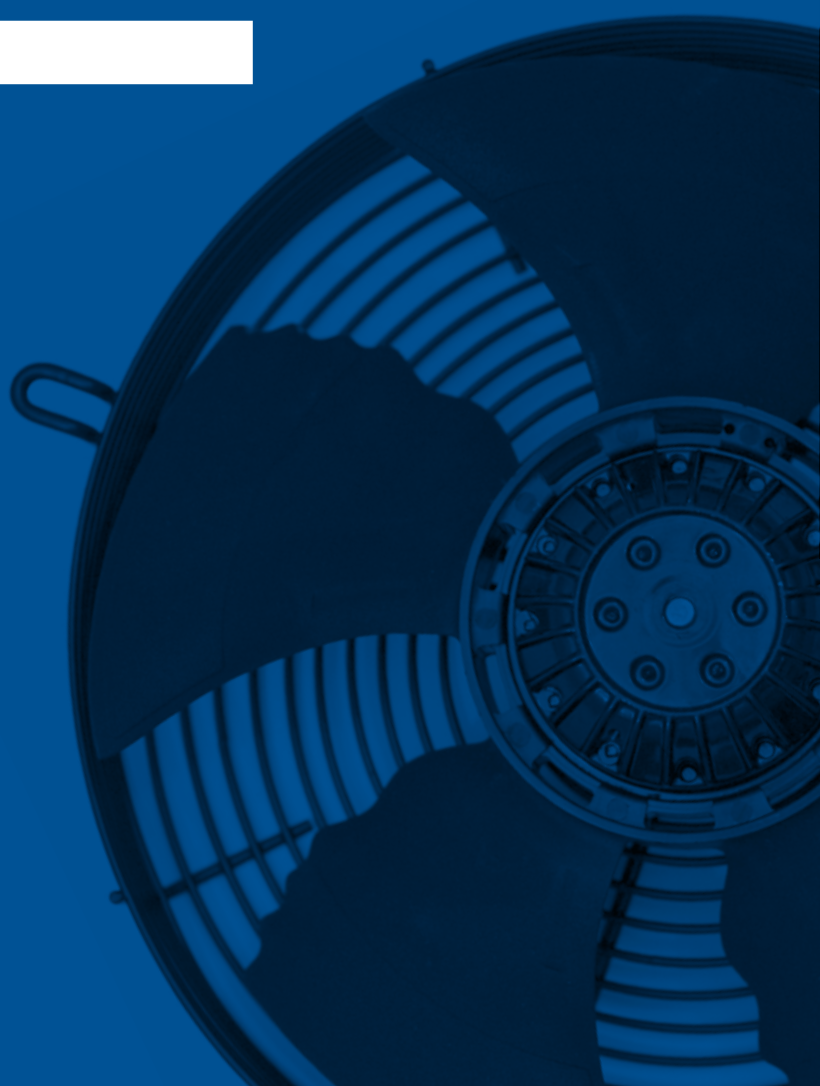
ErP characteristic measured in full bell mouth without guard grill.

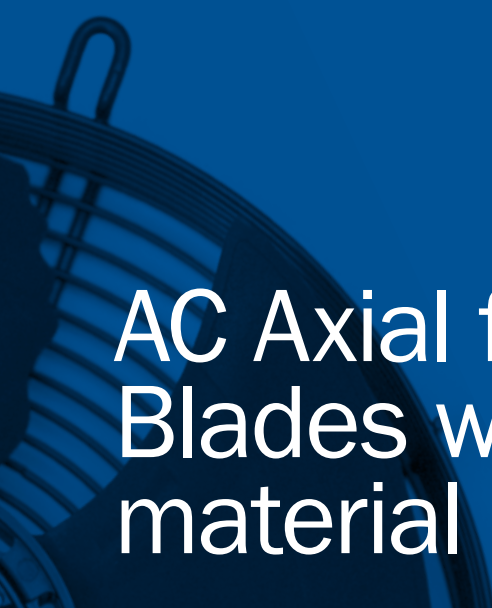
General notes

Connection	0301-1-0031	See section diagrams:
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

AC AXIAL FANS - SICKLED BLADES
AC AXIAL FANS - BLADES WITH COMPOSITE MATERIAL (PP/AP)
AC AXIAL FANS - PADDLE BLADES
UL LISTED AXIAL FANS
ACCESSORIES
CONNECTION DIAGRAMS
APPENDIX

02





AC Axial fans – Blades with composite material (PP/AP)

AC AXIAL FANS –
SICKLED BLADESAC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

AC Axial fans

Blades with composite material (PP/AP)





Plastic blades (type SP, KP, LP)
Diameter: 300–360 mm

40–42



Plastic blades (type AP)
Diameters: 420 mm

46



Plastic blades (type SP, LP)
Diameters: 400–450 mm

43–45
47–49

Example of type key:

R11R-45SPS-4T2-5745

- R11** External rotor motor type (R09, R11)
- R** Accessory type (E – without guard grill, R – with guard grill, P – with guard grill and wall plate)
- 45** Fan diameter x 10 (exact diameters are stated in drawings)
- SP** Type of blades (AP, KP, LP, SP)
- S** Airflow direction (S – sucking, B – blowing)
- 4** Number of motor poles
- T** Number of phases (M – single phase, T – three phase)
- 2** Number of motor speed
- 57** Motor stack height
- 45** Version of electrical construction

Diameter:

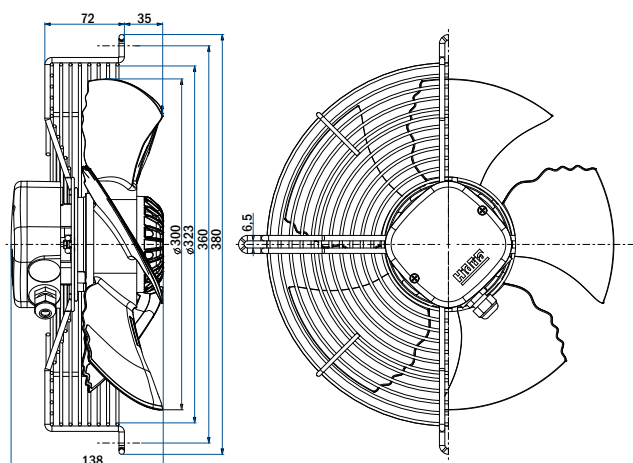
300 mm

R09_-30SP_-4M-2543



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-30SPS-4M-2543	0309-4-1091	3.0
Blowing	R09R-30SPB-4M-2543	0309-4-1092	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-30SPS-4M-2543	On request	
Blowing	R09P-30SPB-4M-2543	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-30SPS-4M-2543	On request	
Blowing	R09E-30SPB-4M-2543	On request	

Nominal data according to standard EN 60335:

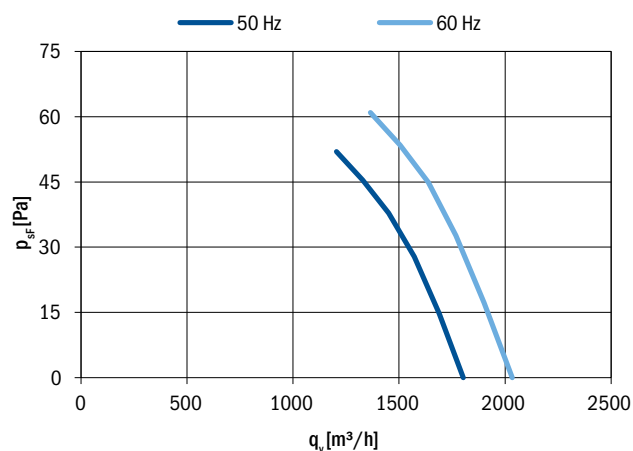
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	65/90 W
Rated current	0.30/0.40 A
Rated speed	1400/1500 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	65/70 dB (A)
Condensator	2 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

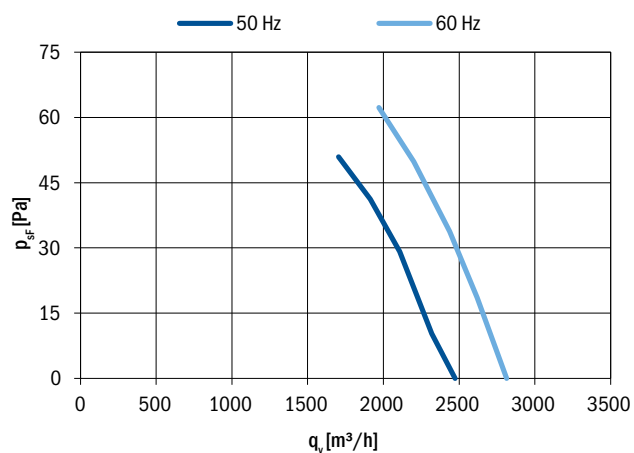
Standards compliance See introduction page

R11_-35KP_-4M-3808**Diameter:****350 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	110/145 W
Rated current	0.45/0.65 A
Rated speed	1360/1490 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	65/69 dB (A)
Condensator	4 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:**Is not subject to the EU regulation 327/2011.**

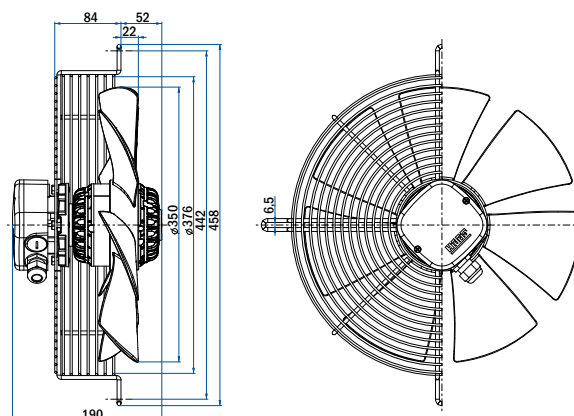
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-35KPA-4M-3808	0311-4-0243	5.5
Blowing	R11R-35KPP-4M-3808	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-35KPA-4M-3808	On request	
Blowing	R11P-35KPP-4M-3808	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-35KPA-4M-3808	On request	
Blowing	R11E-35KPP-4M-3808	On request	

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
 Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

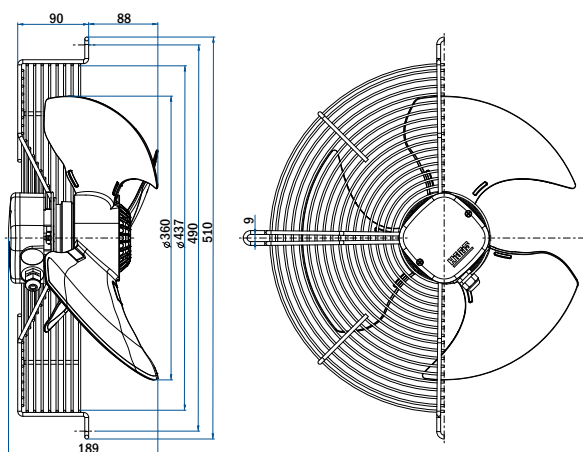
360 mm

R09_-36LP_-6M-4249



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-36LPS-6M-4249	0309-4-0436	3.8



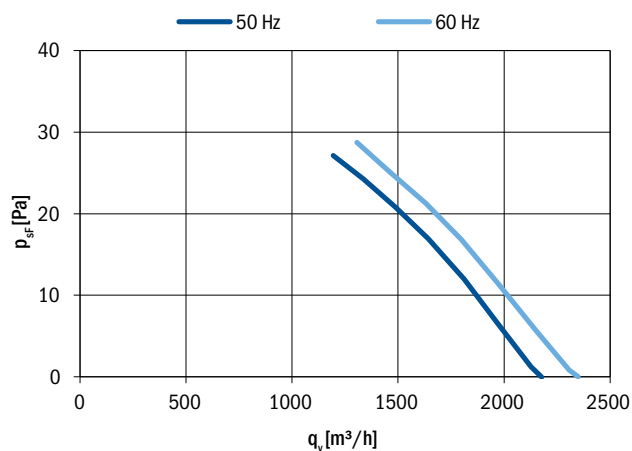
Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	65/70 W
Rated current	0.30/0.32 A
Rated speed	830/900 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	52 / 55 dB (A)
Condensator	1.5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-36LPS-6M-4249	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-36LPS-6M-4249	On request	

General notes

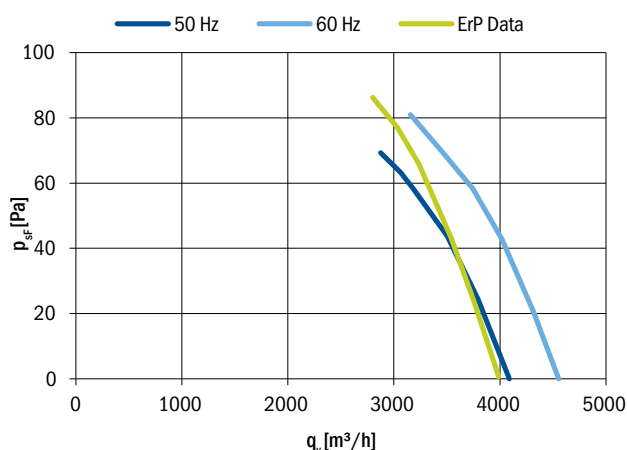
Connection diagrams:	0301-1-0044	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

R11_-40LP_-4M-5150**Diameter:****400 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	190/260 W
Rated current	0.85/1.10 A
Rated speed	1310/1450 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	73/76 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	30.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.5
Variable speed drive	NO
Power input	208 W
Air flow	2800 m³/h
Pressure drop	86 Pa
Speed	1314 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

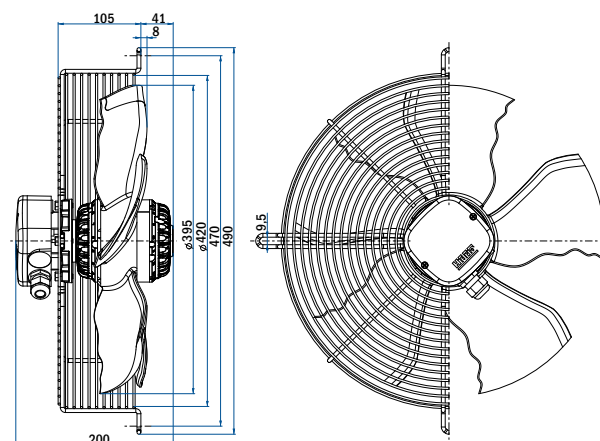
Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-40LPS-4M-5150	0311-4-0313	6.0
Blowing	R11R-40LPB-4M-5150	0311-4-0342	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-40LPS-4M-5150	On request	
Blowing	R11P-40LPB-4M-5150	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-40LPS-4M-5150	On request	
Blowing	R11E-40LPB-4M-5150	On request	

Diameter:

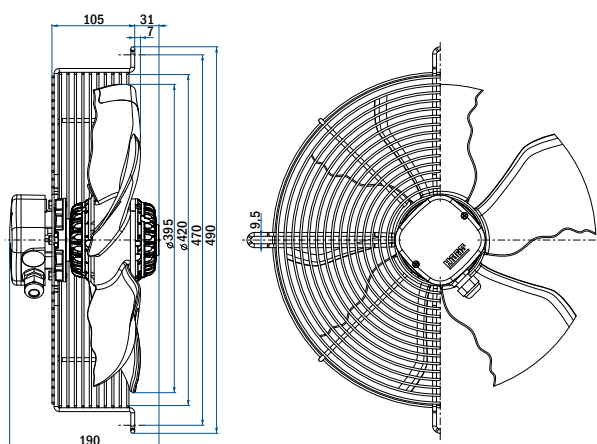
400 mm

R11_-40LP_-6M-3806



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-40LPS-6M-3806	0311-4-0490	
Blowing	R11R-40LPB-6M-3806	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-40LPS-6M-3806	On request	
Blowing	R11P-40LPB-6M-3806	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-40LPS-6M-3806	On request	
Blowing	R09E-30SPB-4M-2543	On request	

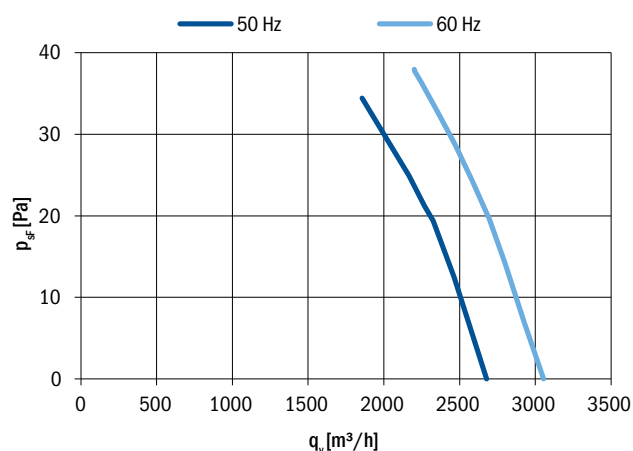
Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	85/110 W
Rated current	0.38/0.48 A
Rated speed	870/980 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	
Condensator	3.15 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R11_-42LP_-4M-5150

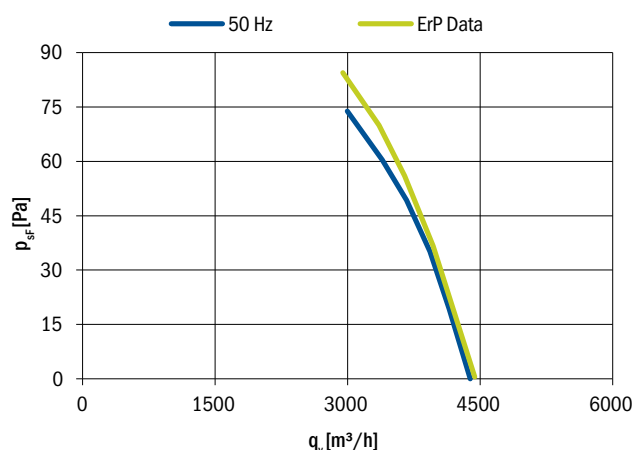
Diameter:

420 mm

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	220 W
Rated current	1.00 A
Rated speed	1280 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	76 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:	
Overall efficiency	28.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	39.2
Variable speed drive	NO
Power input	231 W
Air flow	2948 m ³ /h
Pressure drop	84 Pa
Speed	1259 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams

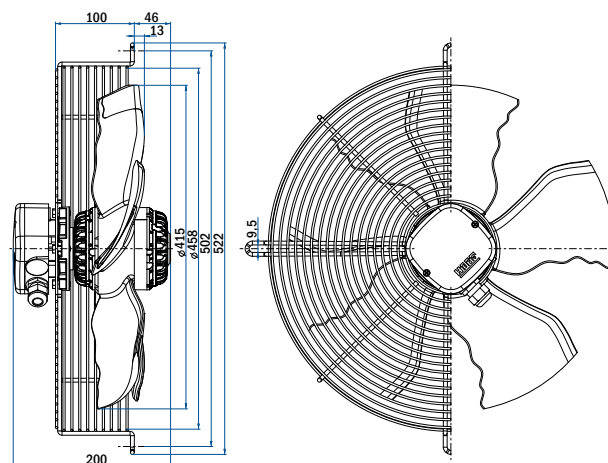
Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-42LPS-4M-5150	0311-4-0312	6.1
Blowing	R11R-42LPB-4M-5150	0311-4-0310	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-42LPS-4M-5150	On request	
Blowing	R11P-42LPB-4M-5150	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-42LPS-4M-5150	On request	
Blowing	R11E-42LPB-4M-5150	On request	

Diameter:

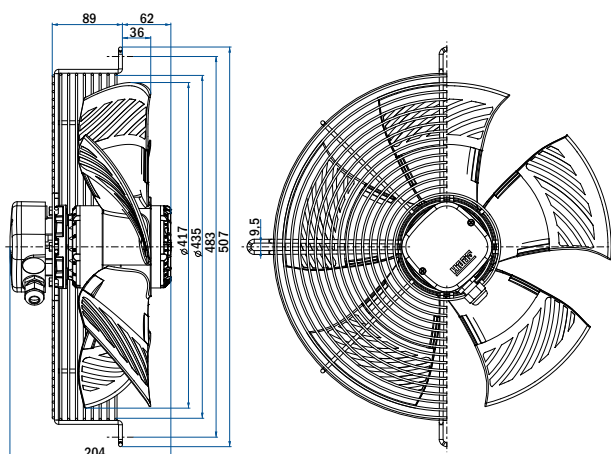
420 mm

R11_-42AP_-6M-5758



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-42APS-6M-5758	0311-4-0462	6.8
Blowing	R11R-42APB-6M-5758	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-42APS-6M-5758	On request	
Blowing	R11P-42APB-6M-5758	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-42APS-6M-5758	On request	
Blowing	R11E-42APB-6M-5758	On request	

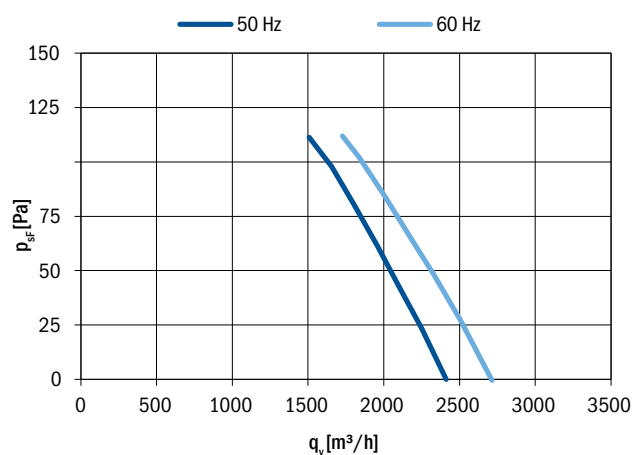
Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	120/165 W
Rated current	0.52/0.72 A
Rated speed	880/900 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/55 °C
Sound power level A weighted	
Condensator	3.15 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

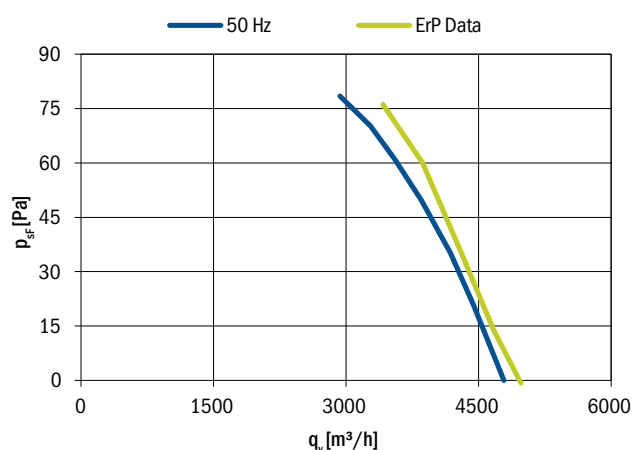
Standards compliance See introduction page

R11_-45LP_-4M-5150**Diameter:****450 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	240 W
Rated current	1.10 A
Rated speed	1230 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	78 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	26.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.6
Variable speed drive	NO
Power input	258 W
Air flow	3416 m³/h
Pressure drop	76 Pa
Speed	1207 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

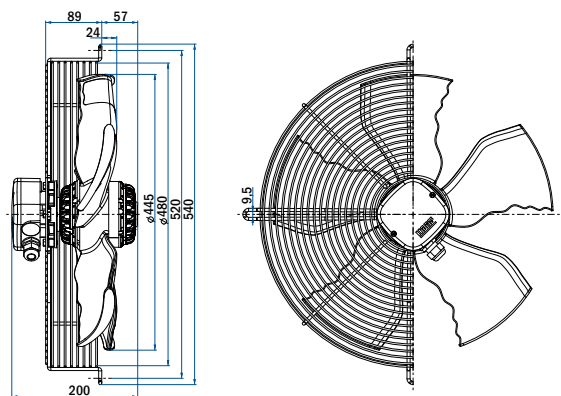
General notes

Connection diagrams:

Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-45LPS-4M-5150	0311-4-0314	6.4
Blowing	R11R-45LPB-4M-5150	0311-4-0343	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-45LPS-4M-5150	On request	
Blowing	R11P-45LPB-4M-5150	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-45LPS-4M-5150	On request	
Blowing	R11E-45LPB-4M-5150	On request	

Diameter:

450 mm

R11_-45LP_-6M-5105

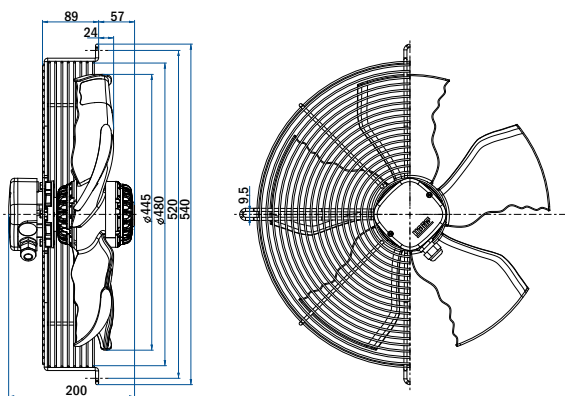


Nominal data according to standard EN 60335:

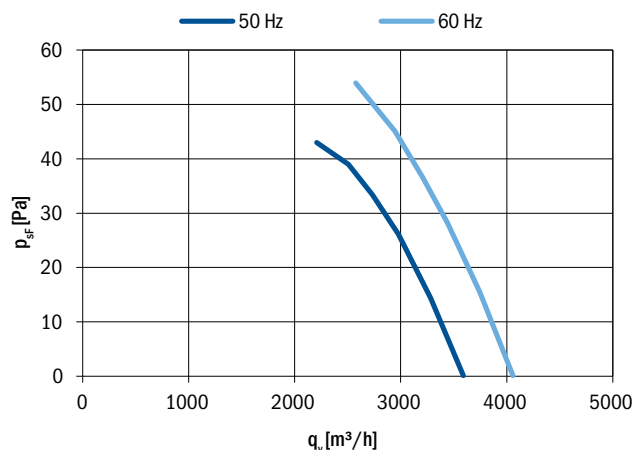
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	125/165 W
Rated current	0.55/0.70 A
Rated speed	890/1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	67/70 dB (A)
Condensator	5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-45LPS-6M-5105	0311-4-0300	6.4
Blowing	R11R-45LPB-6M-5105	On request	



Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-45LPS-6M-5105	On request	
Blowing	R11P-45LPB-6M-5105	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-45LPS-6M-5105	On request	
Blowing	R11E-45LPB-6M-5105	On request	

General notes

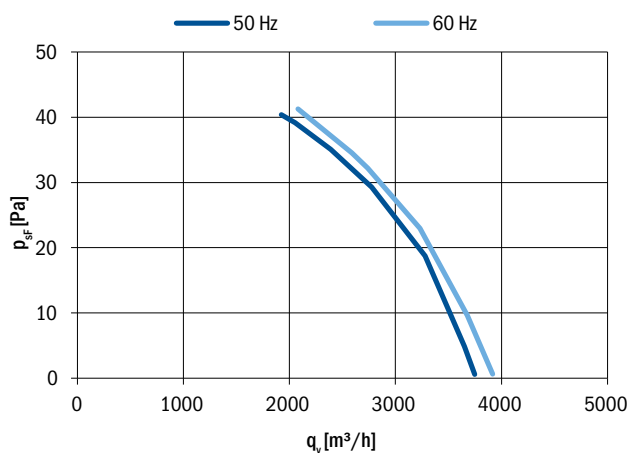
Connection diagrams:	0301-1-0044	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

R11_-45SP_-6M-5761**Diameter:****450 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	115/150 W
Rated current	0.50/0.65 A
Rated speed	800/880 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	67/70 dB (A)
Condensator	3.15 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:**Is not subject to the EU regulation 327/2011.**

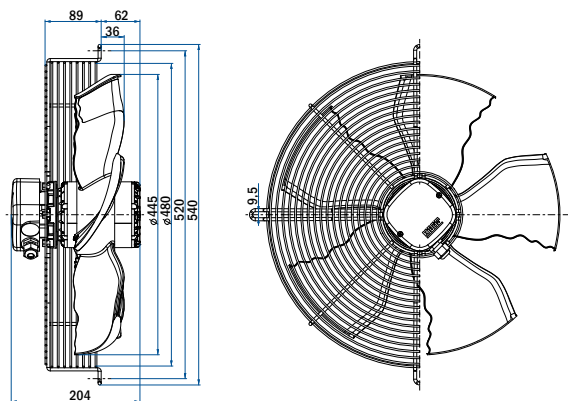
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-45SPS-6M-5761	0311-4-0403	
Blowing	R11R-45SPB-6M-5761	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-45SPS-6M-5761	On request	
Blowing	R11P-45SPB-6M-5761	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-45SPS-6M-5761	On request	
Blowing	R11E-45SPB-6M-5761	On request	

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
 Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

03





AC Axial fans – Paddle blades

AC AXIAL FANS –
SICKLED BLADES

AC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)

AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX



Stamped steel blades (type 25 °)
Diameters: 200–250 mm

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54–58



Stamped steel blades (type 28 °, 30 °, 32 °)
Diameters: 250–350 mm

59–67



Stamped aluminium blades (type 25 °, 30 °, 35 °)
Diameters: 400–630 mm

68–96

Example of type key:

R11R-4030A-4T2-3830

R11 External rotor motor type (R09, R11, R13)

R Accessory type (E – without guard grill, R – with guard grill, P – with guard grill and wall plate)

40 Fan diameter x 10 (exact diameters are stated in drawings)

30 Type of blades (25 °, 30 °, 35 °)

A Airflow direction (A – sucking, P – blowing)

4 Number of motor poles

T Number of phases (M – single phase, T – three phase)

2 Number of motor speed

38 Motor stack height

30 Version of electrical construction

AC AXIAL FANS –
SICKLED BLADES

AC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)

AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

Diameter:

200 mm

R09_-2025_-2M-1511



Nominal data according to standard EN 60335:

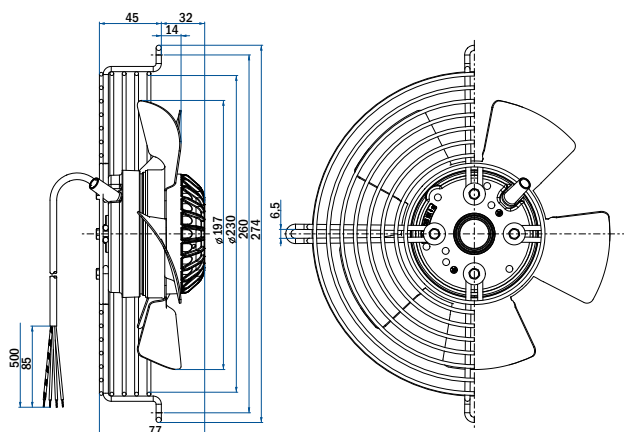
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	45/55 W
Rated current	0.21/0.24 A
Rated speed	2580/2850 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	66/69 dB (A)
Condensator	1.5 µF/450 V
Connection	cable
Insulation class	155
Protection class	IP44

Is not subject to the EU regulation 327/2011.

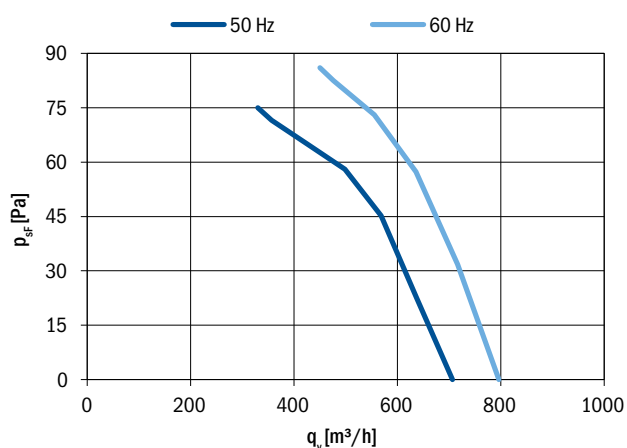
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2025A-2M-1511	0309-4-0190	1.6
Blowing	R09R-2025P-2M-1511	0309-4-0214	



Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-2025A-2M-1511	On request	2.3
Blowing	R09P-2025P-2M-1511	0309-4-0171	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-2025A-2M-1511	On request	
Blowing	R09E-2025P-2M-1511	On request	

General notes

Connection diagrams:

Sucking 0301-1-0026 See section
Blowing 0301-1-0042 Connection diagrams

Guard grills & wall-plates See section Accessories

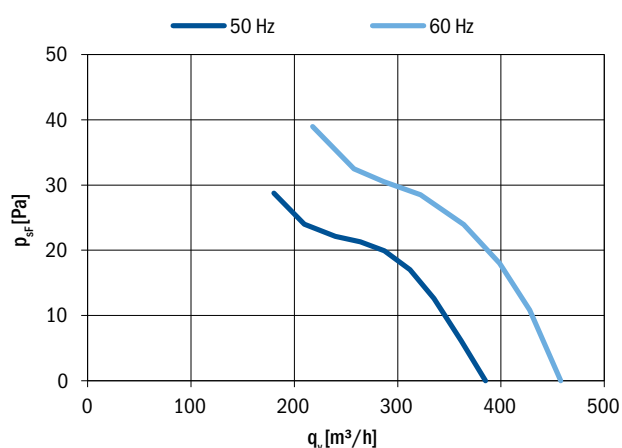
Standards compliance See introduction page

R09_-2025_-4M-2516**Diameter:****200 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	30/38 W
Rated current	0.14/0.17 A
Rated speed	1430/1680 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	52/54 dB (A)
Condensator	1.5 µF/450 V
Connection	cabie
Insulation class	155
Protection class	IP44

Is not subject to the EU regulation 327/2011.

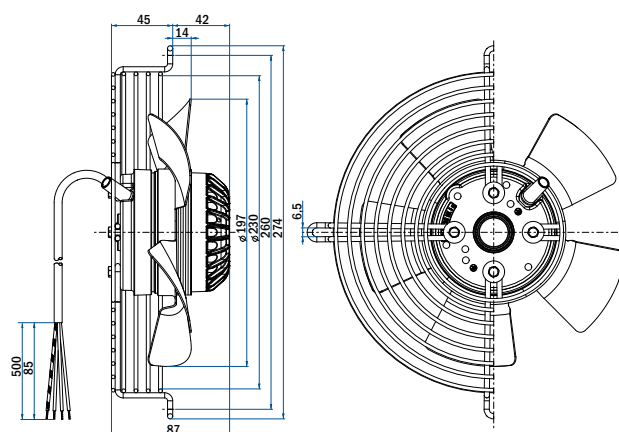
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2025A-4M-2516	0309-4-0213	1.9
Blowing	R09R-2025P-4M-2516	0309-4-0215	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-2025A-4M-2516	On request	
Blowing	R09P-2025P-4M-2516	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-2025A-4M-2516	On request	
Blowing	R09E-2025P-4M-2516	On request	

General notes

Connection diagrams:

Sucking 0301-1-0026 See section
 Blowing 0301-1-0002 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

250 mm

R09_-2525_-2M-3539



Nominal data according to standard EN 60335:

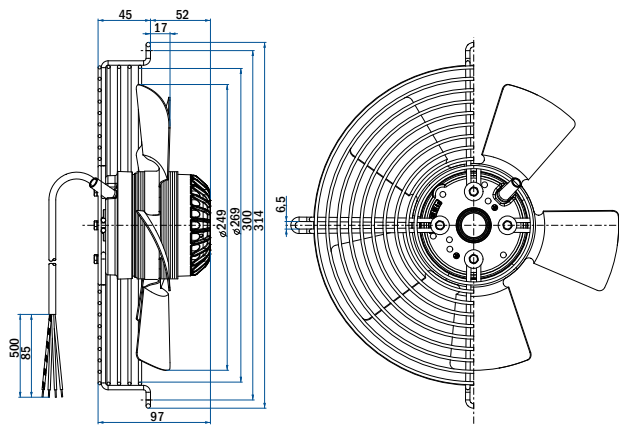
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	95/130 W
Rated current	0.44/0.58 A
Rated speed	2700/2950 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	72/73 dB (A)
Condensator	2 µF/450 V
Connection	cable
Insulation class	155
Protection class	IP44

Is not subject to the EU regulation 327/2011.

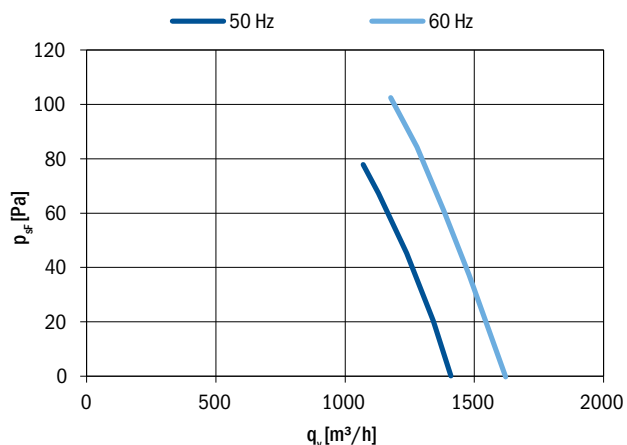
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2525A-2M-3539	0309-4-0198	2.5
Blowing	R09R-2525P-2M-3539	On request	



Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-2525A-2M-3539	On request	
Blowing	R09P-2525P-2M-3539	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-2525A-2M-3539	On request	
Blowing	R09E-2525P-2M-3539	On request	

General notes

Connection diagrams:

Sucking 0301-1-0026 See section
Blowing 0301-1-0002 Connection diagrams

Guard grills & wall-plates See section Accessories

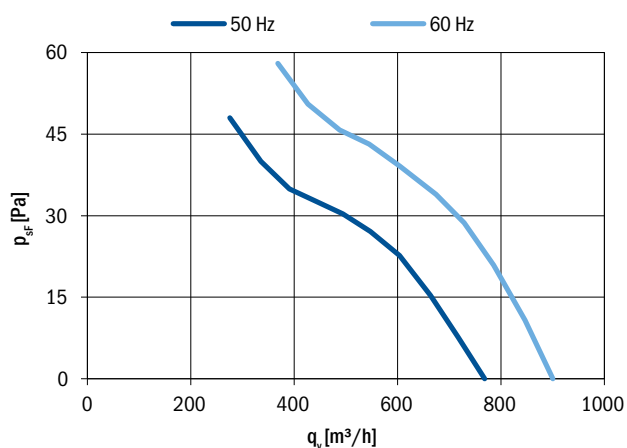
Standards compliance See introduction page

R09_-2525_-4M-2516**Diameter:****250 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	35/44 W
Rated current	0.16/0.18 A
Rated speed	1430/1680 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	59/61 dB (A)
Condensator	1.5 µF/450 V
Connection	cabie
Insulation class	155
Protection class	IP44

Is not subject to the EU regulation 327/2011.

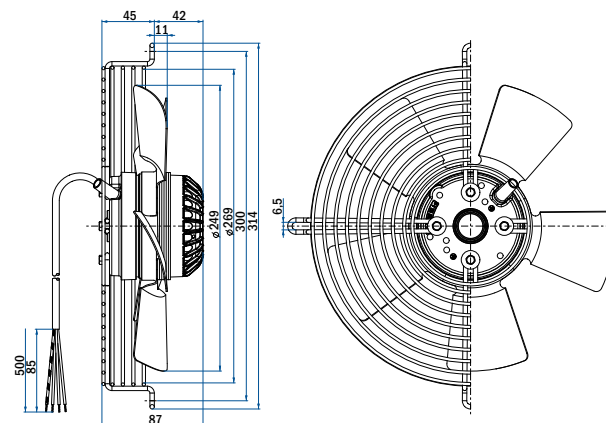
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill.

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2525A-4M-2516	0309-4-0199	2.1
Blowing	R09R-2525P-4M-2516	0309-4-0217	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-2525A-4M-2516	On request	
Blowing	R09P-2525P-4M-2516	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-2525A-4M-2516	On request	
Blowing	R09E-2525P-4M-2516	On request	

General notes

Connection diagrams:

Sucking 0301-1-0026 See section
 Blowing 0301-1-0002 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

250 mm

R09_-2525_-6M-2515



Nominal data according to standard EN 60335:

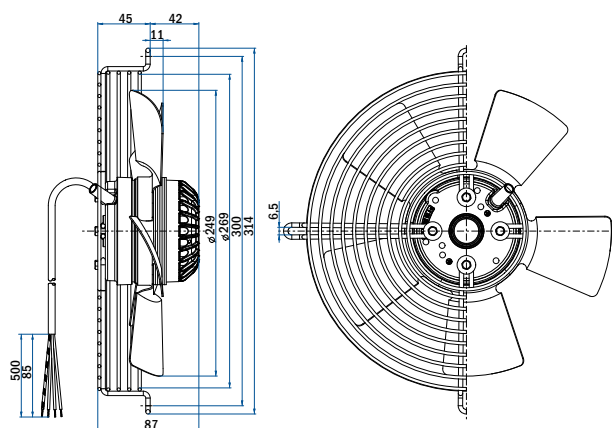
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	36/41 W
Rated current	0.16/0.18 A
Rated speed	980/1160 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	44/45 dB (A)
Condensator	1.5 µF/450 V
Connection	cabie
Insulation class	155
Protection class	IP44

Is not subject to the EU regulation 327/2011.

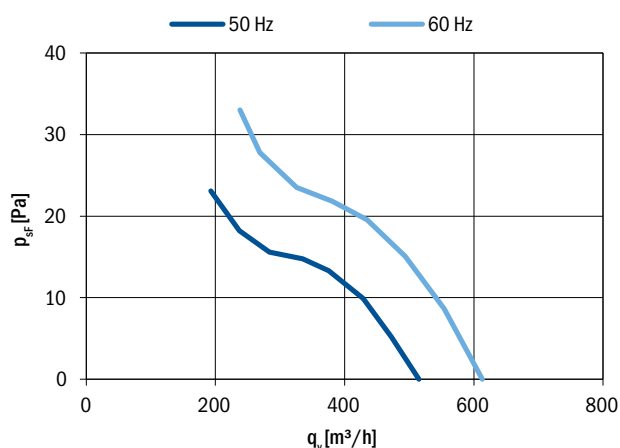
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2525A-6M-2515	0309-4-0191	2.1
Blowing	R09R-2525P-6M-2515	0309-4-0218	



Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-2525A-6M-2515	On request	
Blowing	R09P-2525P-6M-2515	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-2525A-6M-2515	On request	
Blowing	R09E-2525P-6M-2515	On request	

General notes

Connection diagrams:

Sucking 0301-1-0026 See section
Blowing 0301-1-0002 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R09_-2528_-4M-2516

Diameter:

250 mm

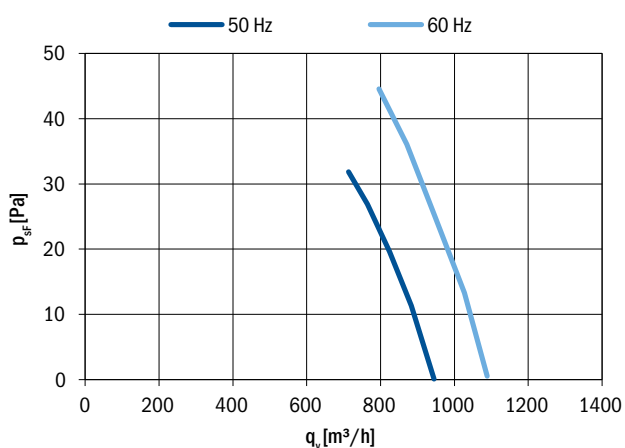
Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	40/52 W
Rated current	0.17/0.22 A
Rated speed	1360/1550 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	60/63 dB (A)
Condensator	1.5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Aerodynamic characteristic

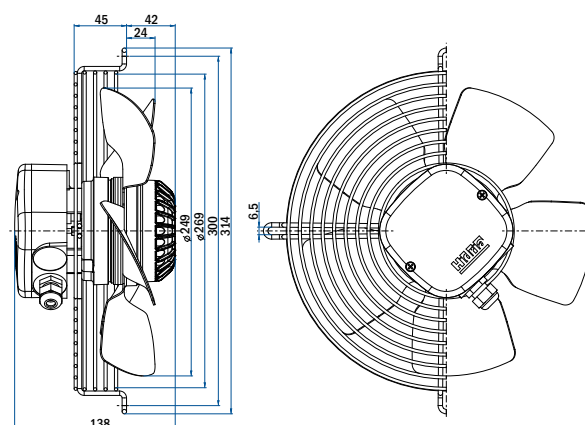


Fan characteristic measured in short bell mouth with guard grill.



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2528A-4M-2516	0309-4-0211	3.4
Blowing	R09R-2528P-4M-2516	0309-4-0261	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-2528A-4M-2516	On request	
Blowing	R09P-2528P-4M-2516	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-2528A-4M-2516	On request	
Blowing	R09E-2528P-4M-2516	On request	

General notes

Connection diagrams:

Sucking	0301-1-0026	See section
Blowing	0301-1-0002	Connection diagrams

Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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Diameter:

300 mm

R09_-3028_-4M-3509



Nominal data according to standard EN 60335:

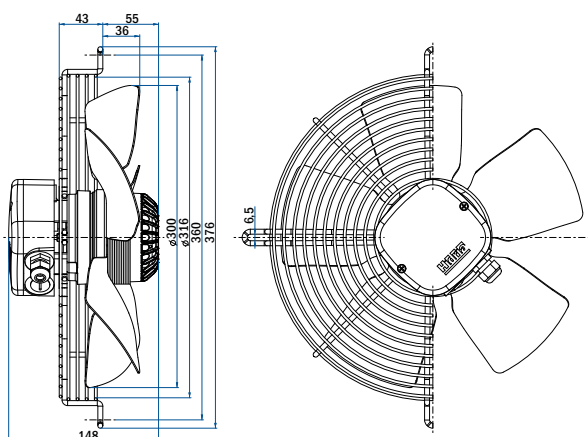
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	74/92 W
Rated current	0.34/0.4 A
Rated speed	1330/1470 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	67/70 dB (A)
Condensator	2.5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Is not subject to the EU regulation 327/2011.

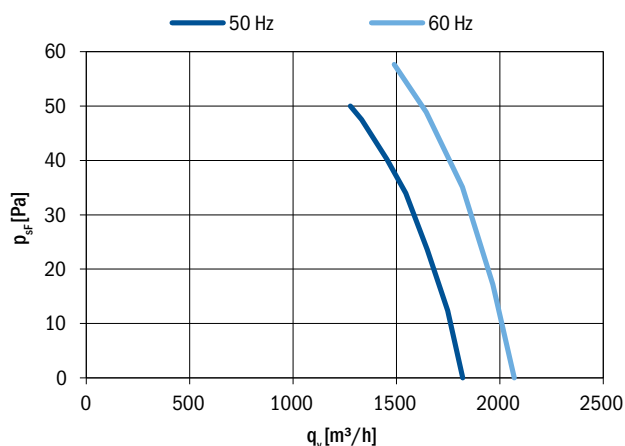
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3028A-4M-3509	0309-4-0100	3.4
Blowing	R09R-3028P-4M-3509	0309-4-0121	



Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3028A-4M-3509	On request	
Blowing	R09P-3028P-4M-3509	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3028A-4M-3509	On request	
Blowing	R09E-3028P-4M-3509	On request	

General notes

Connection diagrams:

Sucking 0301-1-0026 See section
Blowing 0301-1-0002 Connection diagrams

Guard grills & wall-plates See section Accessories

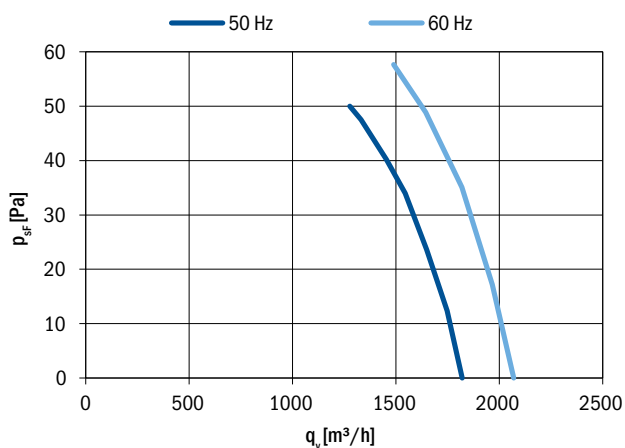
Standards compliance See introduction page

R09_-3028_-4T-2513**Diameter:****300 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	72/81 W
Rated current	0.18/0.16/0.31/0.28 A
Rated speed	1300/1440 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	66/69 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Is not subject to the EU regulation 327/2011.

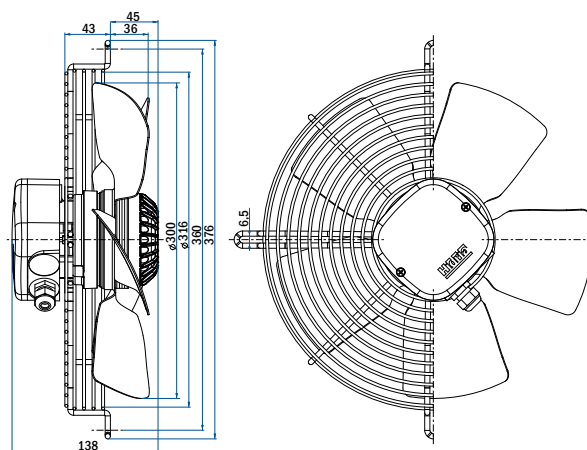
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3028A-4T-2513	0309-4-0059	3.0
Blowing	R09R-3028P-4T-2513	0309-4-0035	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3028A-4T-2513	On request	
Blowing	R09P-3028P-4T-2513	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3028A-4T-2513	On request	
Blowing	R09E-3028P-4T-2513	On request	

General notes

Connection diagrams:

Sucking 0301-1-0049 See section
 Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

315 mm

R09_-3132_-4M-3509



Nominal data according to standard EN 60335:

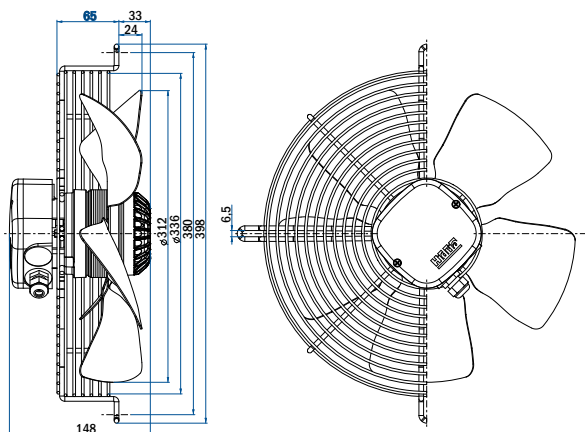
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	68/117 W
Rated current	0.38/0.51 A
Rated speed	1340/1490 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55/45 °C
Sound power level A weighted	68/72 dB (A)
Condensator	3.15 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Is not subject to the EU regulation 327/2011.

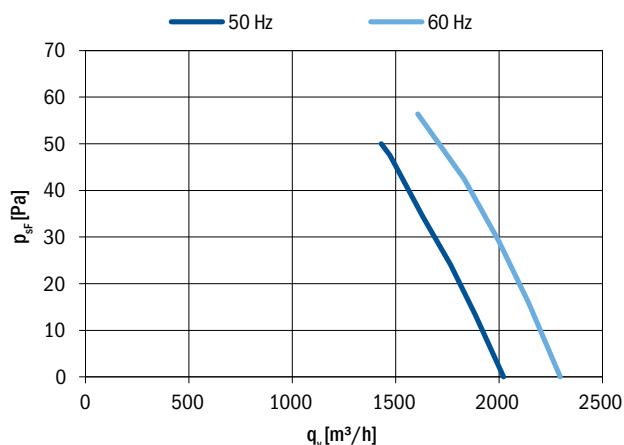
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3132A-4M-3509	0309-4-0048	3.5
Blowing	R09R-3132P-4M-3509	0309-4-0075	



Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3132A-4M-3509	On request	
Blowing	R09P-3132P-4M-3509	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3132A-4M-3509	On request	
Blowing	R09E-3132P-4M-3509	On request	

General notes

Connection diagrams:

Sucking 0301-1-0026 See section
Blowing 0301-1-0002 Connection diagrams

Guard grills & wall-plates See section Accessories

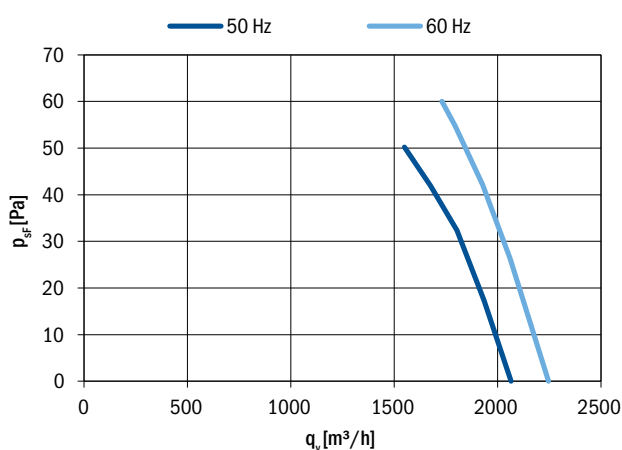
Standards compliance See introduction page

R09_-3132_-4T-3524**Diameter:****315 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	80/102 W
Rated current	0.20/0.34/0.19/0.33 A
Rated speed	1350/1500 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	68/72 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Is not subject to the EU regulation 327/2011.

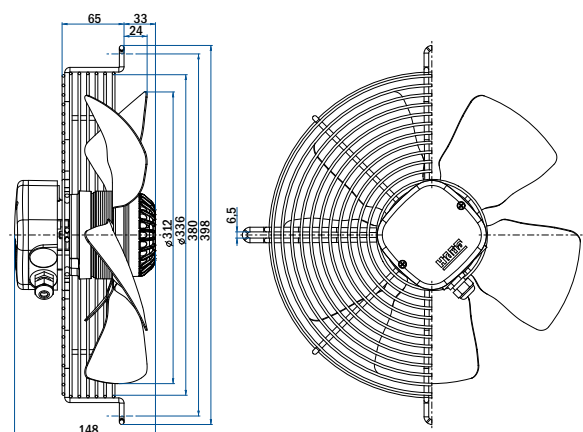
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3132A-4T-3524	0309-4-0130	4.0
Blowing	R09R-3132P-4T-3524	0309-4-0091	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3132A-4T-3524	On request	
Blowing	R09P-3132P-4T-3524	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3132A-4T-3524	On request	
Blowing	R09E-3132P-4T-3524	On request	

General notes

Connection diagrams:

Sucking 0301-1-0049 See section
 Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

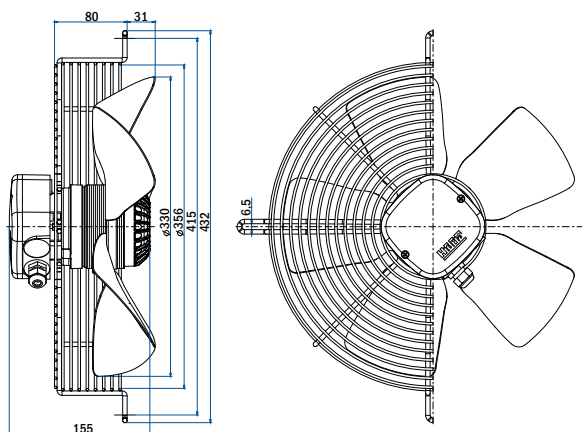
Diameter:

330 mm



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3332A-4M-4240	0309-4-0264	3.5
Blowing	R09R-3332P-4M-4240	0309-4-0265	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3332A-4M-4240	On request	
Blowing	R09P-3332P-4M-4240	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3332A-4M-4240	On request	
Blowing	R09E-3332P-4M-4240	On request	

R09_-3332_-4M-4240

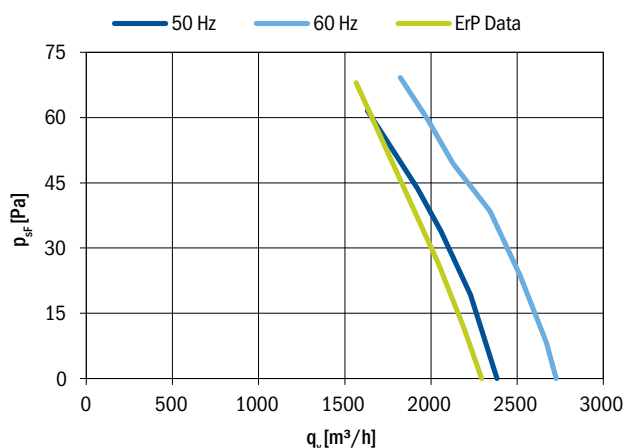
Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	130/170 W
Rated current	0.58/0.78 A
Rated speed	1330/1480 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	70/72 dB (A)
Condensator	4 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	25.2 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.9
Variable speed drive	NO
Power input	143 W
Air flow	1478 m³/h
Pressure drop	91 Pa
Speed	1300 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

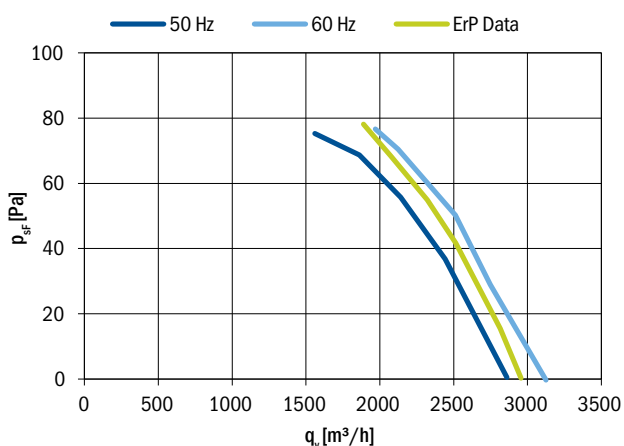
Standards compliance See introduction page

R09_-3532_-4M-4237**Diameter:****350 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	130/165 W
Rated current	0.58/0.72 A
Rated speed	1280/1350 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/65 °C
Sound power level A weighted	71/73 dB (A)
Condensator	4 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	26.2 %
Measurement category	A
Efficiency category	static
Efficiency grade N	37.7
Variable speed drive	N0
Power input	149 W
Air flow	1889 m³/h
Pressure drop	78 Pa
Speed	1285 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

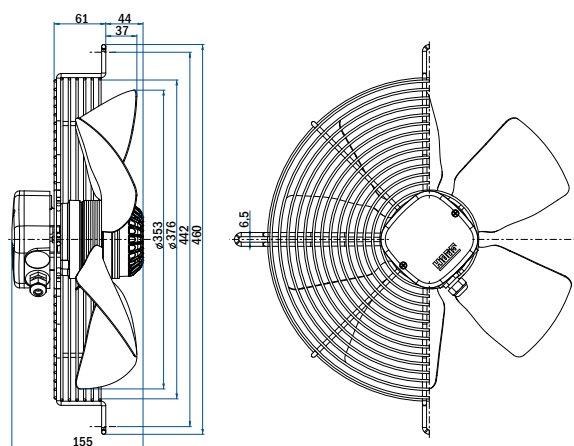
Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3532A-4M-4237	0309-4-0108	4.0
Blowing	R09R-3532P-4M-4237	0309-4-0221	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3532A-4M-4237	On request	
Blowing	R09P-3532P-4M-4237	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3532A-4M-4237	On request	
Blowing	R09E-3532P-4M-4237	On request	

Diameter:

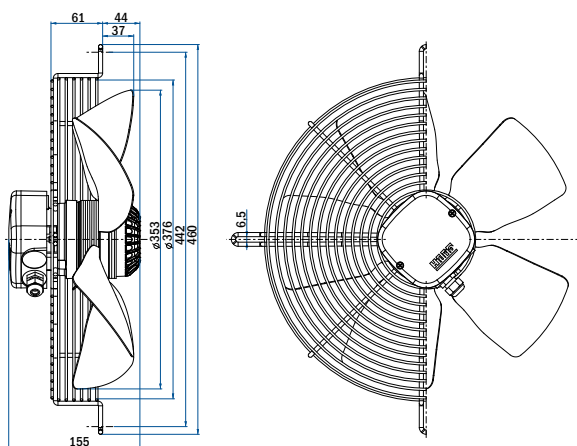
350 mm

R09_-3532_-4T-4203



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3532A-4T-4203	0309-4-0222	4.0
Blowing	R09R-3532P-4T-4203	0309-4-0223	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3532A-4T-4203	On request	
Blowing	R09P-3532P-4T-4203	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3532A-4T-4203	On request	
Blowing	R09E-3532P-4T-4203	On request	

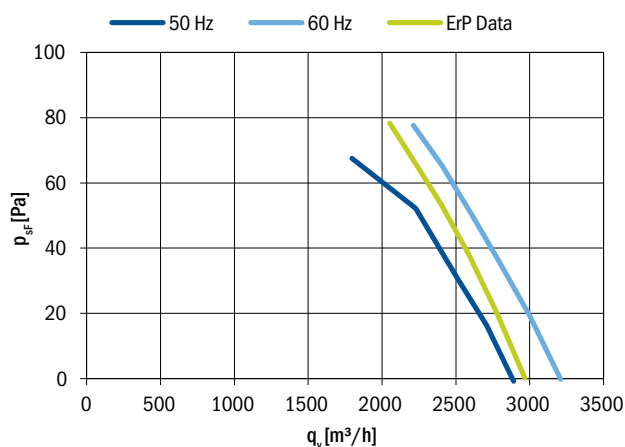
Nominal data according to standard EN 60335:

Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	135/175 W
Rated current	0.31/0.54/0.32/0.55 A
Rated speed	1340/1460 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	40/55 °C
Sound power level A weighted	72/75 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	25.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.6
Variable speed drive	NO
Power input	168 W
Air flow	2051 m³/h
Pressure drop	78 Pa
Speed	1327 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0049 See section
Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

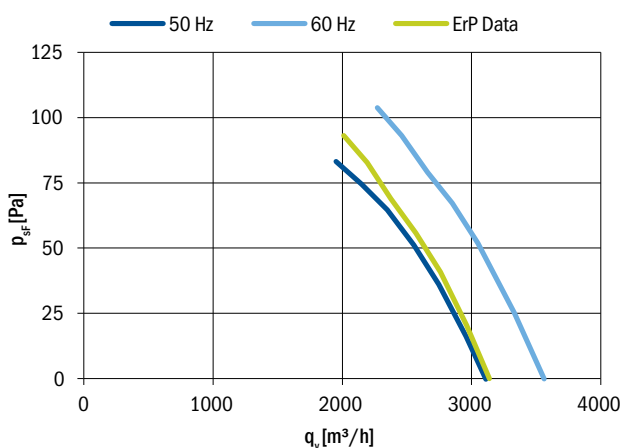
Standards compliance See introduction page

R11_-3530_-4M-3852**Diameter:****350 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	175/210 W
Rated current	0.8/1.15 A
Rated speed	1410/1570 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60/50 °C
Sound power level A weighted	
Condensator	4 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.2
Variable speed drive	NO
Power input	170 W
Air flow	2012 m³/h
Pressure drop	93 Pa
Speed	1411 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

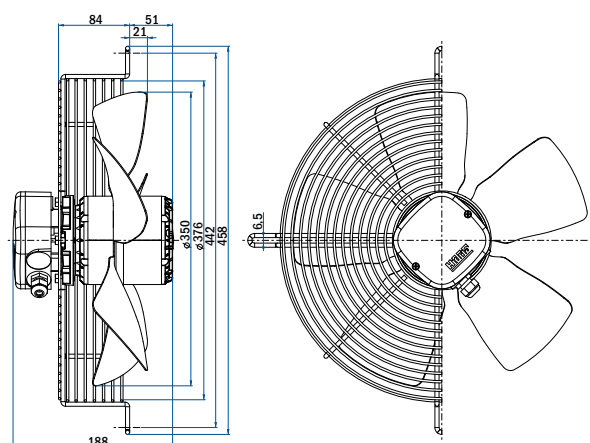
Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-3530A-4M-3852	0311-4-0297	6.0
Blowing	R11R-3530P-4M-3852	0311-4-0404	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-3530A-4M-3852	On request	
Blowing	R11P-3530P-4M-3852	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-3530A-4M-3852	On request	
Blowing	R11E-3530P-4M-3852	On request	

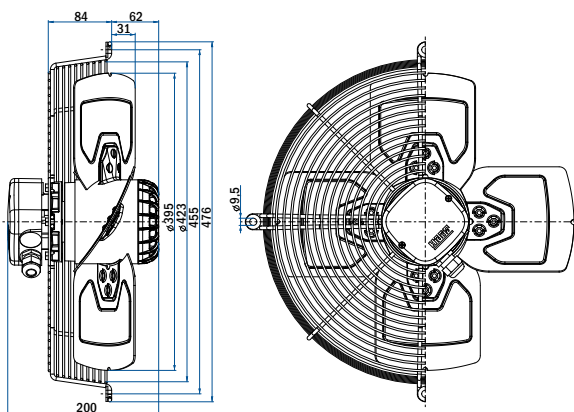
Diameter:

400 mm



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4030A-4M-5137	0311-4-0192	6.1
Blowing	R11R-4030P-4M-5137	0311-4-0193	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4030A-4M-5137	On request	
Blowing	R11P-4030P-4M-5137	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4030A-4M-5137	On request	
Blowing	R11E-4030P-4M-5137	On request	

R11_-4030_-4M-5137

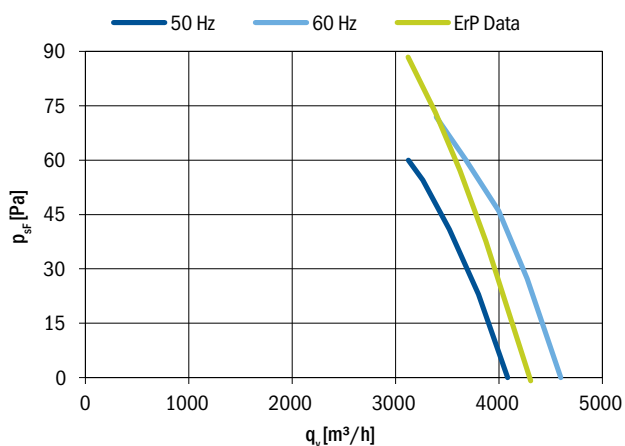
Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	200/265 W
Rated current	0.9/1.15 A
Rated speed	1345/1500 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65/45 °C
Sound power level A weighted	72/76 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	32.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	42.5
Variable speed drive	NO
Power input	228 W
Air flow	3121 m³/h
Pressure drop	88 Pa
Speed	1375 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R11_-4030_-4T2-3830

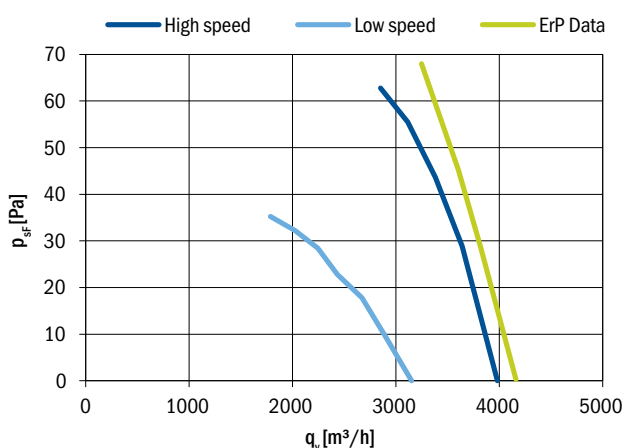
Diameter:

400 mm

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	195/130 W
Rated current	0.34/0.21 A
Rated speed	1320/1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	73/66 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:	
Overall efficiency	31.3 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.8
Variable speed drive	NO
Power input	218 W
Air flow	2840 m³/h
Pressure drop	90 Pa
Speed	1332 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking	0301-1-0048	See section
Blowing	0301-1-0048	Connection diagrams

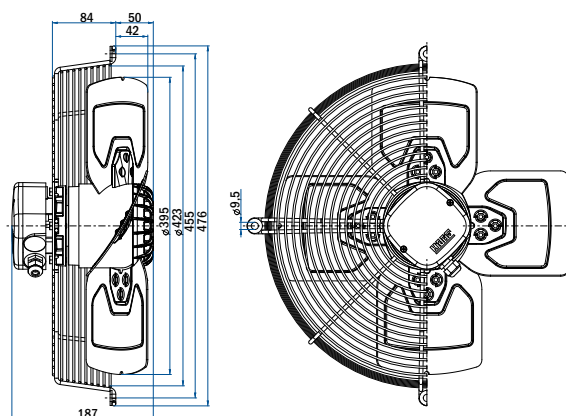
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page



COMPLIANT TO
ErP 2015

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4030A-4T2-3830	0311-4-0034	5.7
Blowing	R11R-4030P-4T2-3830	0311-4-0042	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4030A-4T2-3830	On request	
Blowing	R11P-4030P-4T2-3830	On request	

Fan without guard grill

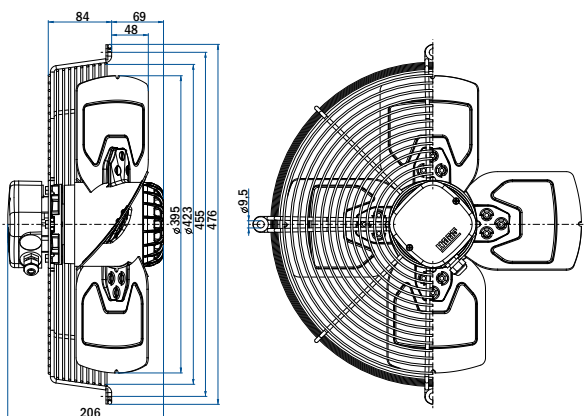
Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4030A-4T2-3830	On request	
Blowing	R11E-4030P-4T2-3830	On request	

400 mm

R11_-4035_-4T2-5745



Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4035A-4T2-5745	0311-4-0159	6.3
Blowing	R11R-4035P-4T2-5745	0311-4-0049	



Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4035A-4T2-5745	On request	8.5
Blowing	R11P-4035P-4T2-5745	0311-4-0226	

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4035A-4T2-5745	On request	
Blowing	R11E-4035P-4T2-5745	On request	

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50/60 Hz
Speed	high/low
Rated power input	280/220/420/290 W
Rated current	0.60/0.35/0.70/0.47 A
Rated speed	1400/1190/1585/1065 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/40 °C
Sound power level A weighted	75/71/78/71 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	30.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.7
Variable speed drive	NO
Power input	279 W
Air flow	3378 m³/h
Pressure drop	95 Pa
Speed	1400 RPM
Specific ratio	1.00

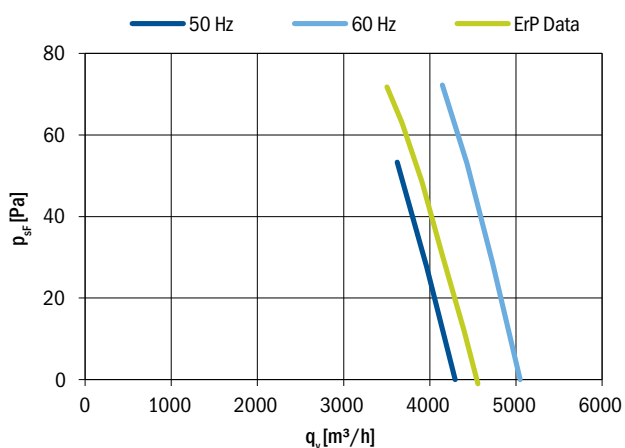
General notes		
Connection diagrams:		
Sucking	0301-1-0048	See section
Blowing	0301-1-0048	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R11_-4225_-4M-5715**Diameter:****420 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	230/300 W
Rated current	1.15/1.30 A
Rated speed	1400/1600 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50/70 °C
Sound power level A weighted	70/73 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	30.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.1
Variable speed drive	NO
Power input	241 W
Air flow	3056 m³/h
Pressure drop	93 Pa
Speed	1365 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

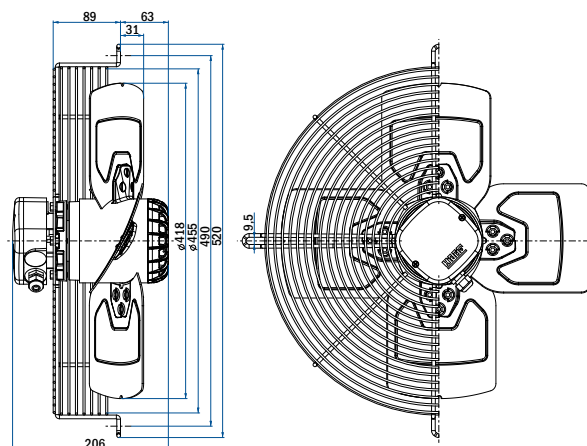
Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4225A-4M-5715	0311-4-0265	6.3
Blowing	R11R-4225P-4M-5715	0311-4-0266	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4225A-4M-5715	On request	
Blowing	R11P-4225P-4M-5715	On request	

Fan without guard grill

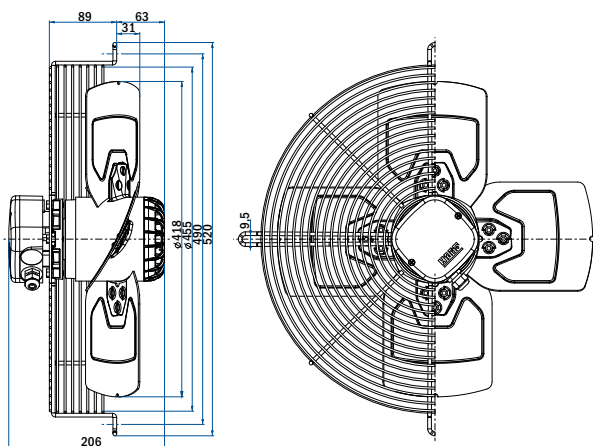
Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4225A-4M-5715	On request	
Blowing	R11E-4225P-4M-5715	On request	

420 mm

R11_-4225_-4T2-5745



Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4225A-4T2-5745	0311-4-0277	7.8
Blowing	R11R-4225P-4T2-5745	0311-4-0286	



Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4225A-4T2-5745	On request	
Blowing	R11P-4225P-4T2-5745	On request	

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4225A-4T2-5745	On request	
Blowing	R11E-4225P-4T2-5745	On request	

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50/60 Hz
Speed	high/low
Rated power input	215/165/305/220 W
Rated current	0.51/0.26/0.56/0.37 A
Rated speed	1410/1240/1410/1300 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70/60/60 °C
Sound power level A weighted	72/69/73/71 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	33.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	43.7
Variable speed drive	NO
Power input	245 W
Air flow	3191 m³/h
Pressure drop	96 Pa
Speed	1416 RPM
Specific ratio	1.00

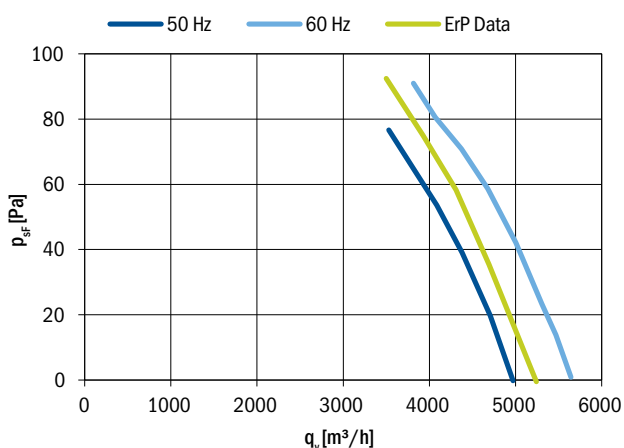
General notes		
Connection diagrams:		
Sucking	0301-1-0048	See section
Blowing	0301-1-0048	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R11_-4525_-4M-5765**Diameter:****450 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	260/370 W
Rated current	1.13/1.63 A
Rated speed	1310/1420 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65/50 °C
Sound power level A weighted	72/75 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	31.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.5
Variable speed drive	N0
Power input	275 W
Air flow	3501 m³/h
Pressure drop	92 Pa
Speed	1309 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

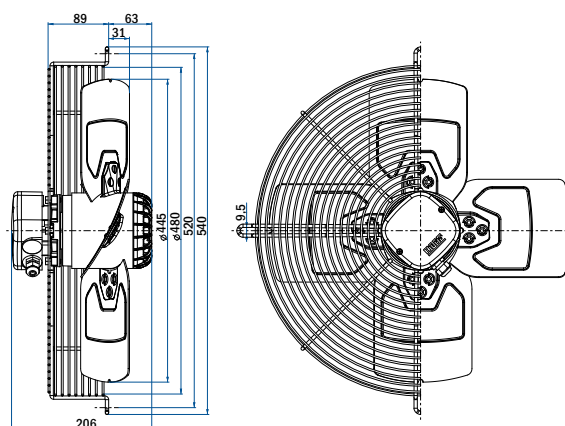
Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4525A-4M-5765	0311-4-0441	6.3
Blowing	R11R-4525P-4M-5765	0311-4-0474	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4525A-4M-5765	On request	
Blowing	R11P-4525P-4M-5765	On request	

Fan without guard grill

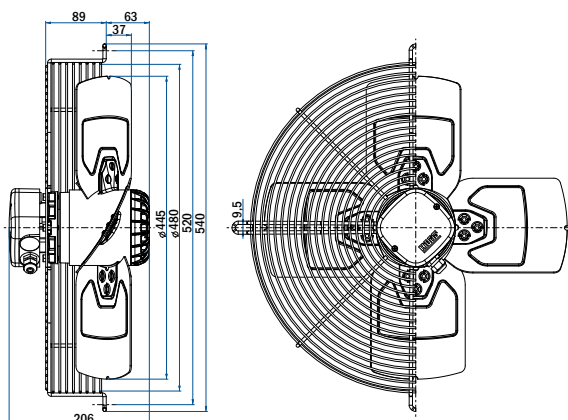
Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4525A-4M-5765	On request	
Blowing	R11E-4525P-4M-5765	On request	

450 mm

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	310 W
Rated current	1.4 A
Rated speed	1270 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	74 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	29.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	38.8
Variable speed drive	NO
Power input	324 W
Air flow	3965 m³/h
Pressure drop	91 Pa
Speed	1291 RPM
Specific ratio	1.00

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4530A-4M-5749	0311-4-0240	6.3
Blowing	R11R-4530P-4M-5749	0311-4-0270	



Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4530A-4M-5749	On request	
Blowing	R11P-4530P-4M-5749	On request	

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4530A-4M-5749	On request	
Blowing	R11E-4530P-4M-5749	On request	

Flow Rate q_v [m³/h]	Permeability p_f [Pa] (50 Hz)	Permeability p_f [Pa] (ErP Data)
3200	88	-
4000	72	92
4500	55	75
5000	30	45
5500	0	15
5800	-	0

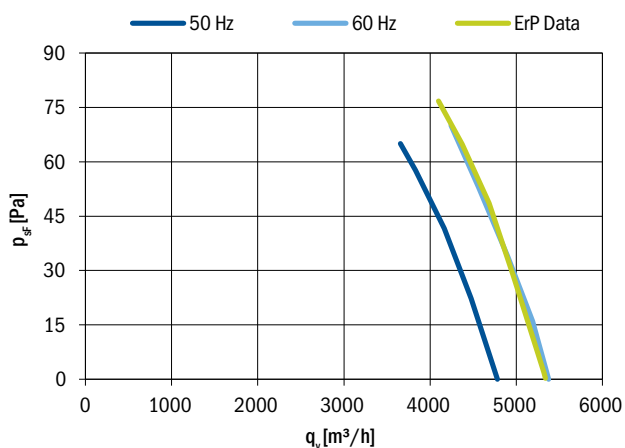
General notes		
Connection diagrams:		
Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

R11_-4525_-4T-5136**Diameter:****450 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400/230
Frequency	50/60 Hz
Rated power input	230/310 W
Rated current	0.55/0.95/0.55/0.95 A
Rated speed	1335/1430 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	75/72 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	33.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	43.5
Variable speed drive	NO
Power input	283 W
Air flow	3672 m³/h
Pressure drop	98 Pa
Speed	1358 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

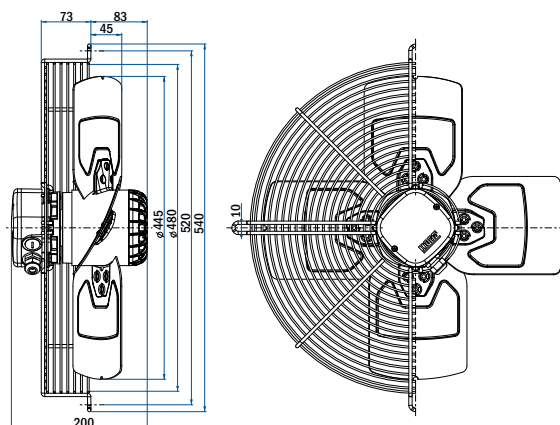
Sucking 0301-1-0044 See section
 Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4525A-4T-5136	0311-4-0117	6.3
Blowing	R11R-4525P-4T-5136	0311-4-0082	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4525A-4T-5136	On request	
Blowing	R11P-4525P-4T-5136	On request	

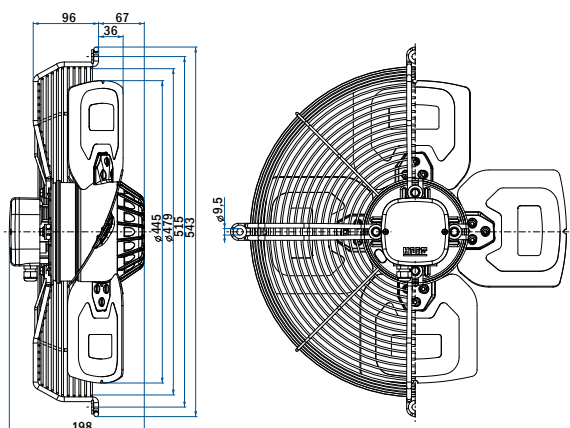
Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4525A-4T-5136	On request	
Blowing	R11E-4525P-4T-5136	On request	

450 mm

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Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4525A-4M-5009	0313-4-0003	10.0
Blowing	R13R-4525P-4M-5009	0313-4-0082	



Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4525A-4M-5009	On request	
Blowing	R13P-4525P-4M-5009	On request	

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4525A-4M-5009	On request	
Blowing	R13E-4525P-4M-5009	On request	

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	310/460 W
Rated current	1.4/2.0 A
Rated speed	1410/1630 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/65 °C
Sound power level A weighted	74/ 79 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	33.2 %
Measurement category	A
Efficiency category	static
Efficiency grade N	42.3
Variable speed drive	NO
Power input	365 W
Air flow	3703 m³/h
Pressure drop	124 Pa
Speed	1390 RPM
Specific ratio	1.00

Figure 10 is a line graph showing the relationship between the permeability coefficient p_f [Pa] (Y-axis) and the flow rate q_v [m³/h] (X-axis) for a 50 Hz and 60 Hz system. The X-axis ranges from 0 to 7000 m³/h, and the Y-axis ranges from 0 to 150 Pa. The 50 Hz curve (dark blue) starts at approximately (3800, 110) and ends at (5500, 0). The 60 Hz curve (light blue) starts at approximately (4200, 130) and ends at (6200, 0). The ErP Data (yellow) is a curve that starts at approximately (3800, 125) and ends at (5500, 0).

Connection diagrams:		
Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-4530_-4M-7039

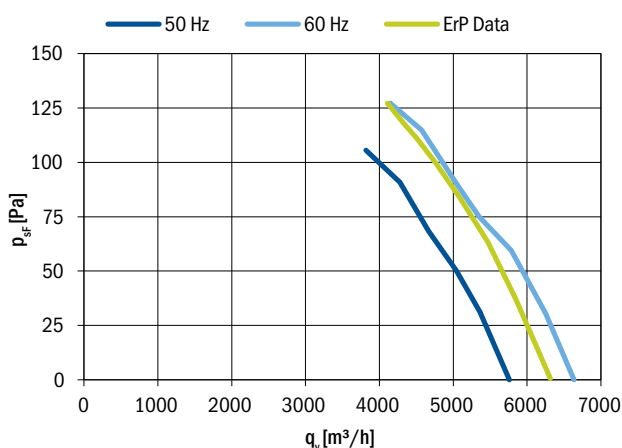
Diameter:

450 mm

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	375/570 W
Rated current	1.7/2.5 A
Rated speed	1390/1570 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/55 °C
Sound power level A weighted	76/81 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:	
Overall efficiency	32.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.2
Variable speed drive	NO
Power input	427 W
Air flow	4111 m³/h
Pressure drop	127 Pa
Speed	1377 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking	0301-1-0035	See section
Blowing	0301-1-0029	Connection diagrams

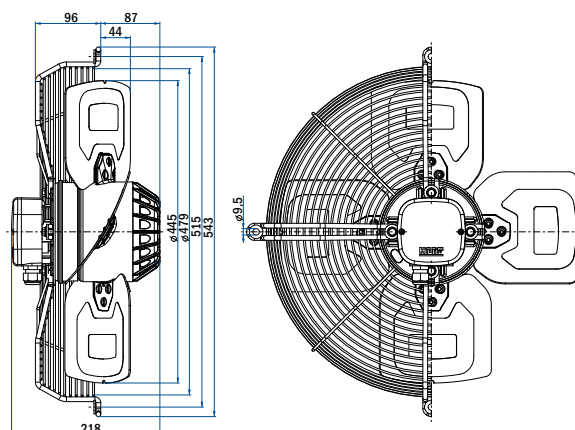
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page



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Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530A-4M-7039	0313-4-0178	12.1
Blowing	R13R-4530P-4M-7039	0313-4-0166	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530A-4M-7039	On request	
Blowing	R13P-4530P-4M-7039	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530A-4M-7039	On request	
Blowing	R13E-4530P-4M-7039	On request	

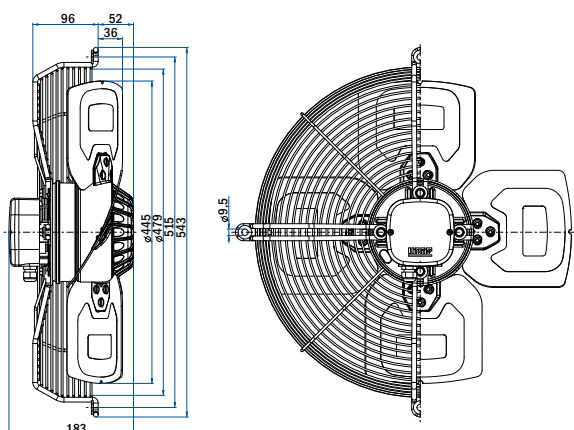
Diameter:

450 mm



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4525A-4T-3529	0313-4-0138	8.4
Blowing	R13R-4525P-4T-3529	0313-4-0059	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4525A-4T-3529	On request	
Blowing	R13P-4525P-4T-3529	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4525A-4T-3529	On request	
Blowing	R13E-4525P-4T-3529	On request	

R13_-4525_-4T-3529

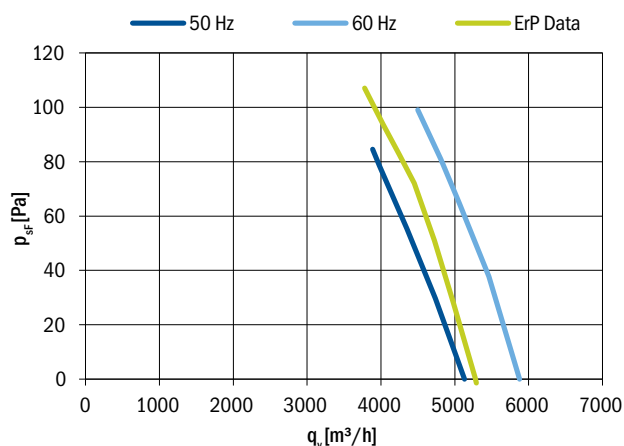
Nominal data according to standard EN 60335:

Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	290/410 W
Rated current	0.81/1.40/0.81/1.40 A
Rated speed	1350/1530 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	40/65 °C
Sound power level A weighted	72/78 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	33.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	42.3
Variable speed drive	NO
Power input	344 W
Air flow	3489 m³/h
Pressure drop	123 Pa
Speed	1366 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0034 See section
Blowing 0301-1-0034 Connection diagrams

Guard grills & wall-plates See section Accessories

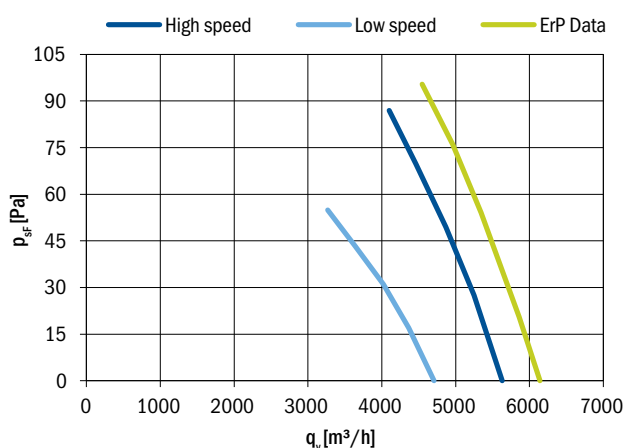
Standards compliance See introduction page

R13_-4530_-4T2-35100**Diameter:****450 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	360/230 W
Rated current	0.70/0.39 A
Rated speed	1350/1100 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	78/71 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	32.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.0
Variable speed drive	NO
Power input	384 W
Air flow	3904 m³/h
Pressure drop	116 Pa
Speed	1294 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

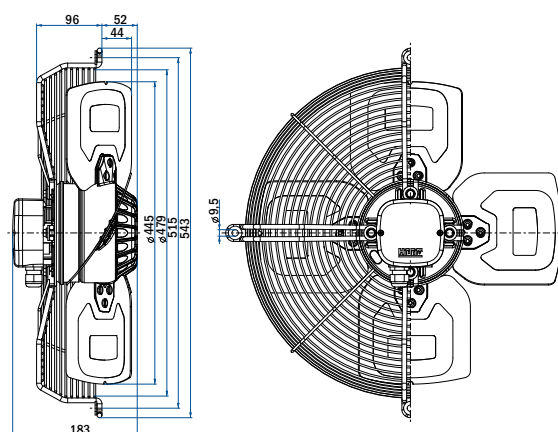
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530A-4T2-35100	0313-4-0465	8.4
Blowing	R13R-4530P-4T2-35100	0313-4-0467	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530A-4T2-35100	On request	
Blowing	R13P-4530P-4T2-35100	On request	

Fan without guard grill

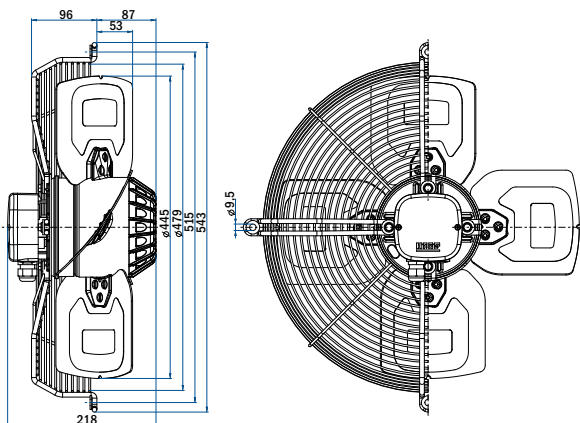
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530A-4T2-35100	On request	
Blowing	R13E-4530P-4T2-35100	On request	

450 mm

R13_-4535_-4T-70102



Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4535A-4T-70102	0313-4-0454	13.0
Blowing	R13R-4535P-4T-70102	On request	



Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4535A-4T-70102	On request	
Blowing	R13P-4535P-4T-70102	On request	

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4535A-4T-70102	On request	
Blowing	R13E-4535P-4T-70102	On request	

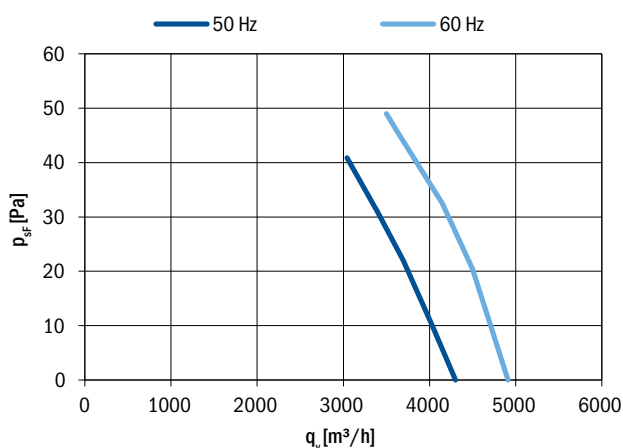
Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	530/820 W
Rated current	1.08/1.90/1.37/2.40 A
Rated speed	1390/1565 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	79/83 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	32.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.2
Variable speed drive	NO
Power input	525 W
Air flow	4952 m³/h
Pressure drop	129 Pa
Speed	1394 RPM
Specific ratio	1.00

General notes		
Connection diagrams:		
Sucking	0301-1-0034	See section
Blowing	0301-1-0034	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-4535_-6M-5027**Diameter:****450 mm****Nominal data according to standard EN 60335:**

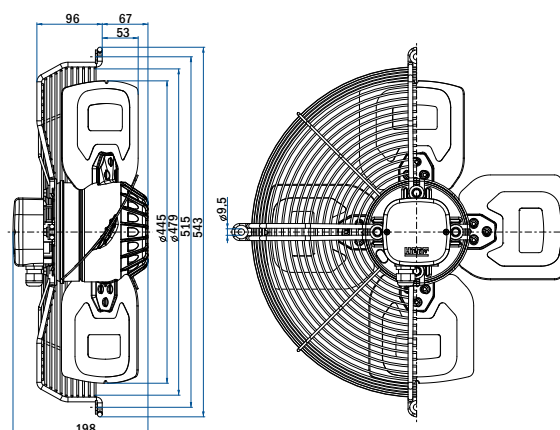
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	195/240 W
Rated current	1.0/1.05 A
Rated speed	910/1040 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50/50 °C
Sound power level A weighted	69/73 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4535A-6M-5027	0313-4-0045	10.0
Blowing	R13R-4535P-6M-5027	0313-4-0201	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4535A-6M-5027	On request	
Blowing	R13P-4535P-6M-5027	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4535A-6M-5027	On request	
Blowing	R13E-4535P-6M-5027	On request	

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
 Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

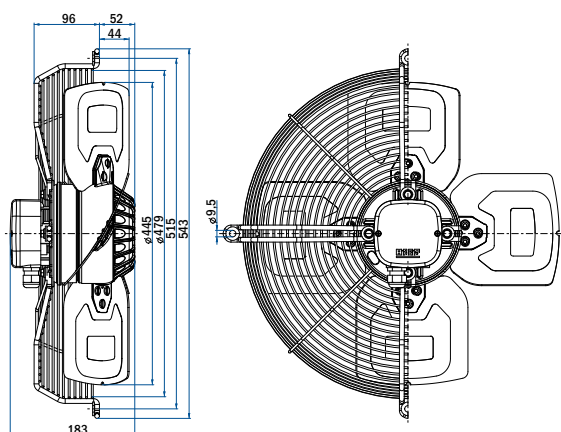
450 mm

R13_-4530_-6T2-3525



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530A-6T2-3525	0313-4-0037	8.4
Blowing	R13R-4530P-6T2-3525	0313-4-0112	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530A-6T2-3525	On request	
Blowing	R13P-4530P-6T2-3525	On request	

Fan without guard grill

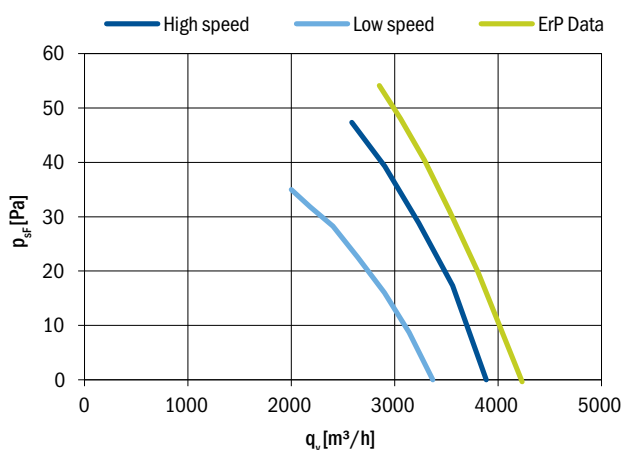
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530A-6T2-3525	On request	
Blowing	R13E-4530P-6T2-3525	On request	

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	120/85 W
Rated current	0.28/0.14 A
Rated speed	915/770 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	68/63 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	28.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.1
Variable speed drive	NO
Power input	146 W
Air flow	2851 m³/h
Pressure drop	54 Pa
Speed	909 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

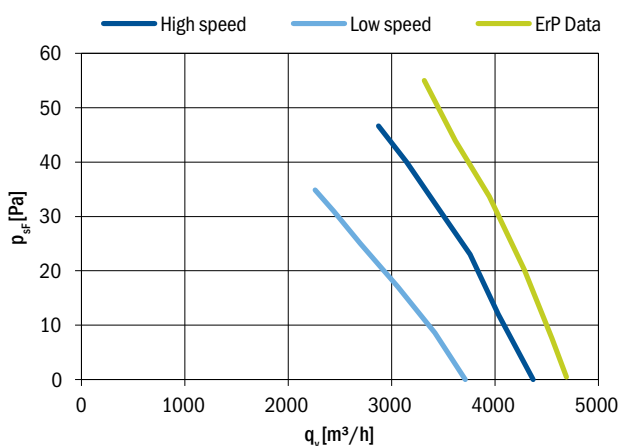
Connection diagrams:		
Sucking	0301-1-0033	See section
Blowing	0301-1-0033	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-4535_-6T2-3526**Diameter:****450 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	160/110 W
Rated current	0.37/0.19 A
Rated speed	915/765 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	69/64 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	25.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.5
Variable speed drive	N0
Power input	196 W
Air flow	3032 m³/h
Pressure drop	63 Pa
Speed	906 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

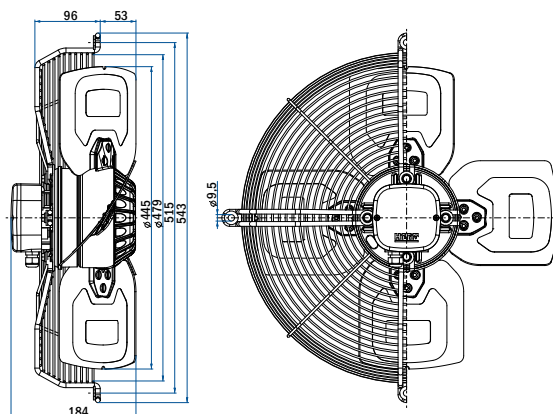
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4535A-6T2-3526	0313-4-0143	8.4
Blowing	R13R-4535P-6T2-3526	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4535A-6T2-3526	On request	
Blowing	R13P-4535P-6T2-3526	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4535A-6T2-3526	On request	
Blowing	R13E-4535P-6T2-3526	On request	

Diameter:

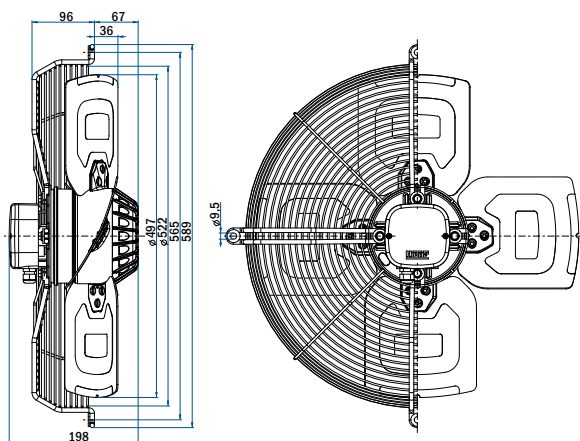
500 mm

R13_-5025_-4M-5009



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5025A-4M-5009	0313-4-0073	10.4
Blowing	R13R-5025P-4M-5009	0313-4-0222	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5025A-4M-5009	On request	
Blowing	R13P-5025P-4M-5009	On request	

Fan without guard grill

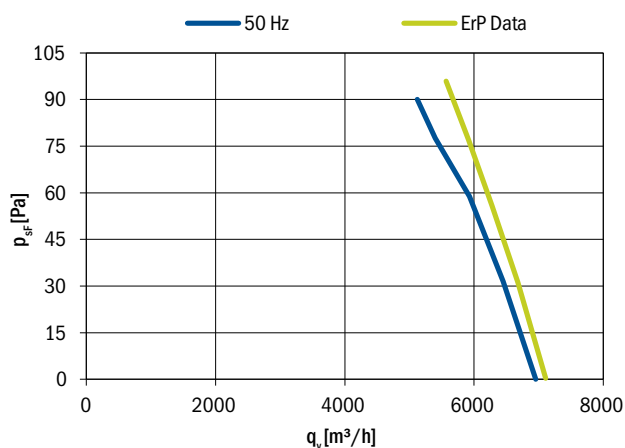
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5025A-4M-5009	On request	
Blowing	R13E-5025P-4M-5009	On request	

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	440 W
Rated current	2.0 A
Rated speed	1340 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	78 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	32.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.9
Variable speed drive	NO
Power input	488 W
Air flow	4844 m³/h
Pressure drop	122 Pa
Speed	1309 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

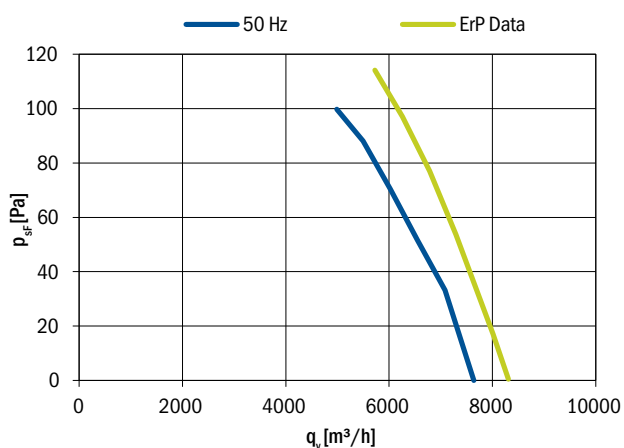
Connection diagrams:		
Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-5030_-4M-7012**Diameter:****500 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	550 W
Rated current	2.5 A
Rated speed	1300 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	82 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.8
Variable speed drive	N0
Power input	599 W
Air flow	5724 m³/h
Pressure drop	114 Pa
Speed	1273 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

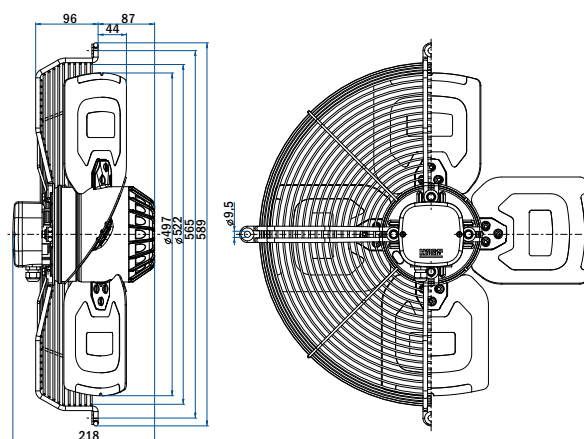
Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030A-4M-7012	0313-4-0011	12.5
Blowing	R13R-5030P-4M-7012	0313-4-0062	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030A-4M-7012	On request	
Blowing	R13P-5030P-4M-7012	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030A-4M-7012	On request	
Blowing	R13E-5030P-4M-7012	On request	

Diameter:

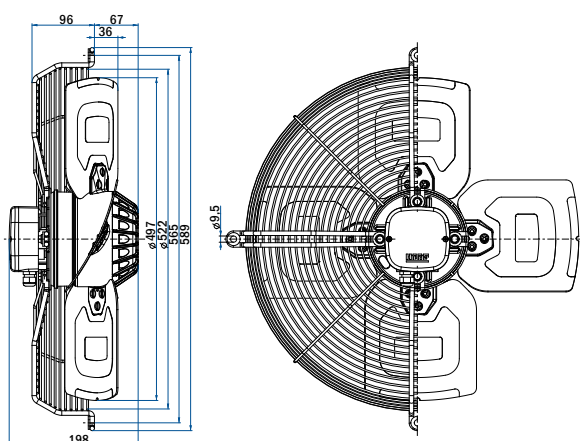
500 mm

R13_-5025_-4T2-5004



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5025A-4T2-5004	0313-4-0137	10.4
Blowing	R13R-5025P-4T2-5004	0313-4-0158	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5025A-4T2-5004	On request	
Blowing	R13P-5025P-4T2-5004	On request	

Fan without guard grill

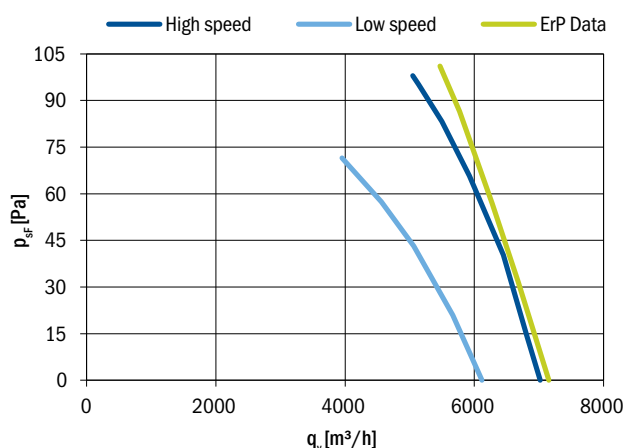
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5025A-4T2-5004	On request	
Blowing	R13E-5025P-4T2-5004	On request	

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	455/325 W
Rated current	0.95/0.53 A
Rated speed	1380/1150 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50/50 °C
Sound power level A weighted	78/74 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	33.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.9
Variable speed drive	NO
Power input	470 W
Air flow	4894 m³/h
Pressure drop	120 Pa
Speed	1368 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

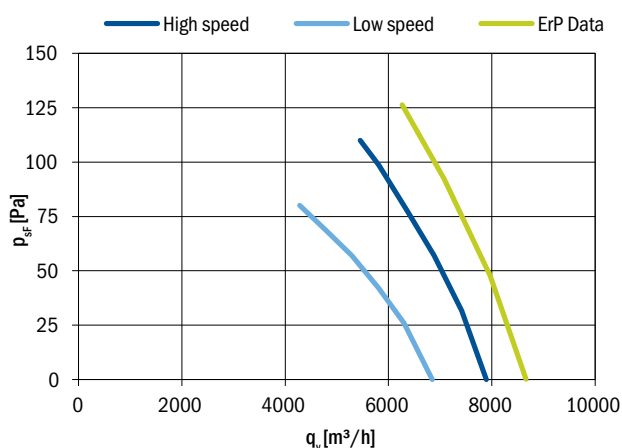
Connection diagrams:		
Sucking	0301-1-0033	See section
Blowing	0301-1-0033	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-5030_-4T2-7002**Diameter:****500 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	560/410 W
Rated current	1.25/0.70 A
Rated speed	1380/1170 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	81/75 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	33.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.1
Variable speed drive	NO
Power input	647 W
Air flow	5759 m³/h
Pressure drop	141 Pa
Speed	1365 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

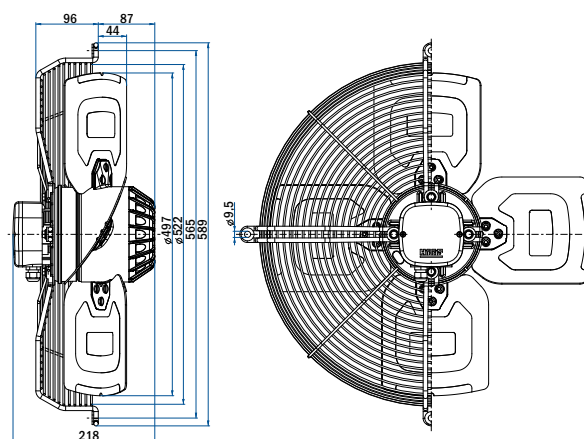
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030A-4T2-7002	0313-4-0006	12.5
Blowing	R13R-5030P-4T2-7002	0313-4-0097	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030A-4T2-7002	On request	
Blowing	R13P-5030P-4T2-7002	On request	

Fan without guard grill

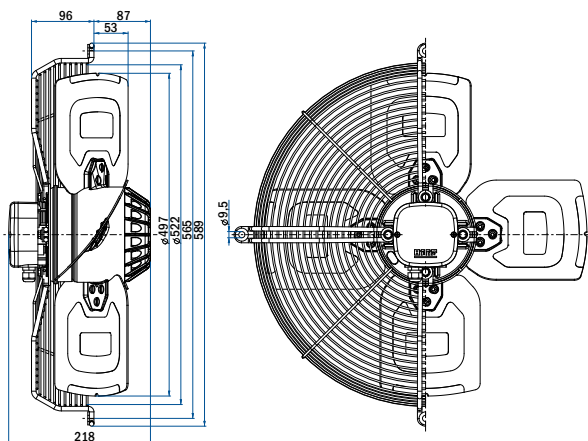
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030A-4T2-7002	On request	
Blowing	R13E-5030P-4T2-7002	On request	

500 mm

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	695/480 W
Rated current	1.30/0.78 A
Rated speed	1340/1070 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60/60 °C
Sound power level A weighted	81/75 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	29.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.1
Variable speed drive	NO
Power input	769 W
Air flow	6442 m³/h
Pressure drop	131 Pa
Speed	1324 RPM
Specific ratio	1.00

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5035A-4T2-7002	0313-4-0005	12.5
Blowing	R13R-5035P-4T2-7002	0313-4-0249	



Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5035A-4T2-7002	On request	
Blowing	R13P-5035P-4T2-7002	On request	

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5035A-4T2-7002	On request	
Blowing	R13E-5035P-4T2-7002	On request	

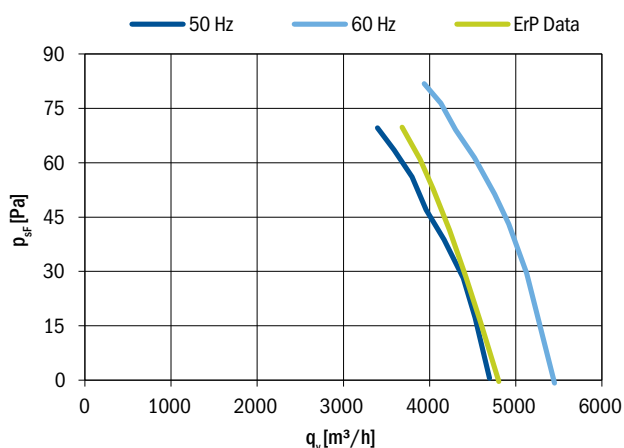
General notes		
Connection diagrams:		
Sucking	0301-1-0033	See section
Blowing	0301-1-0033	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-5025_-6M-7099**Diameter:****500 mm****Nominal data according to standard EN 60335:**

Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	230/300 W
Rated current	1.00/1.47 A
Rated speed	925/1050 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	79/82 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.3
Variable speed drive	NO
Power input	229 W
Air flow	3681 m³/h
Pressure drop	70 Pa
Speed	924 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

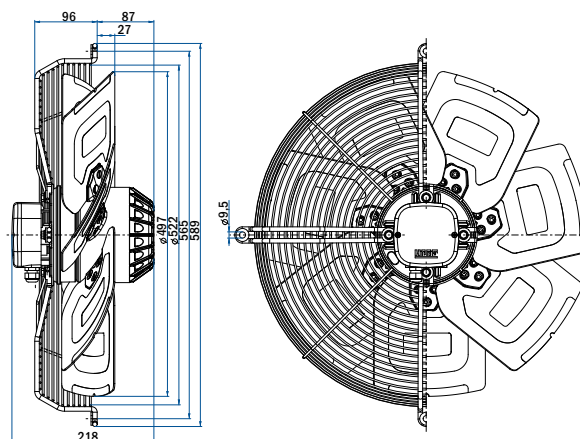
Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5025A-6M-7099	0313-4-0425	14.0
Blowing	R13R-5025P-6M-7099	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5025A-6M-7099	On request	
Blowing	R13P-5025P-6M-7099	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5025A-6M-7099	On request	
Blowing	R13E-5025P-6M-7099	On request	

Diameter:

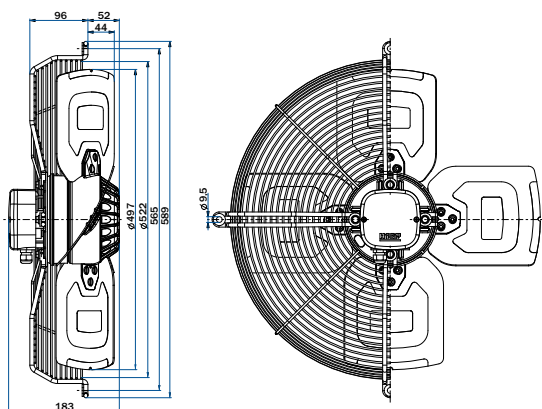
500 mm

R13_-5030_-6T2-3526



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030A-6T2-3526	0313-4-0046	10.4
Blowing	R13R-5030P-6T2-3526	0313-4-0111	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030A-6T2-3526	On request	
Blowing	R13P-5030P-6T2-3526	On request	

Fan without guard grill

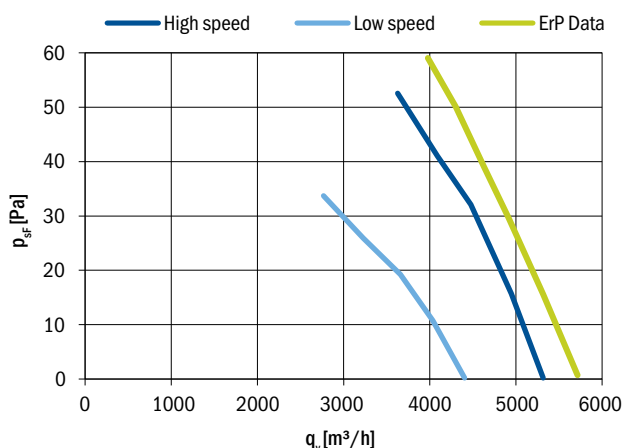
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030A-6T2-3526	On request	
Blowing	R13E-5030P-6T2-3526	On request	

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50/60 Hz
Speed	high/low
Rated power input	180/125/245/140 W
Rated current	0.44/0.21/0.45/0.25 A
Rated speed	890/710/990/680 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	73/65/76/65 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.1
Variable speed drive	NO
Power input	212 W
Air flow	3976 m³/h
Pressure drop	59 Pa
Speed	899 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R13_-5625_-4T2-7002

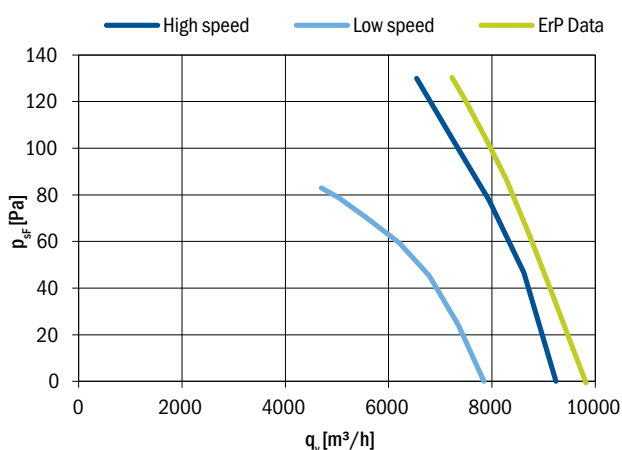
Diameter:

560 mm

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	670/450 W
Rated current	1.30/0.73 A
Rated speed	1360/1130 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65/65 °C
Sound power level A weighted	83/76 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:	
Overall efficiency	36.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	44.1
Variable speed drive	NO
Power input	682 W
Air flow	7223 m³/h
Pressure drop	130 Pa
Speed	1343 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking	0301-1-0033	See section
Blowing	0301-1-0033	Connection diagrams

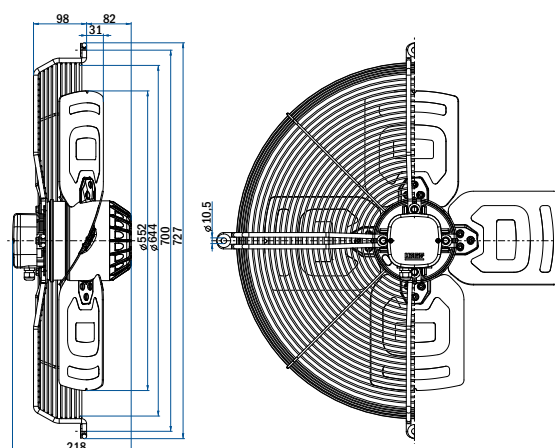
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page



COMPLIANT TO
ErP 2015

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5625A-4T2-7002	0313-4-0001	14.0
Blowing	R13R-5625P-4T2-7002	0313-4-0052	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5625A-4T2-7002	On request	
Blowing	R13P-5625P-4T2-7002	On request	

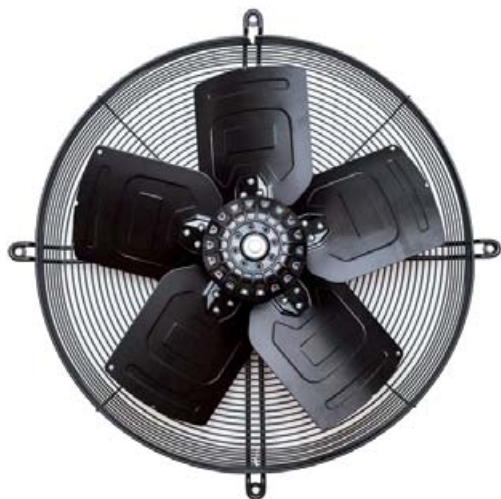
Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5625A-4T2-7002	On request	
Blowing	R13E-5625P-4T2-7002	On request	

Diameter:

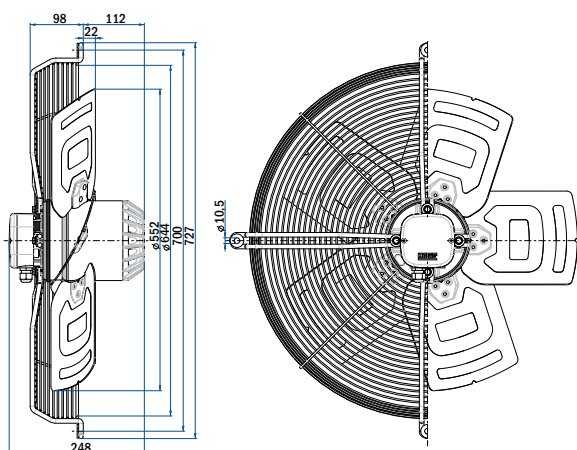
560 mm

R13_-5625_-6M-X093



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5625A-6M-X093	0313-4-0415	16.0
Blowing	R13R-5625P-6M-X093	0313-4-0442	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5625A-6M-X093	On request	
Blowing	R13P-5625P-6M-X093	On request	

Fan without guard grill

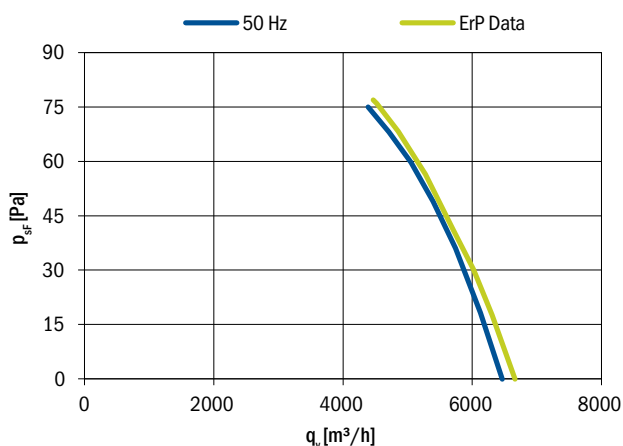
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5625A-6M-X093	On request	
Blowing	R13E-5625P-6M-X093	On request	

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	330 W
Rated current	1.5 A
Rated speed	845 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	73 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	32.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	42.5
Variable speed drive	NO
Power input	282 W
Air flow	4468 m³/h
Pressure drop	77 Pa
Speed	891 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

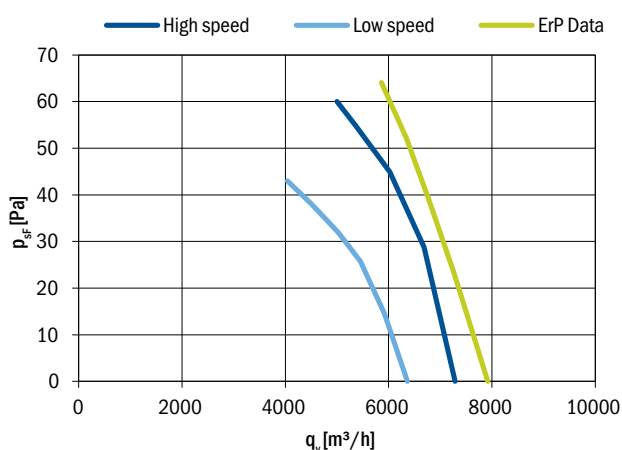
Connection diagrams:		
Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-5630_-6T2-5016**Diameter:****560 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	305/210 W
Rated current	0.70/0.36 A
Rated speed	920/780 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60/60 °C
Sound power level A weighted	72/68 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	30.8 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.0
Variable speed drive	NO
Power input	355 W
Air flow	5219 m³/h
Pressure drop	77 Pa
Speed	908 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

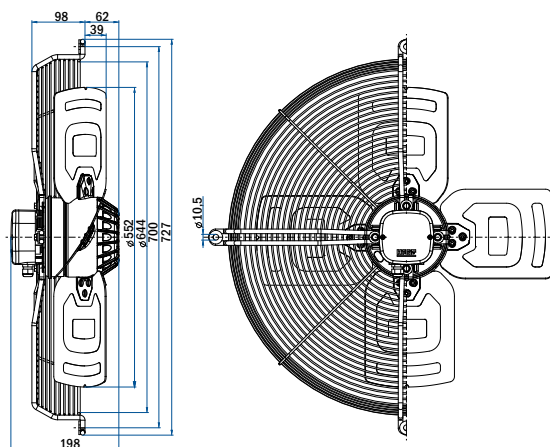
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5630A-6T2-5016	0313-4-0029	11.9
Blowing	R13R-5630P-6T2-5016	0313-4-0080	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5630A-6T2-5016	On request	
Blowing	R13P-5630P-6T2-5016	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5630A-6T2-5016	On request	
Blowing	R13E-5630P-6T2-5016	On request	

Diameter:

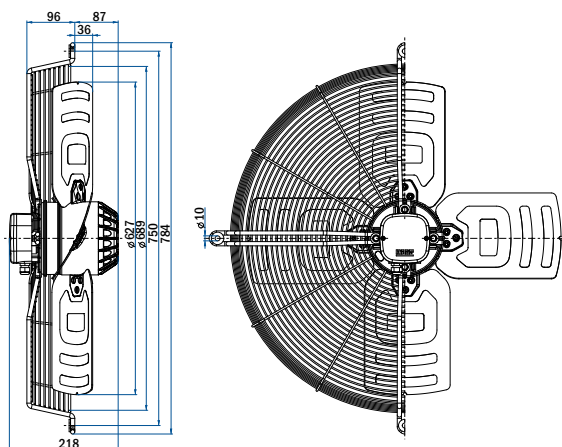
630 mm

R13_-6325_-6M-7019



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6325A-6M-7019	0313-4-0091	14.6
Blowing	R13R-6325P-6M-7019	0313-4-0105	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-6325A-6M-7019	On request	
Blowing	R13P-6325P-6M-7019	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6325A-6M-7019	On request	
Blowing	R13E-6325P-6M-7019	On request	

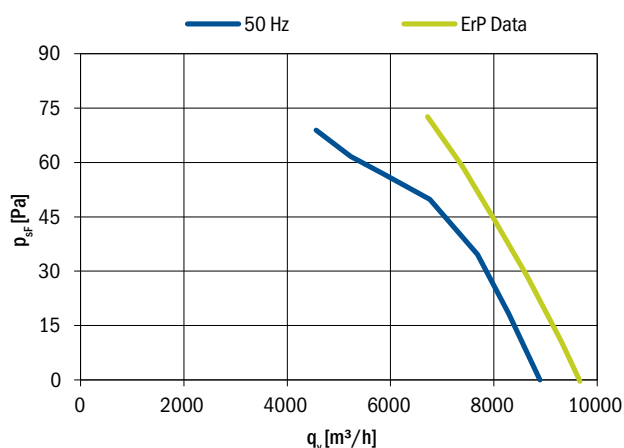
Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	400 W
Rated current	1.8 A
Rated speed	925 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	70 dB (A)
Condensator	12.5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	29.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	38.3
Variable speed drive	NO
Power input	434 W
Air flow	6714 m³/h
Pressure drop	73 Pa
Speed	879 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

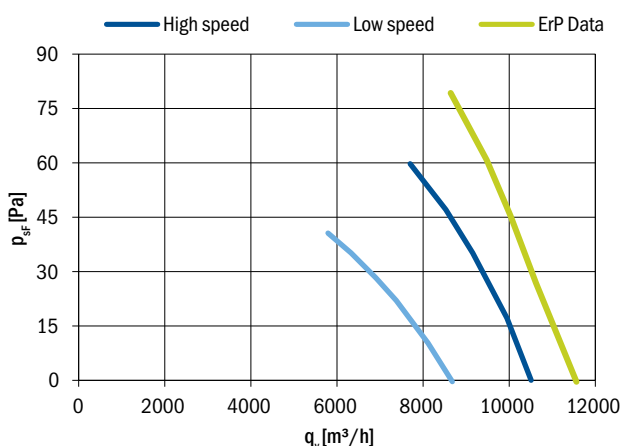
Standards compliance See introduction page

R13_-6330_-6T2-7042**Diameter:****630 mm****Nominal data according to standard EN 60335:**

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	630/400 W
Rated current	1.34/0.69 A
Rated speed	880/690 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	78/69 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	32.2 %
Measurement category	A
Efficiency category	static
Efficiency grade N	40.1
Variable speed drive	N0
Power input	573 W
Air flow	8608 m³/h
Pressure drop	79 Pa
Speed	894 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.
ErP characteristic measured in full bell mouth without guard grill.

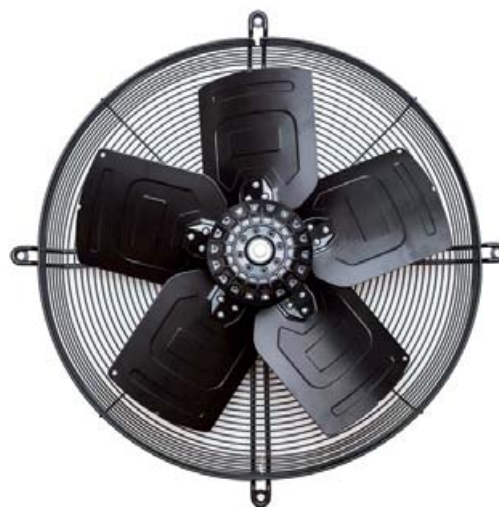
General notes

Connection diagrams:

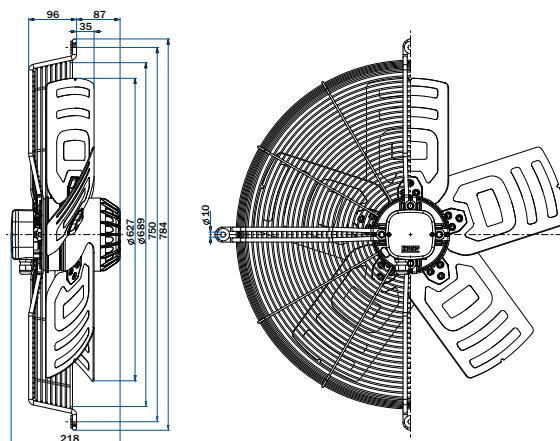
Sucking 0301-1-0033 See section
Blowing 0301-1-0033 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330A-6T2-7042	0313-4-0490	14.6
Blowing	R13R-6330P-6T2-7042	0313-4-0491	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330A-6T2-7042	On request	
Blowing	R13R-6330P-6T2-7042	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330A-6T2-7042	On request	
Blowing	R13R-6330P-6T2-7042	On request	

Diameter:

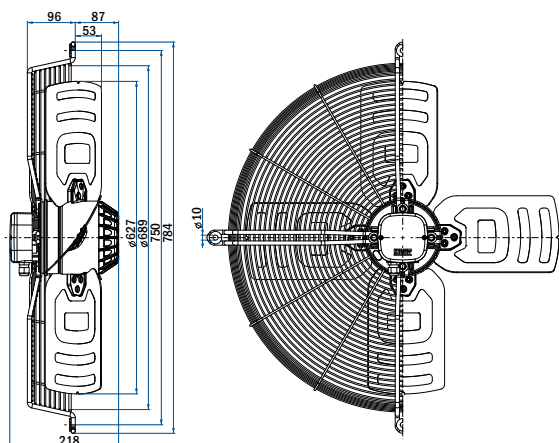
630 mm

R13_-6335_-8M-7049



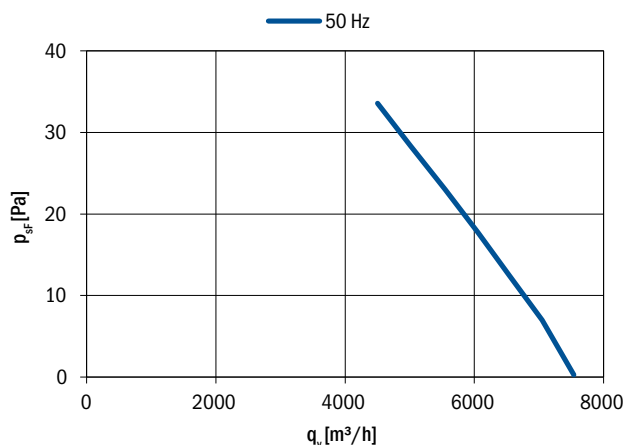
Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6335A-8M-7049	0313-4-0231	14.6
Blowing	R13R-6335P-8M-7049	0313-4-0234	



Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	265 W
Rated current	1.2 A
Rated speed	610 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	70 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-6335A-8M-7049	On request	
Blowing	R13P-6335P-8M-7049	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6335A-8M-7049	On request	
Blowing	R13E-6335P-8M-7049	On request	

General notes

Connection diagrams:

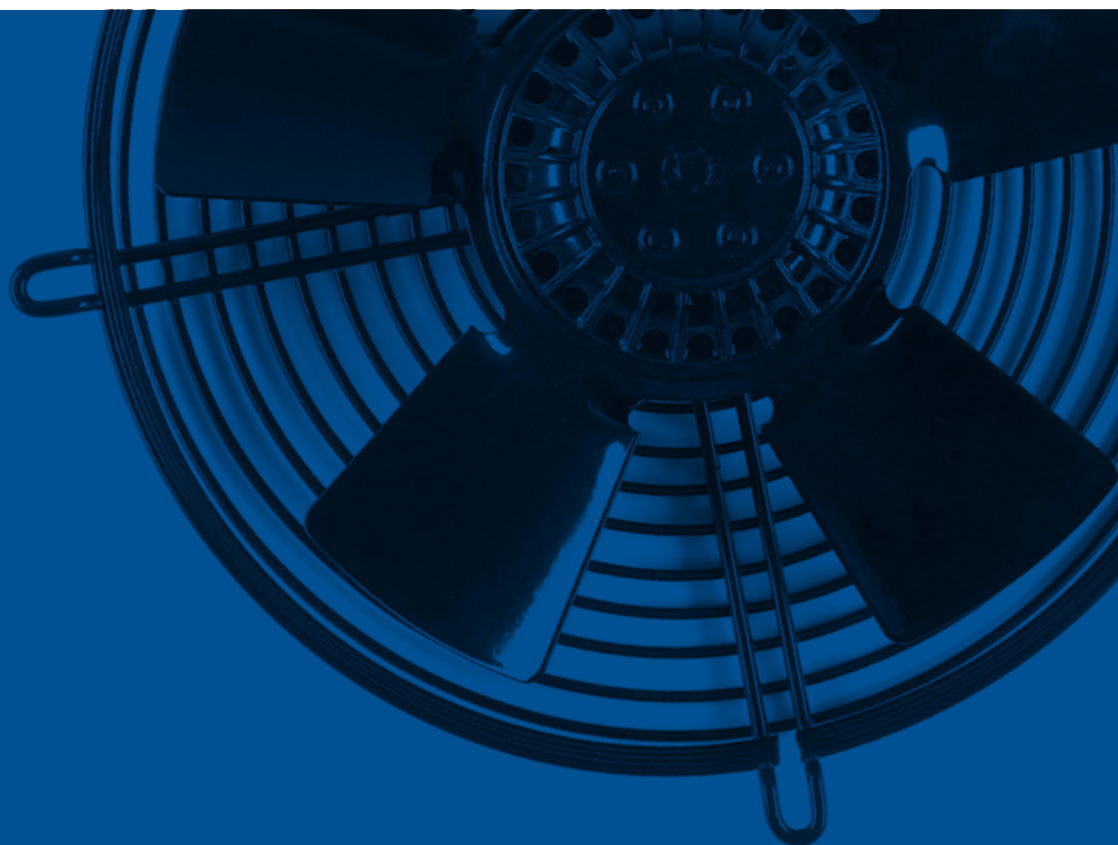
Sucking 0301-1-0044 See section
Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

AC AXIAL FANS – PADDLE BLADES	AC AXIAL FANS – SICKLED BLADES	AC AXIAL FANS – BLADES WITH COMPOSITE MATERIAL (PP/AP)
UL LISTED AXIAL FANS	ACCESSORIES	CONNECTION DIAGRAMS
APPENDIX		

04



UL listed Axial Fans

AC AXIAL FANS –
SICKLED BLADES

AC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)

AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

		Page	
	Stamped steel blades (type 25 °, 32 °) Diameters: 250–350 mm	102–103	AC AXIAL FANS – SICKLED BLADES
	Stamped steel blades (type 30H) Diameters: 350 mm	104–105	AC AXIAL FANS – BLADES WITH COMPOSITE MATERIAL (PP/AP)
	Stamped aluminium blades (type 25 °, 30 °) Diameters: 400–450 mm	106–107 109–116	AC AXIAL FANS – PADDLE BLADES
	Plastic blades (type LP) Diameters: 400 mm	108	UL LISTED AXIAL FANS
	Stamped aluminium blades (type 30H) Diameters: 630 mm	117	ACCESSORIES

Example of type key:

R11R-4030A-4T2-3830

- R11** External rotor motor type (R09, R11, R13)
- R** Accessory type (E – without guard grill, R – with guard grill, P – with guard grill and wall plate)
- 40** Fan diameter x 10 (exact diameters are stated in drawings)
- 30** Type of blades (25 °, 30 °, 32 °, 30H, LP)
- A** Airflow direction (A or S – sucking, P or B – blowing)
- 4** Number of motor poles
- T** Number of phases (M – single phase, T – three phase)
- 2** Number of motor speed
- 38** Motor stack height
- 30** Version of electrical construction

Diameter:

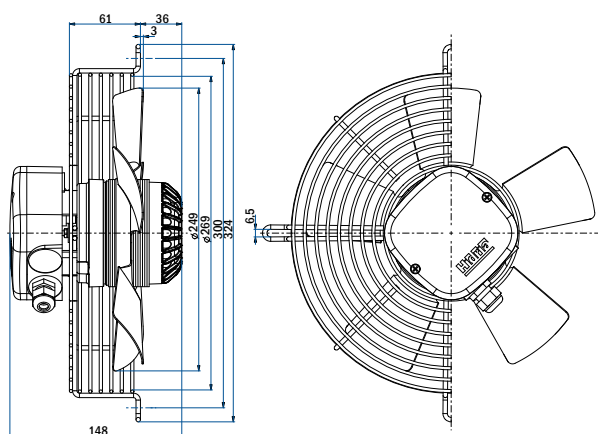
250 mm

R09R-2525A-2M-3551



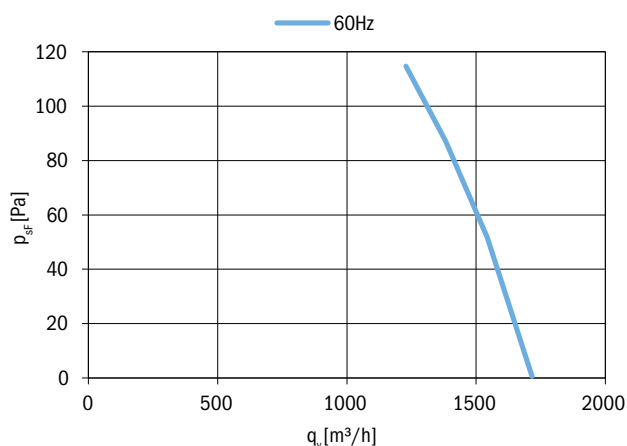
Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2525A-2M-3551	0309-4-0509	2.9
Blowing	R09R-2525P-2M-3551	On request	



Nominal data according to UL standard:	
Phase	1~
Nominal voltage	230 V
Frequency	60 Hz
Rated power input	145 W
Rated current	0.65 A
Rated speed	3015 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	73 dB (A)
Condensator	2 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-2525A-2M-3551	On request	
Blowing	R09P-2525P-2M-3551	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-2525A-2M-3551	On request	
Blowing	R09E-2525P-2M-3551	On request	

General notes

Connection diagrams:

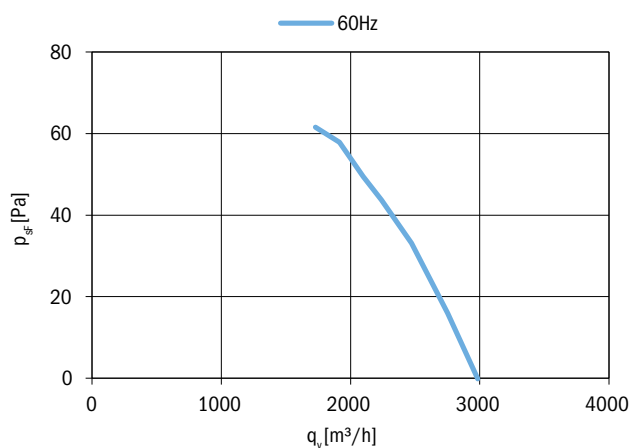
Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R09_-3532_-4M-4217**Diameter:****350 mm****Nominal data according to UL standard:**

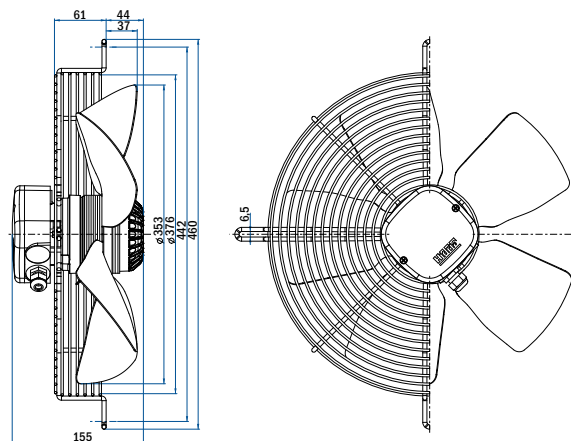
Phase	1~
Nominal voltage	110 V
Frequency	60 Hz
Rated power input	170 W
Rated current	1.60 A
Rated speed	1300 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	73 dB (A)
Condensator	16 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3532A-4M-4217	0309-4-0508	3.7
Blowing	R09R-3532P-4M-4217	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3532A-4M-4217	On request	
Blowing	R09P-3532P-4M-4217	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3532A-4M-4217	On request	
Blowing	R09E-3532P-4M-4217	On request	

General notes

Connection diagrams:

Sucking 0301-1-0043 See section
 Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

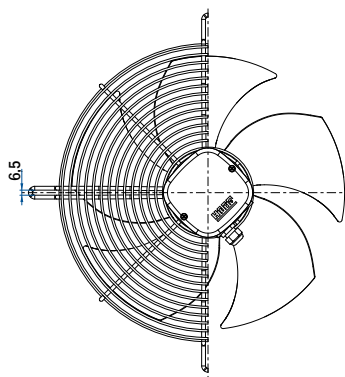
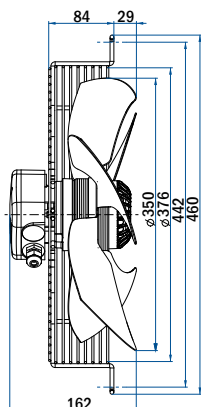
350 mm

R09_-3530H_-4M-4256



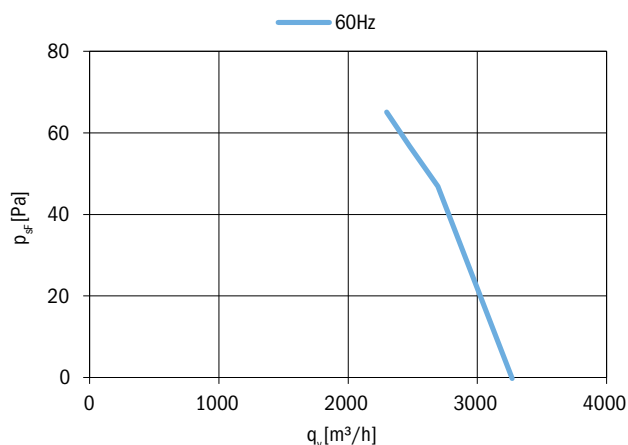
Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3530HA-4M-4256	0309-4-1167	3.7
Blowing	R09R-3530HP-4M-4256	On request	



Nominal data according to UL standard:	
Phase	1~
Nominal voltage	230 V
Frequency	60 Hz
Rated power input	165 W
Rated current	0.72 A
Rated speed	1380 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	75 dB (A)
Condensator	4 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3530HA-4M-4256	On request	
Blowing	R09P-3530HP-4M-4256	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3530HA-4M-4256	On request	
Blowing	R09E-3530HP-4M-4256	On request	

General notes

Connection diagrams:

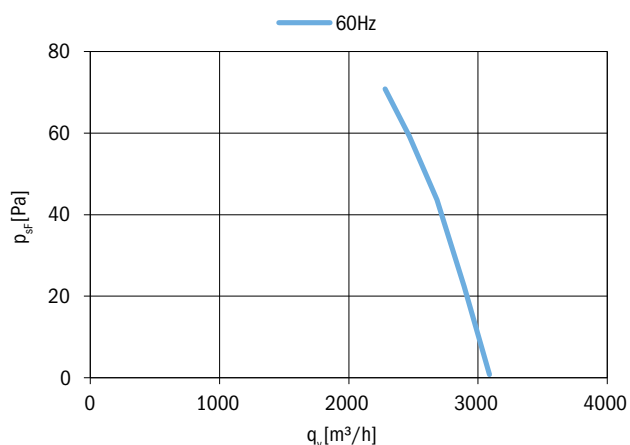
Sucking 0301-1-0043 See section
Blowing 0301-1-0044 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R09_-3530H_-4T-4250**Diameter:****350 mm****Nominal data according to UL standard:**

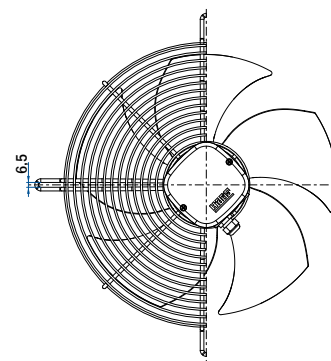
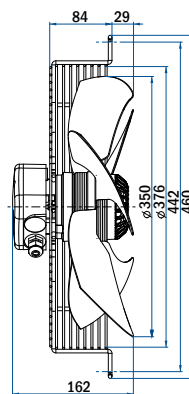
Phase	1~
Nominal voltage	Y400/D230 V
Frequency	60 Hz
Rated power input	190 W
Rated current	0.34/0.60 A
Rated speed	1375 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	75 dB (A)
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

**cUL US****Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3530HA-4T-4250	0309-4-1168	3.7
Blowing	R09R-3530HP-4T-4250	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3530HA-4T-4250	On request	
Blowing	R09P-3530HP-4T-4250	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3530HA-4T-4250	On request	
Blowing	R09E-3530HP-4T-4250	On request	

General notes

Connection diagrams:

Sucking 0301-1-0049 See section
 Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

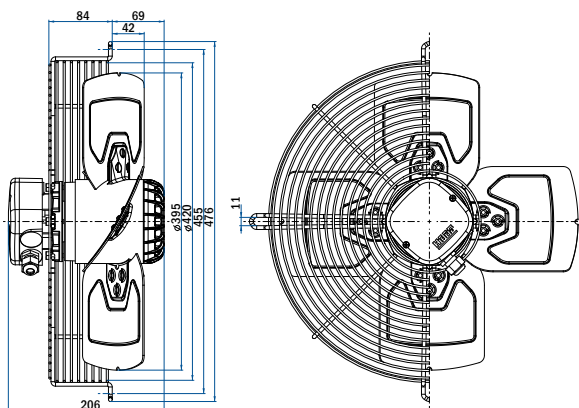
400 mm

R11_-4030_-4M-5767



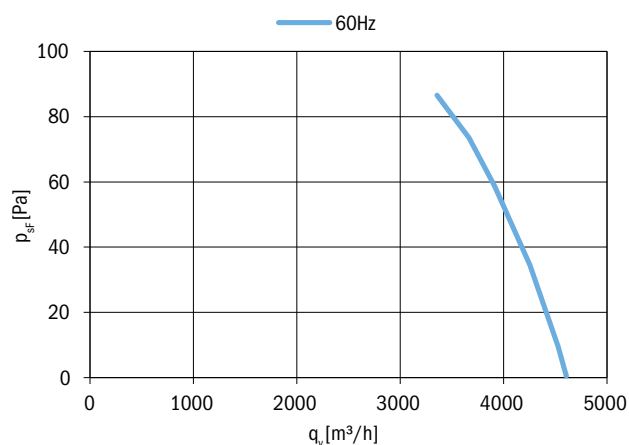
Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4030A-4M-5767	0311-4-0492	6.8
Blowing	R11R-4030P-4M-5767	On request	



Nominal data according to UL standard:	
Phase	1~
Nominal voltage	115 V
Frequency	60 Hz
Rated power input	440 W
Rated current	4.0 A
Rated speed	1545 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	76 dB (A)
Condensator	12.5 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4030A-4M-5767	On request	
Blowing	R11P-4030P-4M-5767	On request	

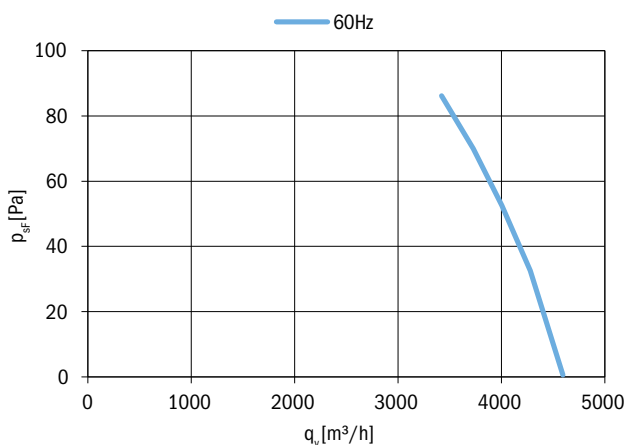
Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4030A-4M-5767	On request	
Blowing	R11E-4030P-4M-5767	On request	

General notes	
Connection diagrams:	
Sucking	0301-1-0044 See section
Blowing	0301-1-0043 Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

R11_-4030_-4M-5768**Diameter:****400 mm****Nominal data according to UL standard:**

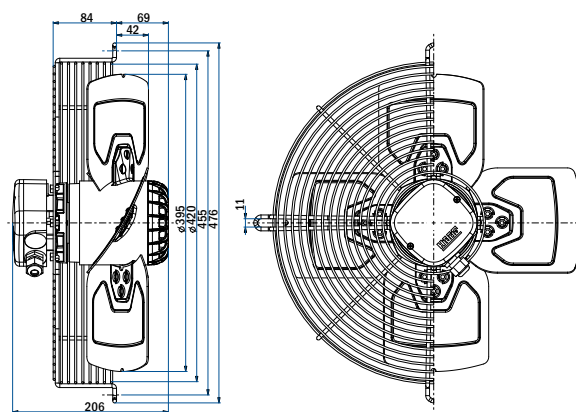
Phase	1~
Nominal voltage	230 V
Frequency	60 Hz
Rated power input	320 W
Rated current	1.42 A
Rated speed	1490 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	76 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

**cUL[®]us****Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4030A-4M-5768	0311-4-0498	6.8
Blowing	R11R-4030P-4M-5768	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4030A-4M-5768	On request	
Blowing	R11P-4030P-4M-5768	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4030A-4M-5768	On request	
Blowing	R11E-4030P-4M-5768	On request	

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
 Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

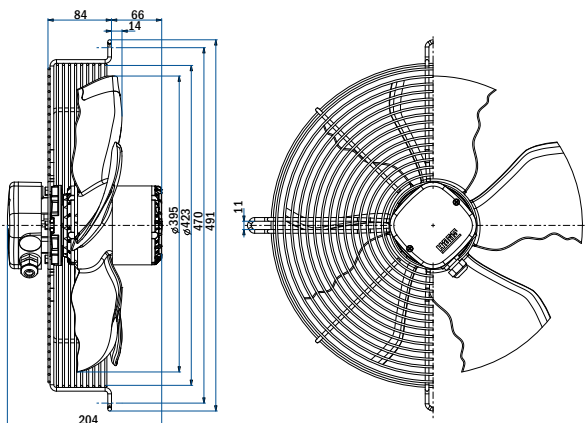
400 mm

R11_-40LP_-4T-5762



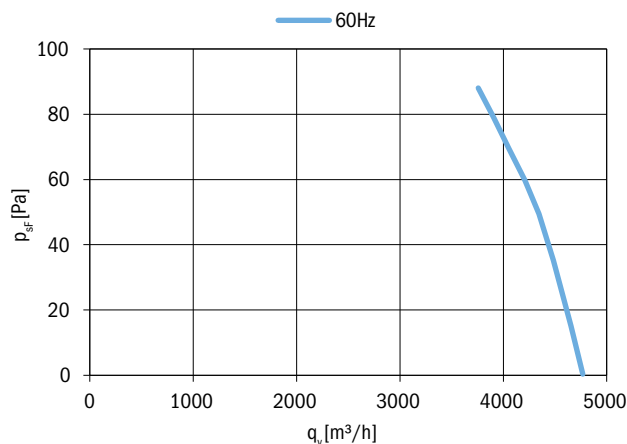
Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-40LPS-4T-5762	0311-4-0499	13.1
Blowing	R11R-40LPB-4T-5762	On request	



Nominal data according to UL standard:	
Phase	3~
Nominal voltage	Y400/D230 V
Frequency	60 Hz
Rated power input	280 W
Rated current	0.51/0.88 A
Rated speed	1580 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	78 dB (A)
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-40LPS-4T-5762	On request	
Blowing	R11P-40LPB-4T-5762	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-40LPS-4T-5762	On request	
Blowing	R11E-40LPB-4T-5762	On request	

General notes

Connection diagrams:

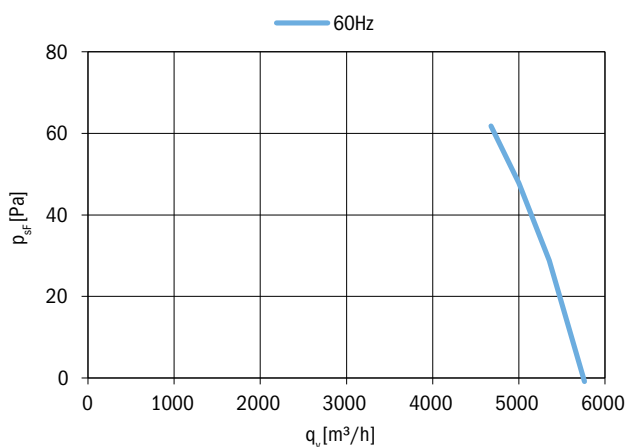
Sucking 0301-1-0049 See section
Blowing 0301-1-0049 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

R11_-4525_-4M-5767**Diameter:****450 mm****Nominal data according to UL standard:**

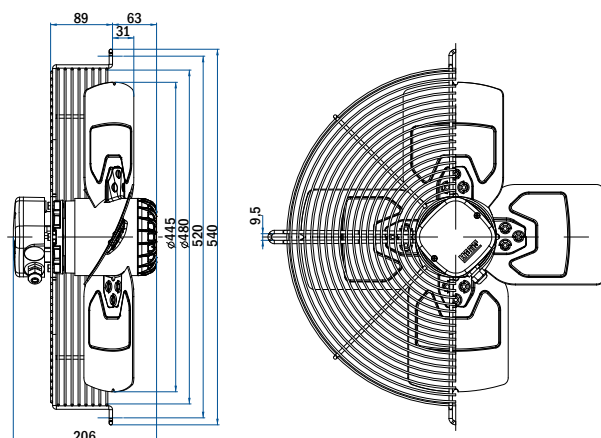
Phase	1~
Nominal voltage	115 V
Frequency	60 Hz
Rated power input	360 W
Rated current	3.2 A
Rated speed	1535 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	76 dB (A)
Condensator	12.5 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

**cFLUS****Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4525A-4M-5767	0311-4-0494	7.3
Blowing	R11R-4525P-4M-5767	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4525A-4M-5767	On request	
Blowing	R11P-4525P-4M-5767	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4525A-4M-5767	On request	
Blowing	R11E-4525P-4M-5767	On request	

General notes

Connection diagrams:

Sucking 0301-1-0044 See section
 Blowing 0301-1-0043 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

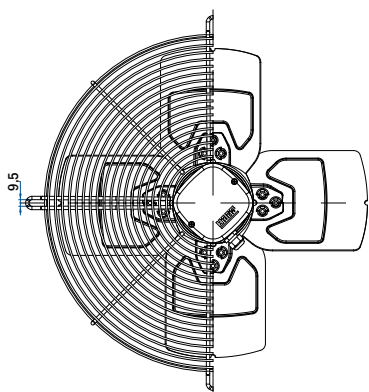
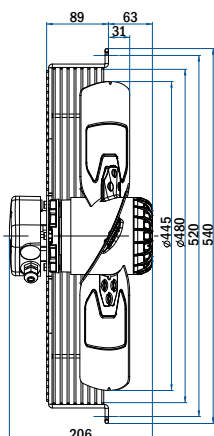
450 mm

R11_-4525_-4M-5768



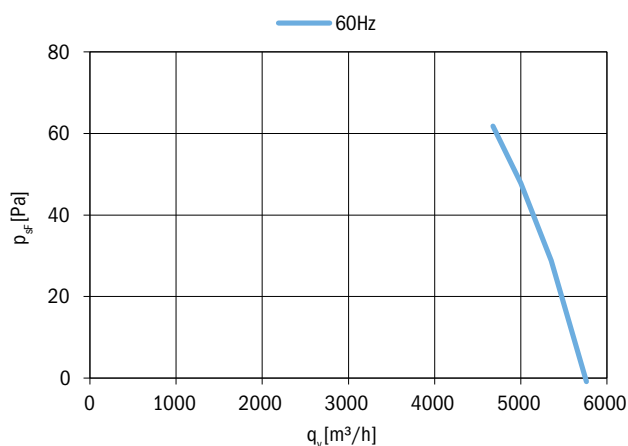
Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4525A-4M-5768	0311-4-0496	7.3
Blowing	R11R-4525P-4M-5768	On request	



Nominal data according to UL standard:	
Phase	1~
Nominal voltage	230 V
Frequency	60 Hz
Rated power input	320 W
Rated current	1.42 A
Rated speed	1490 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	76 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4525A-4M-5768	On request	
Blowing	R11P-4525P-4M-5768	On request	

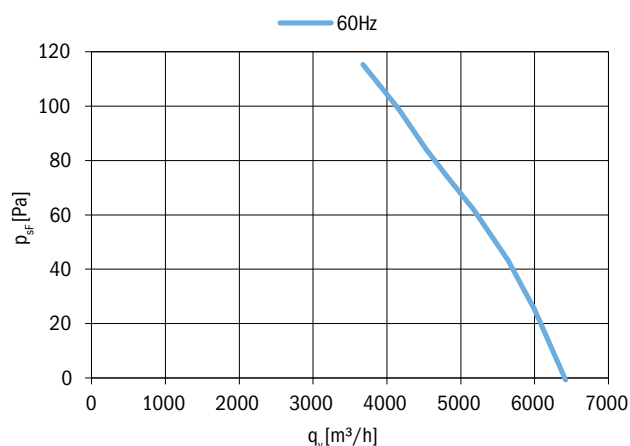
Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4525A-4M-5768	On request	
Blowing	R11E-4525P-4M-5768	On request	

General notes	
Connection diagrams:	
Sucking	0301-1-0044 See section
Blowing	0301-1-0043 Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

R13_-4530_-4M-70106**Diameter:****450 mm****Nominal data according to UL standard:**

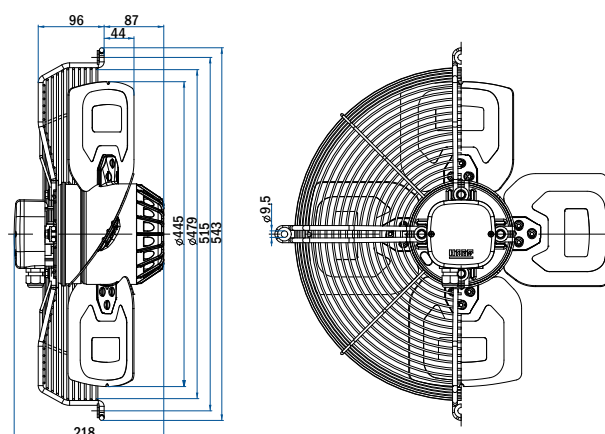
Phase	1~
Nominal voltage	115 V
Frequency	60 Hz
Rated power input	660 W
Rated current	6.4 A
Rated speed	1235 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	78 dB (A)
Condensator	20 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530A-4M-70106	0313-4-0473	13.1
Blowing	R13R-4530P-4M-70106	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530A-4M-70106	On request	
Blowing	R13P-4530P-4M-70106	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530A-4M-70106	On request	
Blowing	R13E-4530P-4M-70106	On request	

General notes

Connection diagrams:

Sucking See section
Blowing Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

Diameter:

450 mm

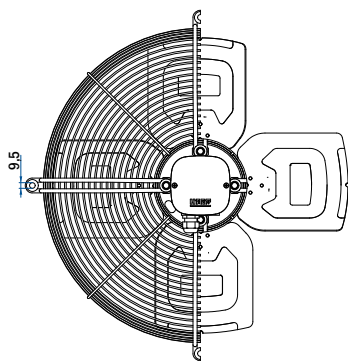
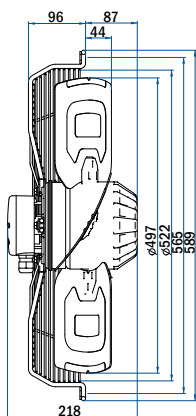
R13_-4530_-4M-70107



c[®] **UL** **US**

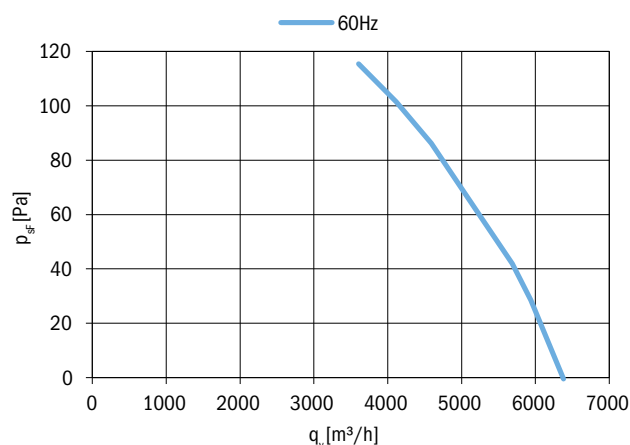
Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530A-4M-70107	0313-4-0474	13.1
Blowing	R13R-4530P-4M-70107	On request	



Nominal data according to UL standard:	
Phase	1~
Nominal voltage	230 V
Frequency	60 Hz
Rated power input	550 W
Rated current	2.25 A
Rated speed	1400 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	78 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530A-4M-70107	On request	
Blowing	R13P-4530P-4M-70107	On request	

Fan without guard grill

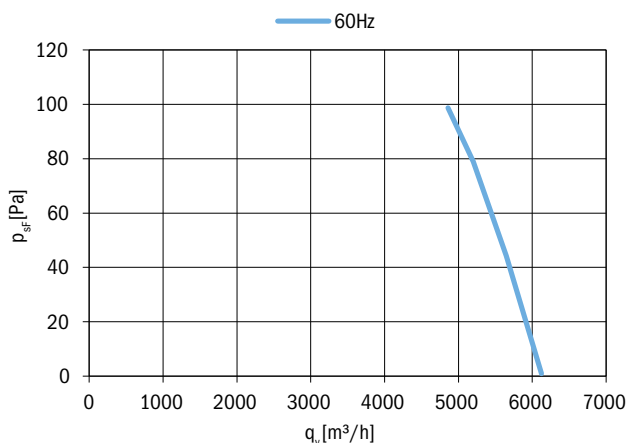
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530A-4M-70107	On request	
Blowing	R13E-4530P-4M-70107	On request	

General notes

Connection diagrams:		
Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams
Guard grills & wall-plates	See section Accessories	
Standards compliance	See introduction page	

R13_-4525_-4T-5097**Diameter:****450 mm****Nominal data according to UL standard:**

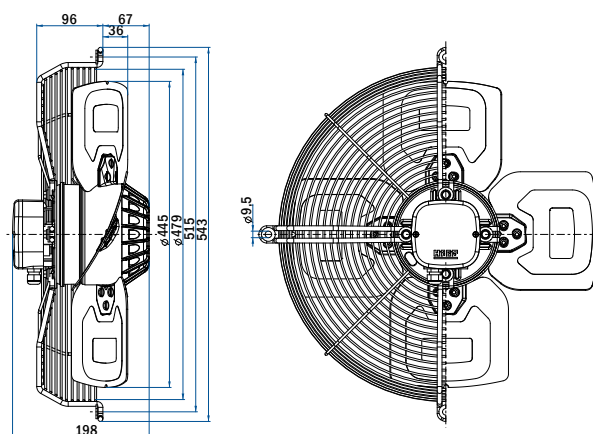
Phase	3~
Nominal voltage	Y400/D230 V
Frequency	60 Hz
Rated power input	480 W
Rated current	0.95/1.7 A
Rated speed	1645 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	78 dB (A)
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill.

**UL****Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4525A-4T-5097	0313-4-0480	13.1
Blowing	R13R-4525P-4T-5097	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4525A-4T-5097	On request	
Blowing	R13P-4525P-4T-5097	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4525A-4T-5097	On request	
Blowing	R13E-4525P-4T-5097	On request	

General notes

Connection diagrams:

Sucking 0301-1-0034 See section
 Blowing 0301-1-0034 Connection diagrams

Guard grills & wall-plates See section Accessories

Standards compliance See introduction page

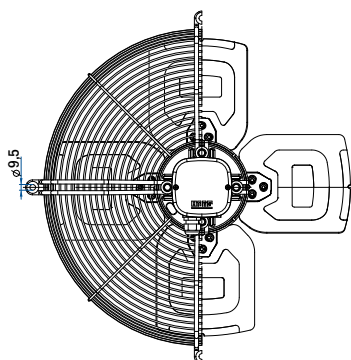
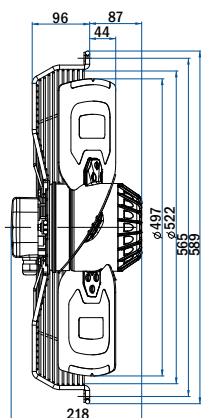
500 mm

R13_-5025_-4M-70106

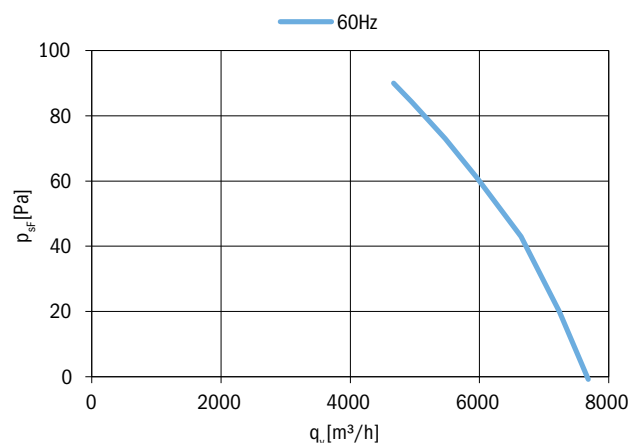


Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5025A-4M-70106	0313-4-0470	13.3
Blowing	R13R-5025P-4M-70106	On request	



Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5025A-4M-70106	On request	
Blowing	R13P-5025P-4M-70106	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5025A-4M-70106	On request	
Blowing	R13E-5025P-4M-70106	On request	

General notes

Connection diagrams:

Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams

Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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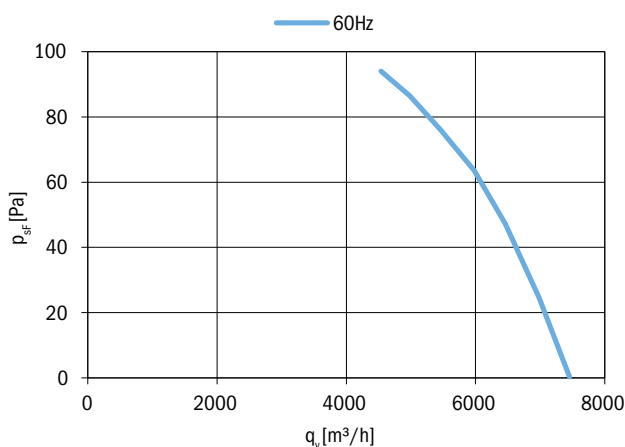
R13_-5025_-4M-70107

Diameter:

500 mm

Nominal data according to UL standard:	
Phase	1~
Nominal voltage	230 V
Frequency	60 Hz
Rated power input	550 W
Rated current	2.25 A
Rated speed	1250 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	78 dB (A)
Condensator	10 µF/450 V
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



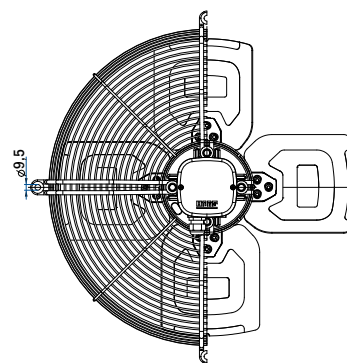
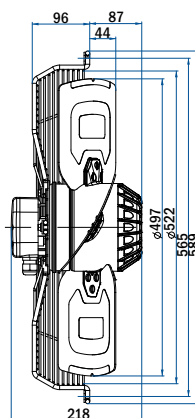
Fan characteristic measured in short bell mouth with guard grill.



CRU[®] US

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5025A-4M-70107	0313-4-0472	13.3
Blowing	R13R-5025P-4M-70107	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5025A-4M-70107	On request	
Blowing	R13P-5025P-4M-70107	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5025A-4M-70107	On request	
Blowing	R13E-5025P-4M-70107	On request	

General notes

Connection diagrams:

Sucking	0301-1-0044	See section
Blowing	0301-1-0043	Connection diagrams

Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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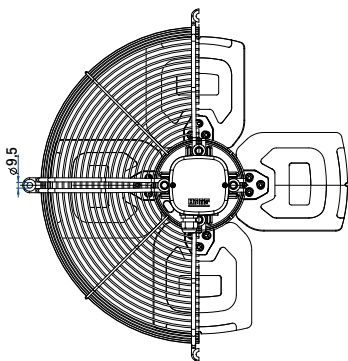
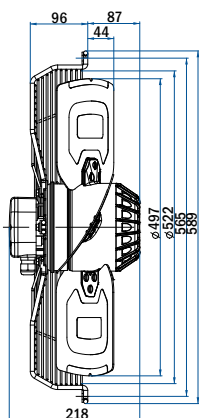
500 mm

R13_-5025_-4T-7098



Fan with guard grill

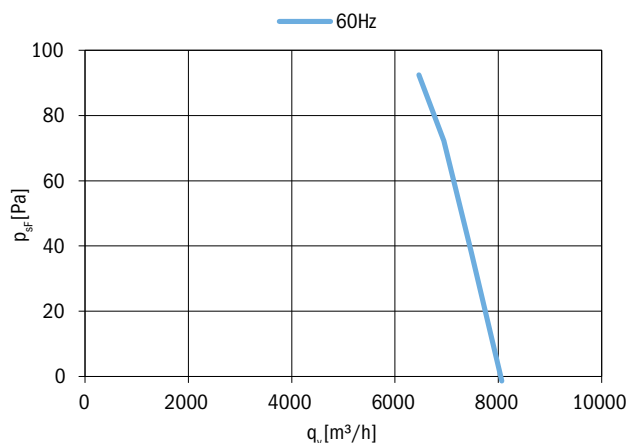
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5025A-4T-7098	0313-4-0475	13.3
Blowing	R13R-5025P-4T-7098	On request	



Nominal data according to UL standard:

Phase	3~
Nominal voltage	Y400/D230 V
Frequency	60 Hz
Rated power input	630 W
Rated current	1.32/2.30 A
Rated speed	1530 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	81 dB (A)
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill.

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5025A-4T-7098	On request	
Blowing	R13P-5025P-4T-7098	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5025A-4T-7098	On request	
Blowing	R13E-5025P-4T-7098	On request	

General notes

Connection diagrams:

Sucking	0301-1-0034	See section
Blowing	0301-1-0034	Connection diagrams

Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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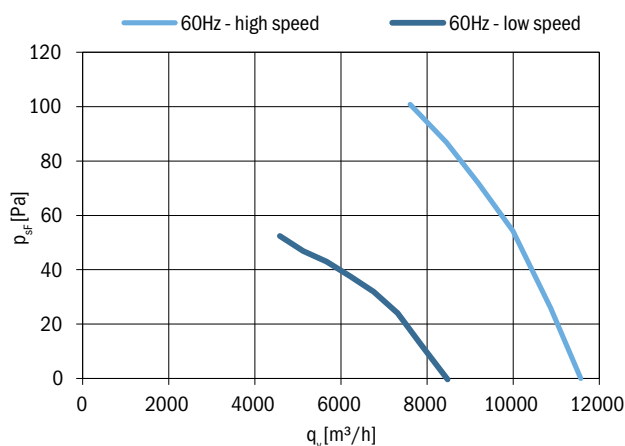
R13_-6330H_-6T2-9083

Diameter:

630 mm

Nominal data according to UL standard:	
Phase	3~
Nominal voltage	380-460 V
Frequency	60 Hz
Rated power input	800 W
Rated current	1.5 A
Rated speed	900-1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	77 dB (A)
Connection	terminal box
Insulation class	F
Protection class	IP54
UL file	E250222

Aerodynamic characteristic

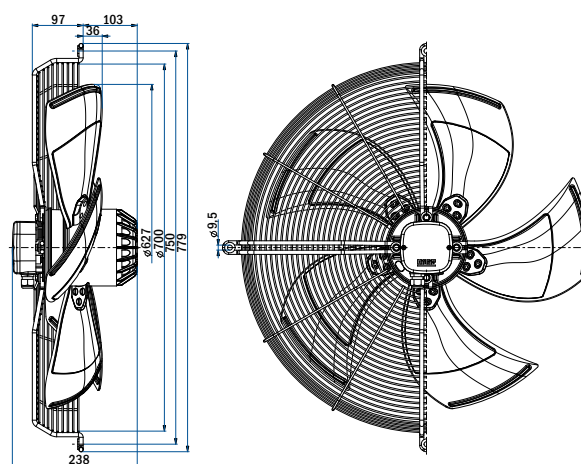


Fan characteristic measured in short bell mouth with guard grill.



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330HA-6T2-9083	0313-4-1173	15.7
Blowing	R13R-6330HP-6T2-9083	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-6330HA-6T2-9083	On request	
Blowing	R13P-6330HP-6T2-9083	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6330HA-6T2-9083	On request	
Blowing	R13E-6330HP-6T2-9083	On request	

General notes

Connection diagrams:

Sucking	0301-1-0033	See section
Blowing	0301-1-0033	Connection diagrams

Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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05

Accessories

AC AXIAL FANS –
SICKLED BLADES

AC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)

AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

Guard grills

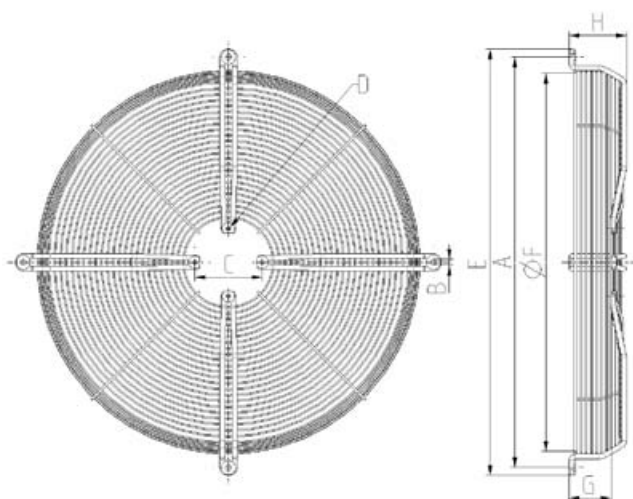
Main dimensions – Basket grills Type 1

Fan dia.	Motor type	A	B	C	D	E	Ø F	G	H	Code
450	R13	515	ø 9.5	115	ø 7	543	479	70	96	0300-1-3001
500	R13	565	ø 9.5	115	ø 7	589	522	70	96	0300-1-3004
560	R13	700	ø 10.5	115	ø 7	727	644	71.5	97.5	0300-1-3003
630	R13	750	ø 10.5	115	ø 10.5	784	690	70	96	0300-1-3006

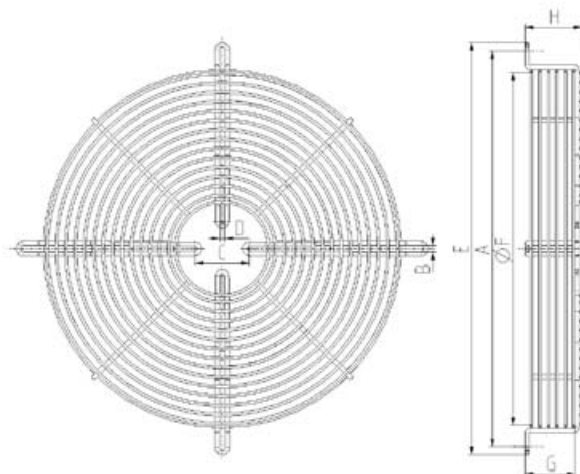
Main dimensions – Basket grills Type 2

Fan dia.	Motor type	A	B	C	D	E	Ø F	G	H	Code
200	R09	260	6.5	58	6.5	274	230	37	45	0300-1-3103
250	R09	300	6.5	58	6.5	314	269	37	45	0300-1-3104
300	R09	360	6.5	58	6.5	376	316	35	43	0300-1-3009
315	R09	375	6.5	58	6.5	393	336	57	65	0300-1-3022
350	R09	422	6.5	58	6.5	440	376	53	61	0300-1-3008
350	R11	442	6.5	90	6.5	485	376	53	61	0300-1-3027
400	R11	455	ø 9.5	90	ø 6.5	476	422	76	84	0300-1-3026
450	R11	520	10	90	10	540	480	55	73	0300-1-3000

Basket grills Type 1



Basket grills Type 2



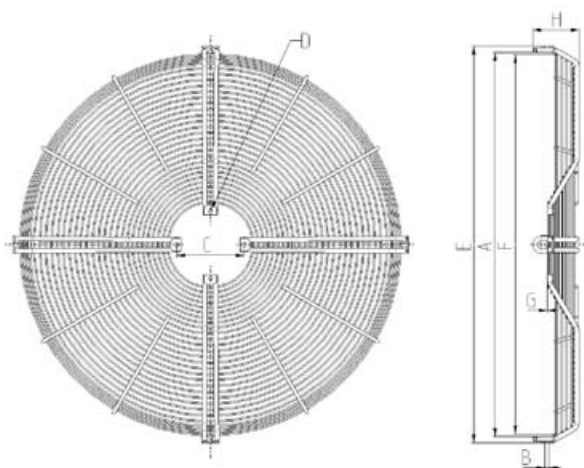
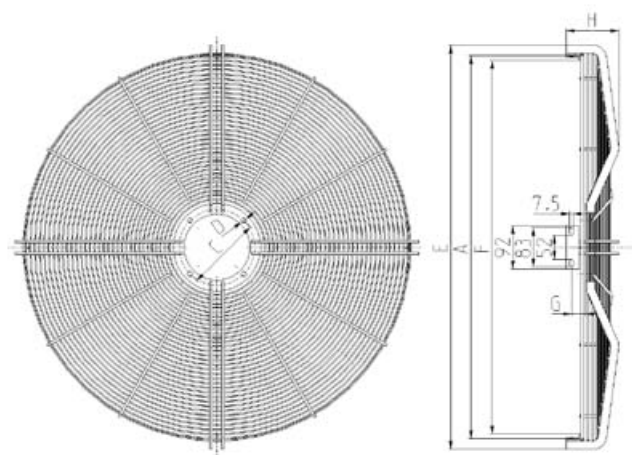
Notes: Surface black painted RAL9005

Main dimensions – Basket grills Type 3

Fan dia.	Motor type	A	B	C	D	E	Ø F	G	H	Code
560	R13	579	ø 7	115	ø 7	601	571	17	94	0300-1-3089
630	R13	654	ø 7	115	ø 7	676	646	1	79	0300-1-3087

Main dimensions – Basket grills Type 4

Fan dia.	Motor type	A	B	C	D	E	Ø F	G	H	Code
710	R18	731	7.5 x 14.5	182	ø 11	777	715	32	112	0300-1-3077
800	R18	816	7.5 x 15.5	182	ø 11	816	795	30	112	0300-1-3072

Basket grills Type 3**Basket grills Type 4**

Notes: Surface black painted RAL9005

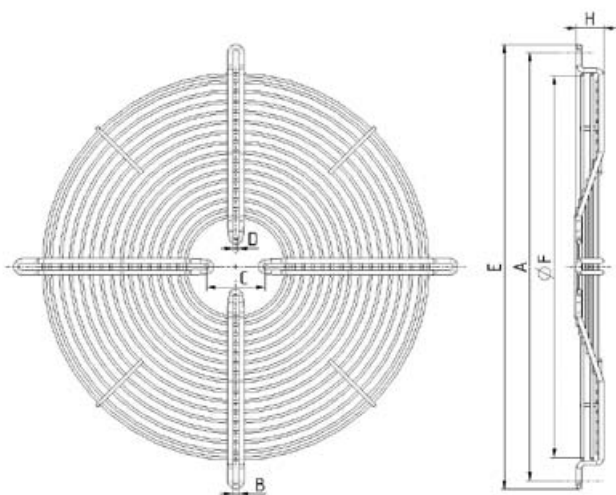
Main dimensions – Basket grills Type 5

Fan dia.	Motor type	A	B	C	D	E	Ø F	G	H	Code
300	R09	360	6.5	58	4.5	376	330	0	27	0300-1-3195
315	R09	375	6.5	58	4.5	392	344	0	27	0300-1-3194
330	R09	408	6.5	58	4.5	424	376	0	27	0300-1-3193
350	R09	422	6.5	58	4.5	438	376	0	27	0300-1-3192

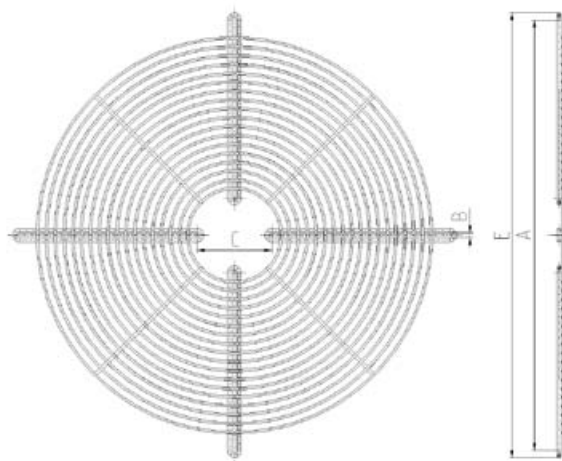
Main dimensions – Flat grills

Fan dia.	Motor type	A	B	C	D	E				Code
200	R09	250	6	58	4.5	264				0300-1-3094
250	R09	300	6	58	4.5	314				0300-1-3095
400	R11	467	6.5	90	6.5	490				0300-1-3128
450	R11	520	6.5	90	6.5	538				0300-1-3030
500	R11	565	9.5	90	6.5	586				0300-1-3031
560	R11	625	9.5	90	9.5	644				0300-1-3032

Basket grills Type 5



Flat grills



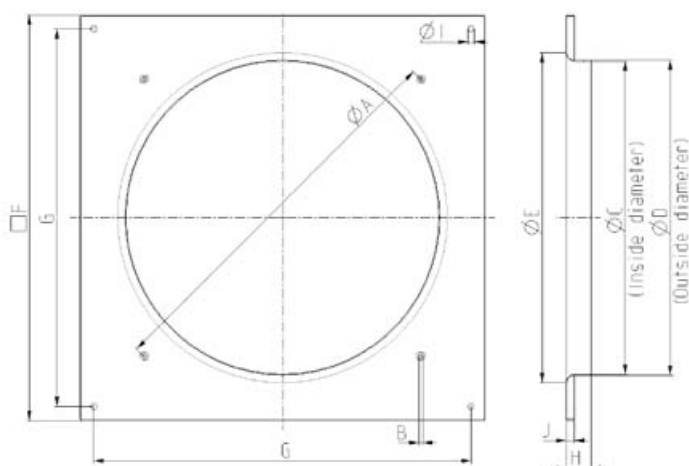
Notes: Surface black painted RAL9005

Wall plates

Main dimensions – Square short wall plates

Fan dia.	Airflow direction	A	B	Ø C	Ø D	Ø E	Ø F	G	H	Ø I	J	Code
300	sucking	360	M6	307	310	337	430	380	45	11	15	0300-6-7122
300	blowing	360	M6	307	310	337	430	380	45	11	15	0300-6-7073
315	sucking	375	M6	319	322	349	430	380	45	11	15	0300-6-7120
315	blowing	375	M6	319	322	349	430	380	45	11	15	0300-6-7075
330	sucking	400	M6	337	340	367	485	435	45	11	15	0300-6-7118
330	blowing	400	M6	337	340	367	485	435	45	11	15	0300-6-7104
350	sucking	422	M6	360	363	390	485	435	45	11	15	0300-6-7116
350	blowing	422	M6	360	363	390	485	435	45	11	15	0300-6-7077
400	sucking	455	M8	403	406	433	540	490	45	11	15	0300-6-7114
400	blowing	455	M8	403	406	433	540	490	45	11	15	0300-6-7079
420	blowing	483	M8	426	429	460	575	535	45	11	15	0300-6-7087
450	sucking	515	M8	452	455	482	575	535	45	11	15	0300-6-7112
450	blowing	515	M8	452	455	482	575	535	45	11	15	0300-6-7069
500	sucking	565	M8	504	507	534	655	615	45	11	15	0300-6-7110
500	blowing	565	M8	504	507	534	655	615	45	11	15	0300-6-7081
560	sucking	700	M8	560	563	590	725	675	45	11	15	0300-6-7108
560	blowing	700	M8	560	563	590	725	675	45	11	15	0300-6-7083
630	sucking	750	M8	635	638	675	805	750	60	11	15	0300-6-7106
630	blowing	750	M8	635	638	675	805	750	60	11	15	0300-6-7071

Square short wall plate

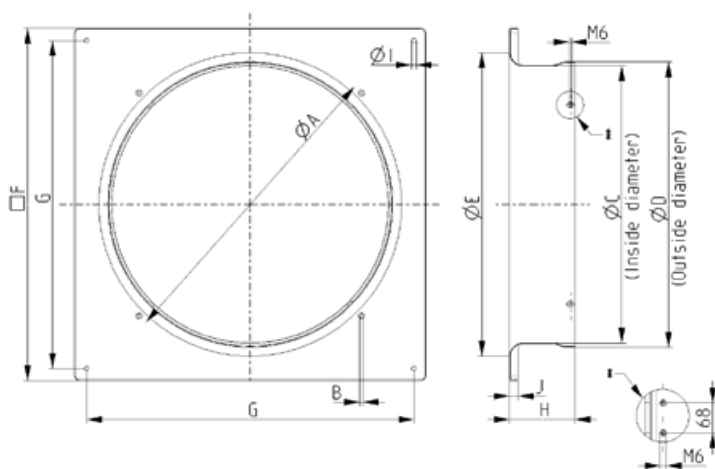


Notes: Surface black painted RAL9005

Main dimensions – Square long wall plates

Fan dia.	Airflow direction	A	B	Ø C	Ø D	Ø E	Ø F	G	H	Ø I	J	Code
500	sucking	615	M8	504	518	585	656	615	118	11	16	0300-6-7089
560	sucking	658	M8	560	577	630	725	675	135	11	16	0300-6-7095
630	sucking	720	M8	634	653	695	805	750	150	11	20	0300-6-7091
710	sucking	/	/	711	729	790	850	810	167	14.5	20	0300-6-7085
800	sucking	/	/	797	815	915	970	910	210	14.5	17	0300-6-7068

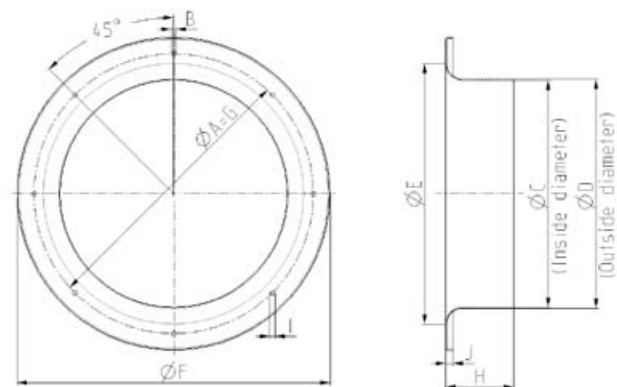
Square long wall plate



Main dimensions – Round long wall plates 1

Fan dia.	Airflow direction	A	B	Ø C	Ø D	Ø E	Ø F	G	H	Ø I	J	Code
200	blowing	250	4.3	203	206	233	280	250	61	6.4	6.5	0300-6-7102
250	blowing	300	4.3	253	256	287	330	300	65	6.4	7.5	0300-6-7103

Round long wall plate Type 1

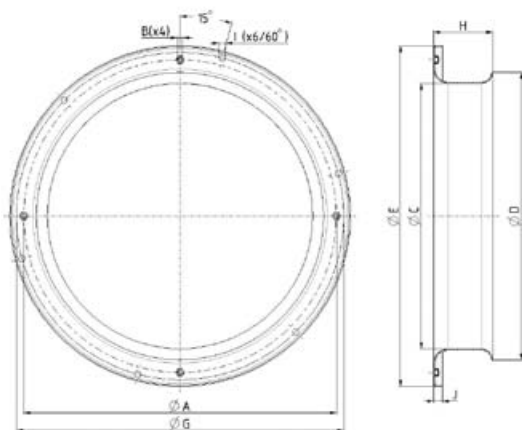


Notes: Surface black painted RAL9005

Main dimensions – Round long wall plates 2

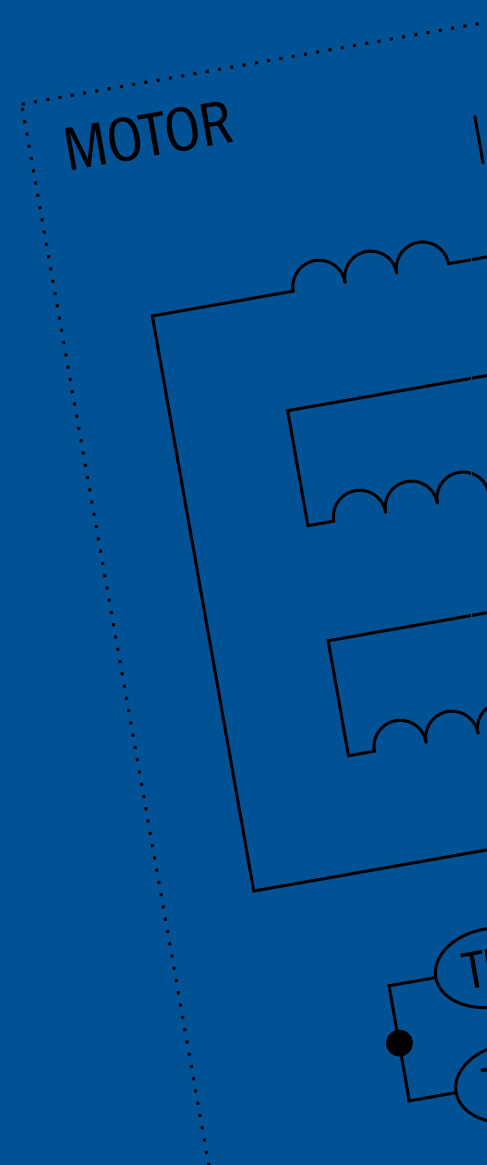
Fan dia.	Airflow direction	A	B	Ø C	Ø D	Ø E	Ø F	G	H	Ø I	J	Code
300	sucking	361	M6	306	326	397	/	380	80	9	11	0300-6-7144
315	sucking	375.5	M6	317	347	397	/	380.5	74	9	11	0300-6-7146
330	sucking	408	M6	336	369	440	/	404	80	9	9	0300-6-7148
350	sucking	422	M6	358	388	460	/	442	80	9	12	0300-6-7150
400	sucking	502	M6	400	419	528	/	504	96	9	12	0300-6-7166
420	sucking	502	M8	426	447	544	/	520	96	9	12	0300-6-7168
450	sucking	560	M8	454	465	607	/	578	100	9	14	0300-6-7170

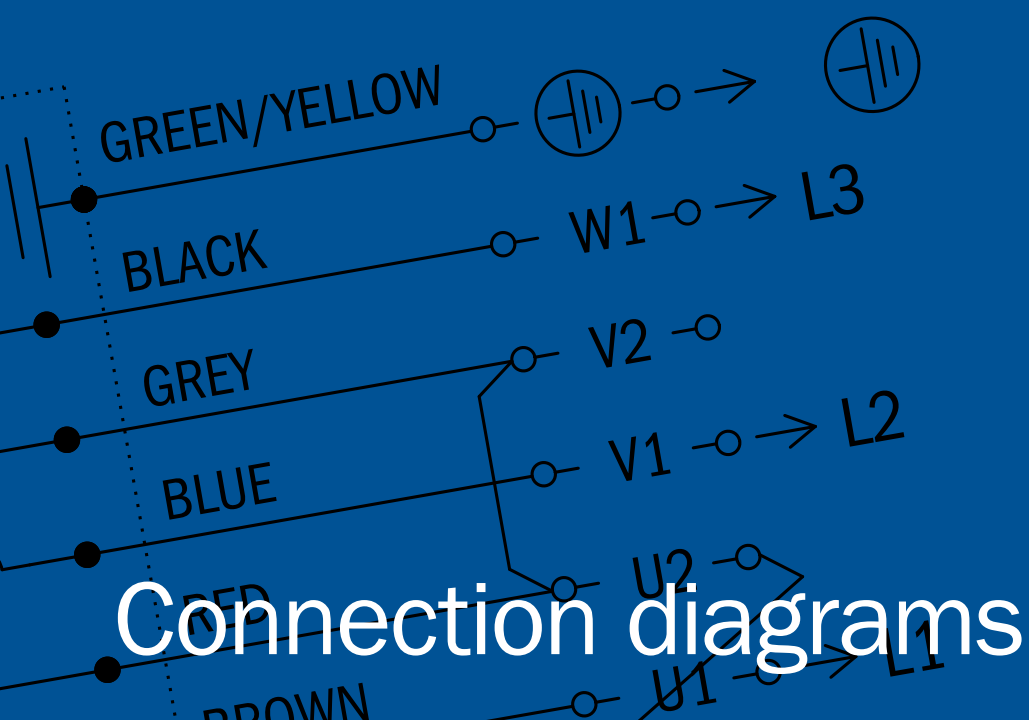
Round long wall plate Type 2



Notes: Surface black painted RAL9005

06





Connection diagrams

AC AXIAL FANS –
SICKLED BLADESAC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

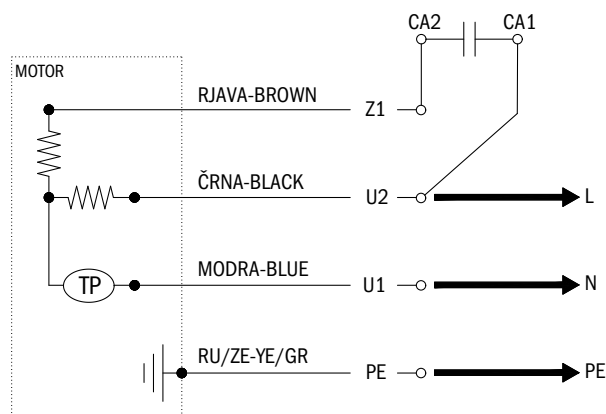
ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

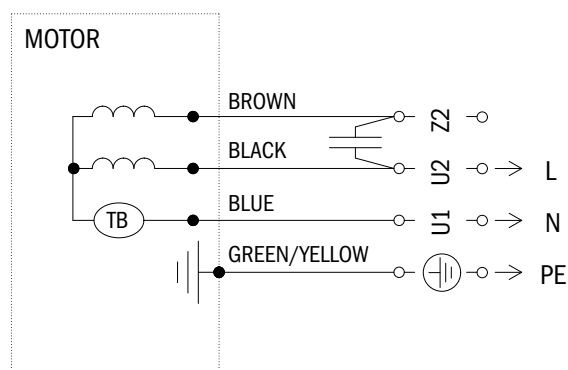
Connection diagrams

■ Connection diagrams 0301-1-0002

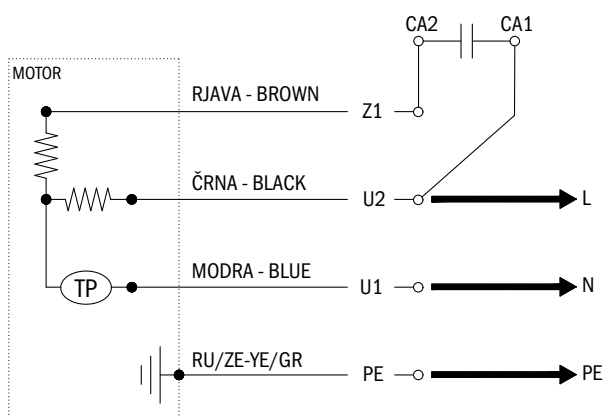


Rotation	L	N	PE	Join together	Protection device	Winding connection
CCW from cable side	U2 (black)	U1 (blue)	PE (ye/gr)	[CA1, U2] [CA2, Z2]	Internally connected	Permanent split phase capacitor motor

■ Connection diagrams 0301-1-0044

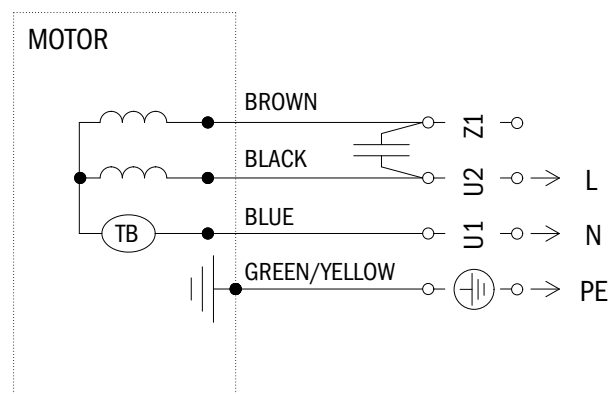


■ Connection diagrams 0301-1-0026

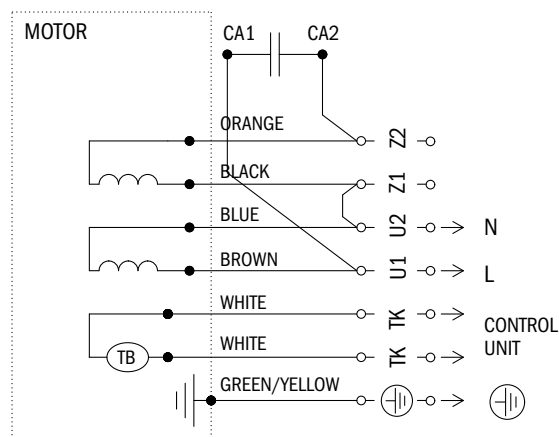


Rotation	L	N	PE	Join together	Protection device	Winding connection
CW from cable side	U2 (black)	U1 (blue)	PE (ye/gr)	[CA1, U2] [CA2, Z2]	Internally connected	Permanent split phase capacitor motor

■ Connection diagrams 0301-1-0043



■ Connection diagrams 0301-1-0029

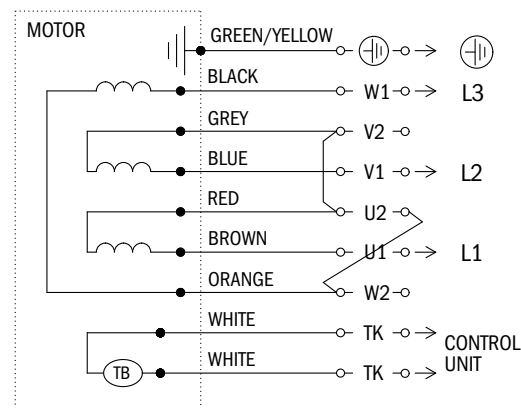


Connection options:

Rotation	L1	N	PE	Protection device	Join together	Winding connection
CW from cable side	U1	U2	PE	TK, TK	[CA1, U1] [CA2, Z2] [U2, Z1]	1.ph motor with capacitor and thermal contacts.

* Temperature monitors (TK) built in to the winding serve as motor cut-out switch and must be connected to the outside control unit!

■ Connection diagrams 0301-1-0049



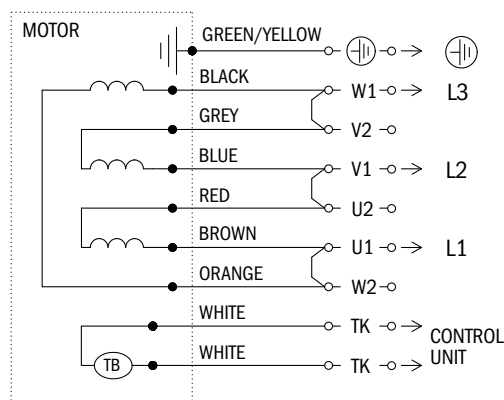
Connection options:

L1	L2	L3	PE	Protection device	Join together	Winding connection
U1	V1	W1	PE	TK, TK	[U2,V2,W2]	STAR (Y) - high voltage (STANDARD)
U1	V1	W1	PE	TK, TK	[U1,W2]; [V1,U2]; [W1,V2]	DELTA (Δ) - low voltage

* Changing of rotation direction by interchanging of 2 phases!

* Temperature monitors (TK) built in to the winding serve as motor cut-out switch and must be connected to the outside control unit!

■ Connection diagrams 0301-1-0048



Connection options:

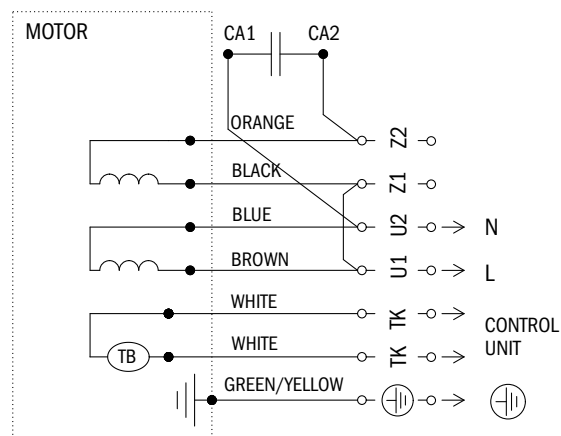
L1	L2	L3	PE	Protection device	Join together	Winding connection
U1	V1	W1	PE	TK, TK	[U1,W2]; [V1,U2]; [W1,V2]	DELTA (Δ) - high speed (STANDARD)
U1	V1	W1	PE	TK, TK	[U2,V2,W2];	STAR (Y) - low speed

* Changing of rotation direction by interchanging of 2 phases!

* Without bridges when using speed-change over switch!

* Temperature monitors (TK) built in to the winding serve as motor cut-out switch and must be connected to the outside control unit!

■ Connection diagrams 0301-1-0035

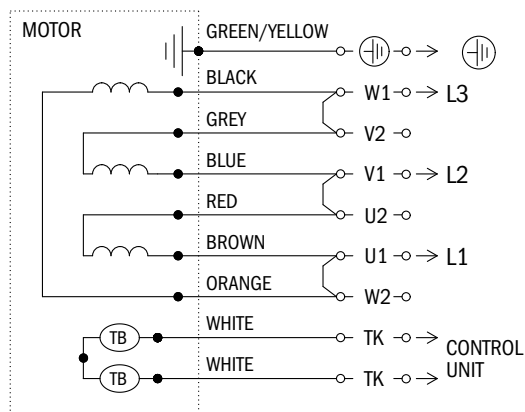


Connection options:

Rotation	L1	N	PE	Protection device	Join together	Winding connection
CCW from cable side	U1	U2	PE	TK, TK	[U1, Z1] [U2, CA1] [Z2, CA2]	1.ph motor with capacitor and thermal contacts.

* Temperature monitors (TK) built in to the winding serve as motor cut-out switch and must be connected to the outside control unit!

■ Connection diagrams 0301-1-0033

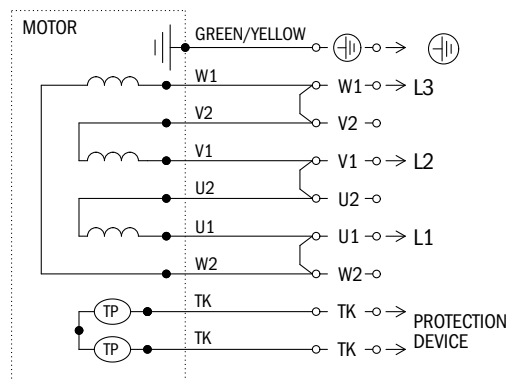


Connection options:

L1	L2	L3	PE	Protection device	Join together	Winding connection
U1	V1	W1	PE	TK, TK	[U1,W2]; [V1,U2]; [W1,V2]	DELTA (Δ) - high speed (STANDARD)
U1	V1	W1	PE	TK, TK	[U2,V2,W2];	STAR (Y) - low speed

- * Changing of rotation direction by interchanging of 2 phases!
- * Without bridges when using speed-change over switch!
- * Temperature monitors (TK) built in to the winding serve as motor cut-out switch and must be connected to the outside control unit!

■ Connection diagrams 0301-1-0031

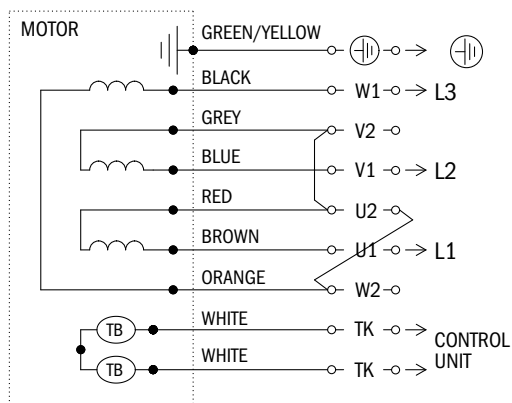


Connection options:

L1	L2	L3	PE	Protection device	Join together	Winding connection
U1	V1	W1	PE	TK, TK	[U1,W2]; [V1,U2]; [W1,V2]	DELTA (Δ) - high speed (STANDARD)
U1	V1	W1	PE	TK, TK	[U2,V2,W2];	STAR (Y) - low speed

- * Changing of rotation direction by interchanging of 2 phases!
- * Without bridges when using speed-change over switch!
- * Thermal contacts rating: AC 250V, 2.5A at $\cos \varphi = 1.0$, 1.6A at $\cos \varphi = 0.6$, temperature sensing.

■ Connection diagrams 0301-1-0034



Connection options:

L1	L2	L3	PE	Protection device	Join together	Winding connection
U1	V1	W1	PE	TK, TK	[U2,V2,W2]	STAR (Y) - high voltage (STANDARD)
U1	V1	W1	PE	TK, TK	[U1,W2]; [V1,U2]; [W1,V2]	DELTA (Δ) - low voltage

- * Changing of rotation direction by interchanging of 2 phases!
- * Temperature monitors (TK) built in to the winding serve as motor cut-out switch and must be connected to the outside control unit!

07

$$\frac{V_1}{V_2} = \frac{n_1}{n_2}$$

$$\frac{p_1}{p_2} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$$

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$$

$$L_{wA_2} = L_{wA_1} + 50 \log \left(\frac{n_2}{n_1}\right)$$

Appendix

AC AXIAL FANS –
SICKLED BLADESAC AXIAL FANS –
BLADES WITH COMPOSITE
MATERIAL (PP/AP)AC AXIAL FANS –
PADDLE BLADES

UL LISTED AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

Conversion tables

Volume flow	
[m ³ /h]	[ft ³ /min]
0	0
100	170
200	340
300	510
400	680
500	850
600	1019
700	1189
800	1359
900	1529
1000	1699
1200	2039
1400	2379
1600	2718
1800	3058
2000	3398
2500	4248
3000	5097
3500	5947
4000	6796
4500	7646
5000	8495
6000	10194
7000	11893
8000	13592
9000	15291
10000	16990
11000	18689
12000	20388
13000	22087
14000	23786
15000	25485
16000	27184
17000	28883
18000	30582
19000	32281
20000	33980
21000	35679
22000	37378
23000	39077
24000	40776
25000	42475
26000	44174

Pressure		
[Pa]	[mmHg]	[mmH ₂ O]
0	0,000	0,000
5	0,038	0,510
10	0,075	1,020
15	0,113	1,530
20	0,150	2,039
25	0,188	2,549
30	0,225	3,059
35	0,263	3,569
40	0,300	4,079
45	0,338	4,589
50	0,375	5,099
55	0,413	5,608
60	0,450	6,118
65	0,488	6,628
70	0,525	7,138
75	0,563	7,648
80	0,600	8,158
85	0,638	8,668
90	0,675	9,177
95	0,713	9,687
100	0,750	10,197
125	0,938	12,746
150	1,125	15,296
175	1,313	17,845
200	1,500	20,394
300	2,250	30,591
400	3,000	40,789
500	3,750	50,986
600	4,500	61,183
700	5,250	71,380
800	6,001	81,577
900	6,751	91,774
1000	7,501	101,972
1100	8,251	112,169
1200	9,001	122,366
1300	9,751	132,563
1400	10,501	142,760
1500	11,251	152,957
1600	12,001	163,155
1700	12,751	173,352
1800	13,501	183,549
1900	14,251	193,746
2000	15,001	203,943

Temperature	
[C°]	[F]
-30,0	-22,0
-27,5	-17,5
-25,0	-13,0
-22,5	-8,5
-20,0	-4,0
-17,5	0,5
-15,0	5,0
-12,5	9,5
-10,0	14,0
-7,5	18,5
-5,0	23,0
-2,5	27,5
0,0	32,0
2,5	36,5
5,0	41,0
7,5	45,5
10,0	50,0
12,5	54,5
15,0	59,0
17,5	63,5
20,0	68,0
22,5	72,5
25,0	77,0
27,5	81,5
30,0	86,0
32,5	90,5
35,0	95,0
37,5	99,5
40,0	104,0
42,5	108,5
45,0	113,0
47,5	117,5
50,0	122,0
52,5	126,5
55,0	131,0
57,5	135,5
60,0	140,0
62,5	144,5
65,0	149,0
67,5	153,5
70,0	158,0
72,5	162,5
75,0	167,0

Fluid flow rules for fans

Speed variation at constant fan size and constant density:

$$\frac{V_1}{V_2} = \frac{n_1}{n_2}$$

The volume flow changes proportionately to the speed.

$$\frac{p_1}{p_2} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$$

All pressures (static, dynamic and total) change proportionately to the square of speed or volume flow.

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$$

The power requirement changes proportionately to the third power of speed or volume flow.

$$L_{wA_2} = L_{wA_1} + 50 \log\left(\frac{n_2}{n_1}\right)$$

Correlation between sound power level (A weighted) and fan rotation speed.

In the case of changes in the wheel diameter of geometrically similar wheels at constant speed:

$$\frac{V_1}{V_2} = \left(\frac{D_1}{D_2}\right)^3$$

The volume flow changes proportionately to the third power of wheel diameter.

$$\frac{p_1}{p_2} = \left(\frac{D_1}{D_2}\right)^2$$

All pressures (static, dynamic and total) change proportionately to the square of wheel diameter.

$$\frac{P_1}{P_2} = \left(\frac{D_1}{D_2}\right)^5$$

The power requirement changes proportionately to the fifth power of wheel diameter.

Changes in the density at constant speed (or change of the Kelvin temperature at a constant volume flow):

$$V = \text{Const}$$

The volume flow is not affected.

$$\frac{p_1}{p_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

All pressures (static, dynamic and total) change proportionately to the density.*

$$\frac{P_1}{P_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

The power requirement changes proportionately to the density.*

*Temperature is expressed in kelvin scale [K]

Formulas are of an informative nature.

[illegible]

[illegible]

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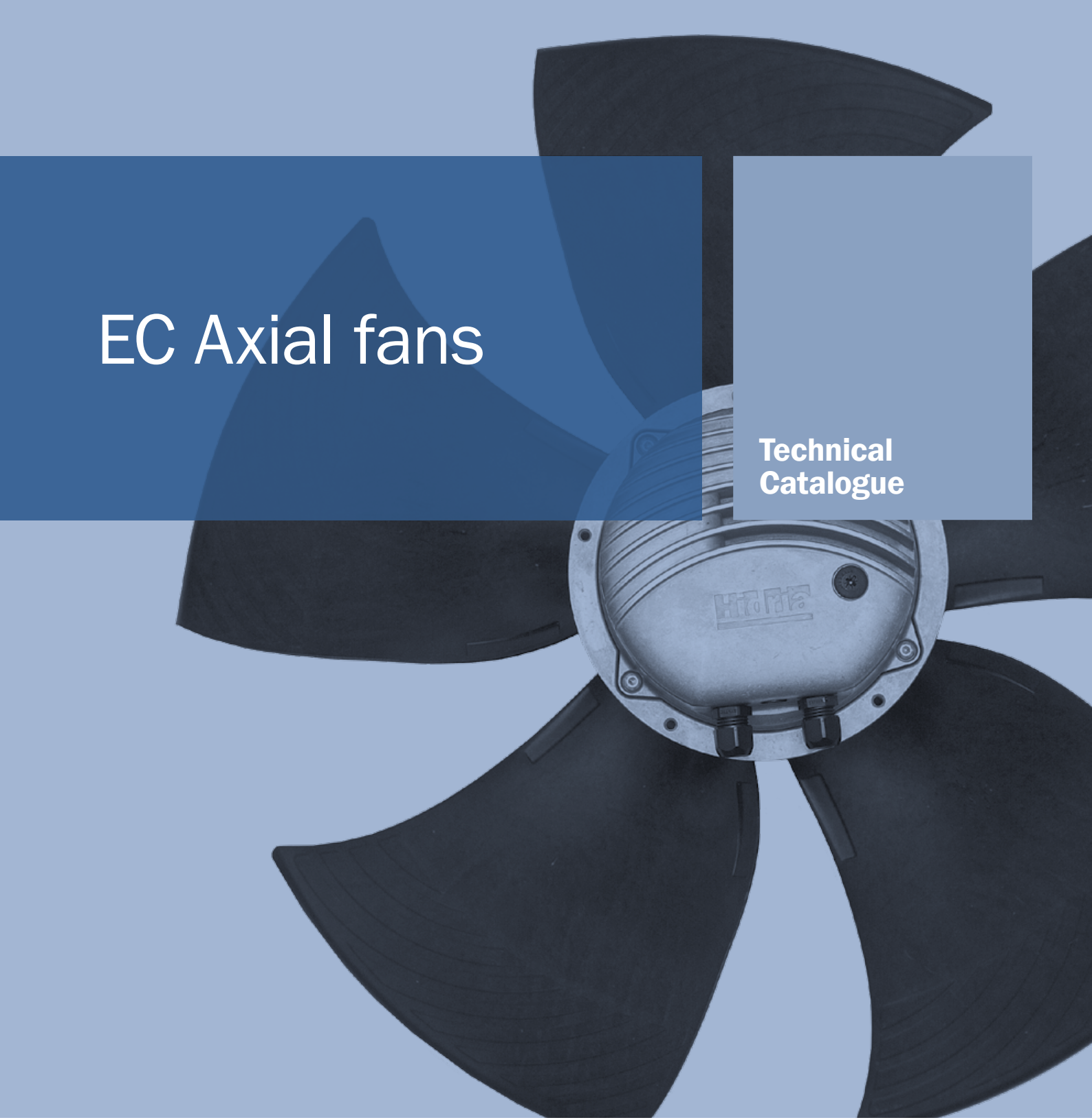
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A close-up photograph of an EC axial fan. The fan has five dark, curved blades radiating from a central silver-colored motor housing. The motor housing has a circular face with a small screw and two electrical terminals at the bottom. The background is a light blue gradient.

EC Axial fans

Technical
Catalogue

General data

Labelling

Labelling a fan as ErP2015-compliant indicates that it meets the minimum requirements set out in related Commission Regulation EU No 327/2011. The actual energy efficiency level of the fan used for the ErP rating is noted as $\eta_{stat A}$. In order to comply with the requirements contained in the ErP regulation, the fan's energy efficiency level must reach a specific minimum value (target energy level). Efficiency grade N is a parameter used in the calculation of the target energy efficiency as defined in Annex II of Commission Regulation EU No 327/2011. Any and all data pertaining to axial fan ErP classification refer to measurement data established using the Hidria axial fan equipped with a standard full bell mouth without a guard grille. Actual fan performance data including the efficiency level for each and every ErP compliant fan are published on the Hidria website www.hidria.com.

Aerodynamics and Acoustics

Measurement method

The 'characteristic curve' diagram shows the pressure increase Δp_s in Pa as a function of the volume flow rate q_V in m^3/h . The specified performance data meets accuracy class 3 as defined with DIN 24 166 (ISO13348), and applies to the rated data and air performance curves at the rated voltage, an air density of 1.2 kg/m^3 and a 20°C ambient temperature. The continuous line in the characteristic map represents the recommended operating range for axial fans.

Fan test bench

The fan characteristic curves are determined on a combined ventilation and sound reverberation room test bench.

The characteristic curves are measured in compliance with DIN EN ISO 5801.

The sound power levels are measured in a reverberation room in compliance with DIN EN ISO 3743. The fan is attached to the measuring chamber with a free (air) intake and (air) outlet (installation type A in compliance with DIN EN ISO 5801). Unless otherwise indicated, this catalogue specifies the intake side A-evaluated sound power levels LWA. The standard measurements are carried out without the need for additional parts, e.g. a guard grille. The A-weighted sound power level is the standard variable used to assess the sound characteristics of technical equipment.

LVD and EMC compliance

The Electromagnetic Compatibility limits set in Directive 2004/108/EC ensure that electrical and electronic equipment does not generate, or is not affected by, electromagnetic disturbance. EMC compliance of the fan arrangement has to be established on the final appliance as different mounting configurations can result in changed EMC properties.

Hidria fans are designed and produced in line with the Low Voltage Directive (LVD) 2006/95/CE, meaning that the health and safety risks when operating these fans in standardised power networks are negligible.

General notes

The information contained in this catalogue was prepared to the best of our ability and does not absolve the user from their duty to verify the suitability of the products with respect to the intended application. Hidria reserves the right to make design changes for the purpose of continuous performance and/or safety improvement.



01. EC Axial fans

Page

4

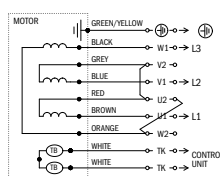
EC AXIAL FANS



02. Accessories

58

ACCESSORIES



03. Connection diagrams

66

CONNECTION DIAGRAMS

$$\frac{V_1}{V_2} = \frac{n_1}{n_2}$$

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$$

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$$

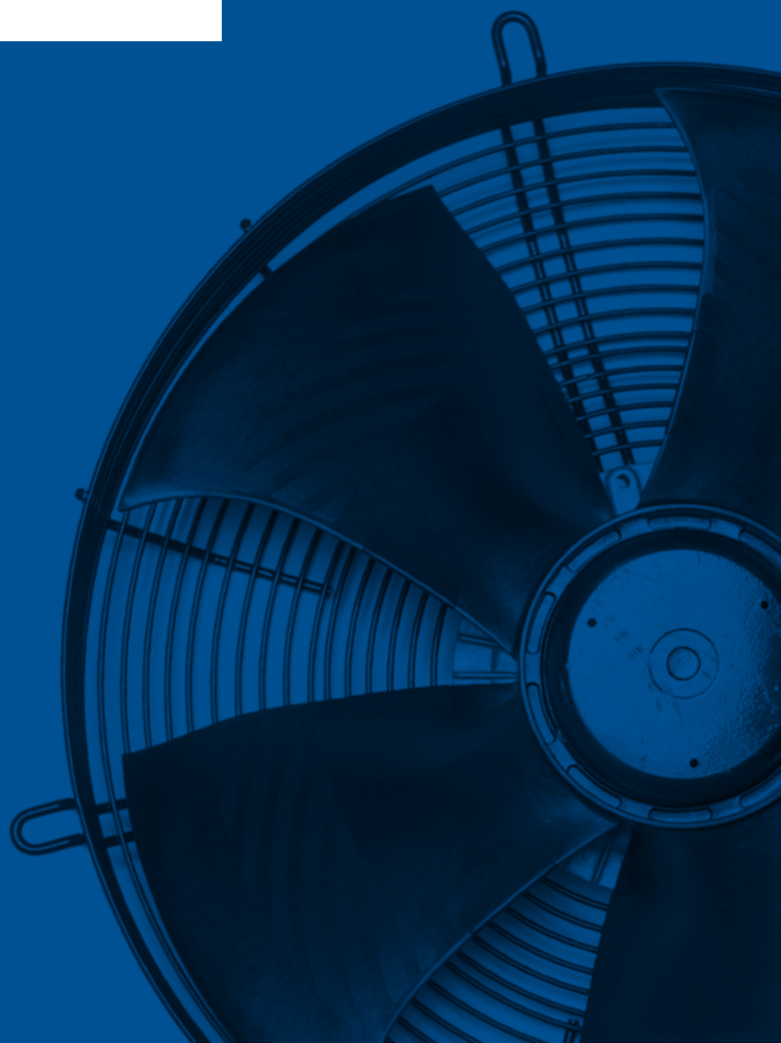
$$L_{wA_2} = L_{wA_1} + 50 \log \left(\frac{n_2}{n_1}\right)$$

04. Appendix

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APPENDIX

01



EC Axial fans

EC AXIAL FANS

ACCESSORIES

CONNECTION DIAGRAMS

APPENDIX

EC Axial fans

■ Electrical connection and motor

The three-phase or single-phase EC (Electronically Commutated) external rotor motor integrated into the fan hub meets the requirements for rotating electric machines as defined by the standard EN 60335-2-80:2003. EC motors are suitable for power networks with a single-phase voltage range of 200 to 277 V 50/60 Hz or a three-phase range of 380 to 480 V 50/60 Hz. Other voltages of frequency ranges are available upon customer request. Refer to the data sheet of each fan for the details.

■ Motor connection

Mains & control connections are made via a terminal box or outgoing connection cable as shown in the dimensional drawings. The standard connection scheme of an EC fan has terminals to connect:

- a 1- or 3-phase line,
- N – neutral,
- G – ground,
- analogue input (0–10 V or PWM),
- SELV power supply 10 VDC (max. 30 mA),
- MODBUS RTU – serial communication port, and
- a tach out or error out signal (programmable).

A reference control signal is optional when a built-in PID controller is required.

■ Terminal box and connection cable

Terminal boxes are made of shock-proof and weather-resistant composite material. Heat- and UV-resistant halogen-free multicore cables are used, marked by a colour code or connection designations as labelled on the terminal block. The cable construction complies with VDE 0282 Part 804 and is suitable for operating voltages of up to 400 VAC for single-phase products and 690 VAC for three-phase products.

■ Speed controls

Hidria EC fans are made with an integrated electronic variable speed drive (VSD). Speed variation can be achieved by a speed input signal 0 V to 10 VDC, 4–20 mA, Pulse Width Modulated (PWM) frequency signal or by use of a MODBUS RTU serial

communication port. Please read the EC fan safety, installation and maintenance instructions before any of these speed control schemes are used.

■ Installation and usage information

For the installation, maintenance and safe use of EC axial fans, please refer to the user manual.

■ Materials and corrosion protection

Hidria EC Axial fan impellers are made of high-performance PA or PP composite material or steel. The impeller is pressed onto the rotor. The stator flange and electronic cover are made of high-pressure, die-cast aluminium alloy. Additional painting is applied when high-corrosion protection is requested. Protection grills are made of steel and coated to meet resistance to corrosion according to ISO 12944-2 class C3 (medium). Additional coating is available on request.

■ Operating conditions and product life

Safety

The fans may only be operated when installed as intended and when safety is ensured by use of safety equipment according to DIN EN 294 resp. ISO13852 (DIN EN ISO 12100) or by other protection measures defined in the user manual.

Safety approvals

Depending on the product, Hidria fans comply with one or more of the following standards: EN 60335-1, EN 61800-5-1 and EN 60034-1. All EC fans are supplied with CE marking. UL/ CSA, CCC, SASO and/or EAC approvals on request. All EC fans meet the requirements of EU Directives ROHS 2011/65/EU and REACH 1907/2006/EC.

Installation orientations

EC fans are intended to be installed with the rotor in a horizontal position or with the rotor at the bottom of the fan (vertical position with the connection box or cables on the top). The lower condensation drain hole must be open when the fan is

installed vertically, that is with the rotor at the bottom. With a horizontal mounting position, condensate can escape via the gap between the stator and rotor. Fans suitable for vertical installation with the rotor at the top (connection box or cables at the bottom) or at any other angle are only available on request.

Operating mode

Continuous operation (S1). Use the speed control input signal when On/Off cycling of the EC fan is required. Power supply cycling is only allowed in certain conditions. See the EC fan user manual.

Resistance to water, dust and moisture

The majority of axial fans are resistant to the presence of water, dust and moisture as defined by class IP44, IP54 or even IP55 on request (IEC 60529, IEC60034, IEC60335).

Ambient conditions

If not instructed differently, the fans can be subjected to the following conditions:

- placed outdoors (rain, snow, UV radiation)
- working ambient temperatures of between -25 °C (-40 °C) and +65 °C
- storage temperatures: -40 °C to +80 °C

Product life

By utilising lifetime-maintenance-free bearings, our EC axial fans are maintenance-free for the entire lifetime of approximately 30,000–40,000 hours for standard applications and environmental conditions.

Contact protection

The preferred 'protective construction' used on axial fans is a guard grille. Depending on the airflow direction, the guard grille is located on the intake or pressure side of the fan. The 'Accessories' section contains separate guard grills which can be positioned on the pressure or intake side of the fan as required and depending on the installation situation, to meet the safety requirements set out in DIN EN ISO 13857 defining safety distance requirements to prevent upper limbs from getting into hazardous areas.

Be aware that the use of guard grills results in increased resistance to the conveyed airflow, which manifests in additional pressure loss.



Diameters: 300-350 mm

8-19



Diameters: 400-500 mm

20-37



Diameters: 560-800 mm

38-57

Example of type key:

R10R-40APS-ES50B-02A01
R10 External rotor motor type (R09, R10, R14)

R Accessory type (E - without guard grill, R - with guard grill, P - with guard grill and wall plate)

40 Fan diameter x 10 (exact diameters are stated in drawings)

AP Type of blades (30H, SP, AP, LP)

S Airflow direction (S - sucking, B - blowing)

E Fan motor type (E - fan with electronically commutated motor and integrated VSD)

S Electrical connection (S - single phase, T - three phase)

50 Motor stack height

B Type of connection (B - connection box with terminal block, C - cable)

02 Version of motor construction

A Version of electronic controller

01 Settings of electronic controller

Diameter:

300 mm

R09_-3030H_-ES25C-01A04



Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230V
Nominal voltage range	230 V
Frequency	50-60Hz
Input power	80 W
Input current	0.64 A
Nominal speed	1650 RPM
Min. ambient temperature	-25 °C
Protection class	IP44
Insulation class	130

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

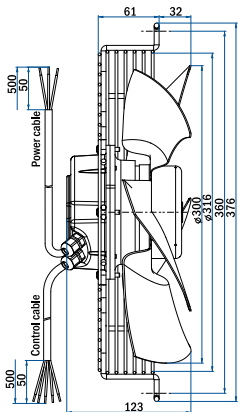
General notes

Connection diagram: 0302-1-0000	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

Dimensions and fan ordering information

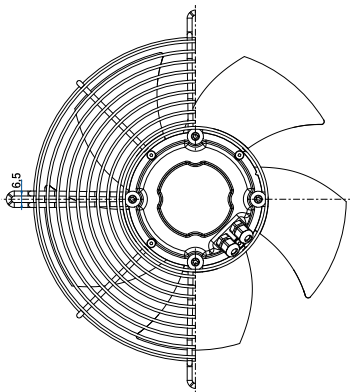
Airflow direction - sucking

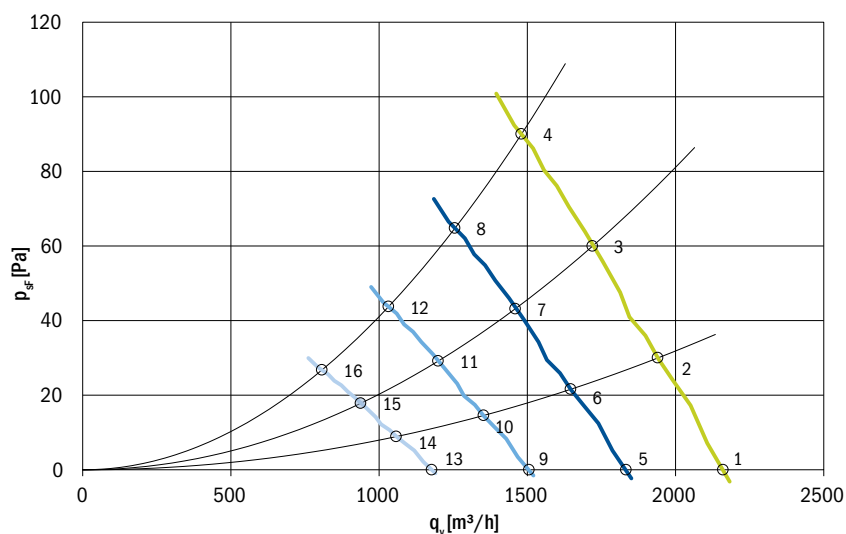
Type: R09R-3030HS-ES25C-01A04
Code: 0309-4-2003
Weight: 3.3kg



Airflow direction - sucking

Type: R09P-3030HS-ES25C-01A04
Code: On request
Weight:





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{wA} out [dB (A)]	T _a max [°C]
1	230	50	1650	2160	0	60	0.50	68	65
2	230	50	1650	1940	30	72	0.59	68	65
3	230	50	1650	1720	60	80	0.64	66	65
4	230	50	1650	1480	90	85	0.69	66	65
5	230	50	1400	1833	0	40	0.34	64	65
6	230	50	1400	1646	22	47	0.39	64	65
7	230	50	1400	1459	43	50	0.41	61	65
8	230	50	1400	1256	65	54	0.44	62	65
9	230	50	1150	1505	0	24	0.21	60	65
10	230	50	1150	1352	15	28	0.24	59	65
11	230	50	1150	1199	29	31	0.26	56	65
12	230	50	1150	1032	44	32	0.27	57	65
13	230	50	900	1178	0	14	0.13	54	65
14	230	50	900	1058	9	15	0.14	53	65
15	230	50	900	938	18	17	0.15	50	65
16	230	50	900	807	27	18	0.16	49	65

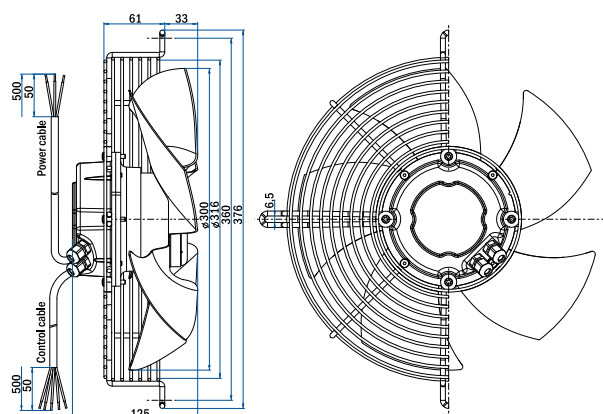
U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³ / h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature



Type: R09R-3030HB-ES25C-01A04
Code: On request
Weight:



Type: R09P-3030HB-ES25C-01A04
Code: On request
Weight:



Diameter:

300 mm



R09_-30SP_-ES25C-03B07

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-253 V
Frequency	50-60 Hz
Input power	165 W
Input current	1.35 A
Nominal speed	2140 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	48.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	60
Variable speed drive	INTEGRATED
Power input	160 W
Air flow	1880 m³/h
Pressure drop	133 Pa
Rotational speed	2140 RPM
Specific ratio	1.00

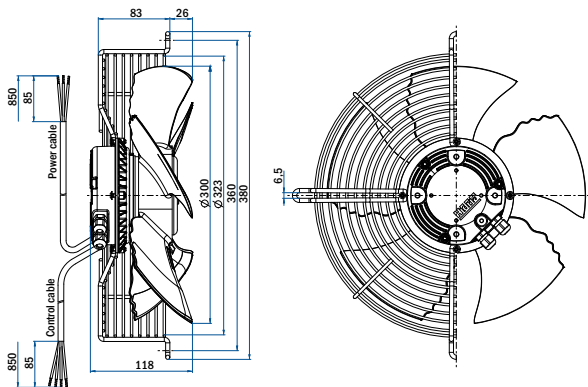
General notes

Connection diagram:	0302-0-0008	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

Dimensions and fan ordering information

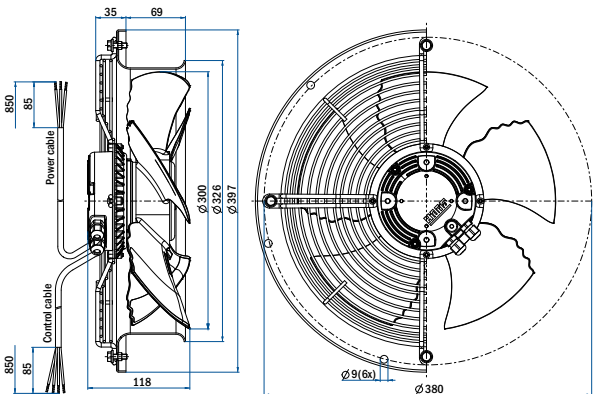
Airflow direction - sucking

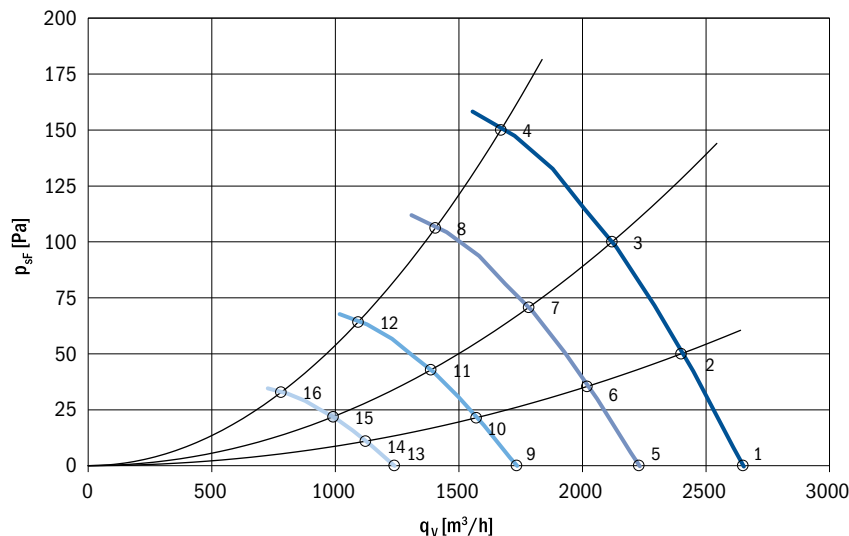
Type: R09R-30SPS-ES25C-03B07
Code: 0309-4-3000
Weight: 3.0 kg



Airflow direction - sucking

Type: R09P-30SPS-ES25C-03B07
Code: 0309-4-3001
Weight: 4.1 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	2140	2650	0	115	0.94	69	60
2	230	50	2140	2400	50	130	1.08	70	60
3	230	50	2140	2120	100	145	1.19	70	60
4	230	50	2140	1670	150	160	1.29	71	60
5	230	50	1800	2229	0	68	0.56	64	60
6	230	50	1800	2019	35	77	0.64	65	60
7	230	50	1800	1783	71	86	0.71	65	60
8	230	50	1800	1405	106	95	0.77	66	60
9	230	50	1400	1734	0	32	0.26	56	60
10	230	50	1400	1570	21	36	0.30	57	60
11	230	50	1400	1387	43	41	0.33	57	60
12	230	50	1400	1093	64	45	0.36	58	60
13	230	50	1000	1238	0	12	0.10	46	60
14	230	50	1000	1121	11	13	0.11	47	60
15	230	50	1000	991	22	15	0.12	47	60
16	230	50	1000	780	33	16	0.13	48	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

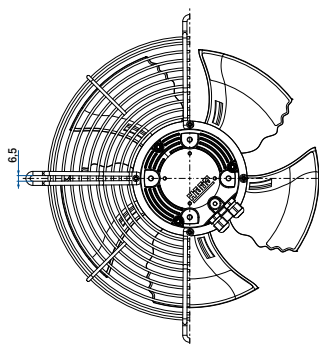
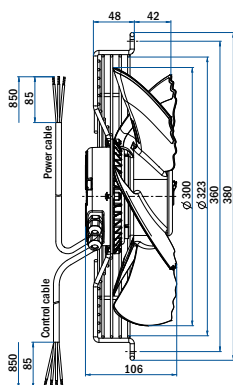
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature

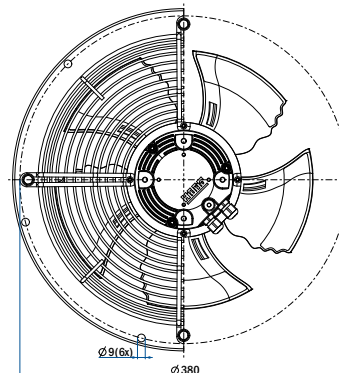
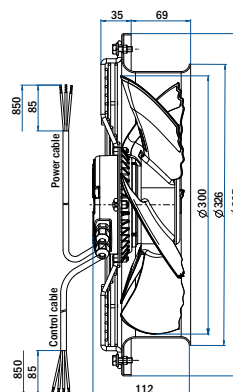
Airflow direction - blowing

Type: R09R-30SPB-ES25C-03B07
Code: 0309-4-3008
Weight: 2.6 kg



Airflow direction - blowing

Type: R09P-30SPB-ES25C-03B07
Code: 0309-4-3009
Weight: 4.1 kg



Diameter:

315 mm

R09_-3130H_-ES25C-01A04



Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230V
Nominal voltage range	230 V
Frequency	50-60Hz
Input power	120 W
Input current	1.0 A
Nominal speed	1650 RPM
Min. ambient temperature	-25 °C
Protection class	IP44
Insulation class	130

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

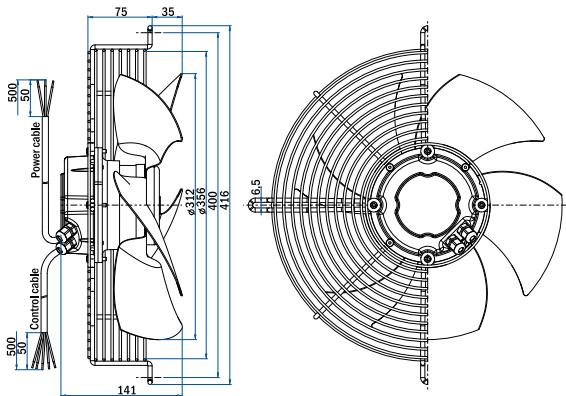
General notes

Connection diagram: 0302-1-0000	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

Dimensions and fan ordering information

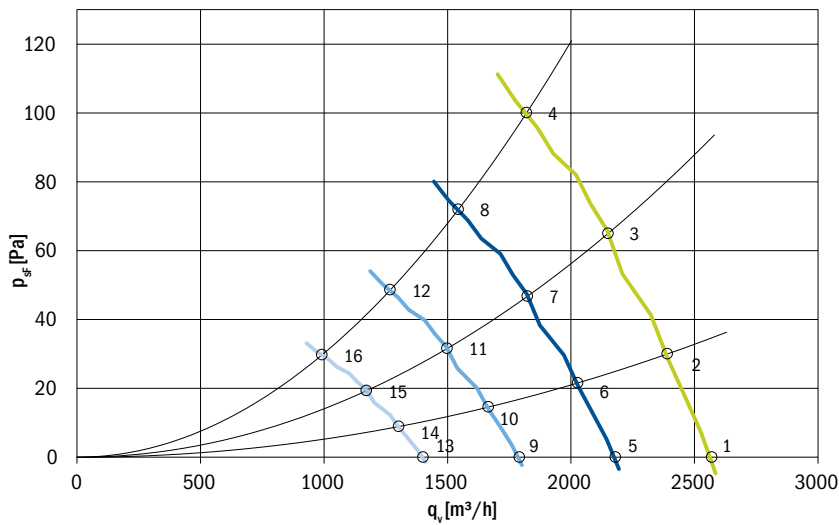
Airflow direction - sucking

Type: R09R-3130HS-ES25C-01A04
Code: 0309-4-2002
Weight: 3.3kg



Airflow direction - sucking

Type: R09P-3130HS-ES25C-01A04
Code: On request
Weight:



	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	230	50	1650	2570	0	84	0.69	66	65
2	230	50	1650	2390	30	99	0.80	65	65
3	230	50	1650	2150	65	112	0.88	64	65
4	230	50	1650	1820	100	123	0.96	64	65
5	230	50	1400	2181	0	53	0.46	62	65
6	230	50	1400	2028	22	66	0.52	61	65
7	230	50	1400	1824	47	71	0.57	60	65
8	230	50	1400	1544	72	77	0.63	60	65
9	230	50	1150	1791	0	31	0.27	57	65
10	230	50	1150	1666	15	37	0.32	56	65
11	230	50	1150	1498	32	41	0.34	55	65
12	230	50	1150	1268	49	45	0.37	55	65
13	230	50	900	1402	0	18	0.16	51	65
14	230	50	900	1304	9	20	0.17	50	65
15	230	50	900	1173	19	23	0.20	49	65
16	230	50	900	993	30	24	0.20	49	65

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

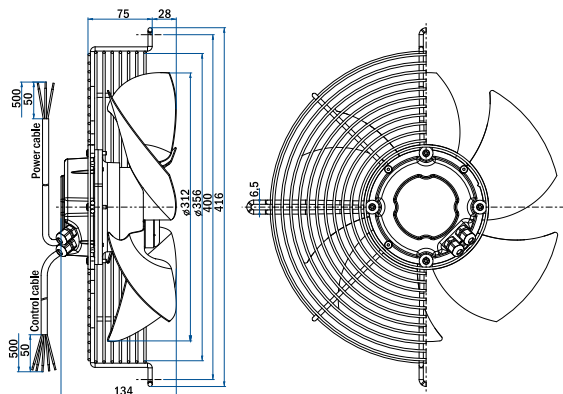
U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _{a max} [°C]	Max. ambient temperature



Type: R09R-3130HB-ES25C-01A04
Code: On request
Weight:



Type: R09P-3130HB-ES25C-01A04
Code: On request
Weight:



Diameter:

330 mm



R09_-3330H_-ES25C-01A06

Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Nominal voltage range	230 V
Frequency	50-60 Hz
Input power	120 W
Input current	0.90 A
Nominal speed	1550 RPM
Min. ambient temperature	-25 °C
Protection class	IP44
Insulation class	130

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

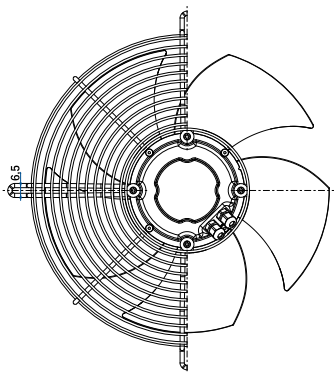
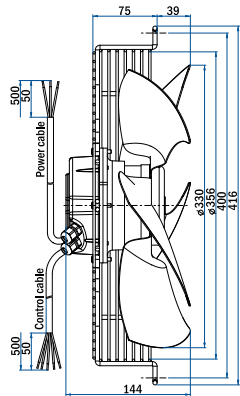
General notes

Connection diagram:	0302-1-0000	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

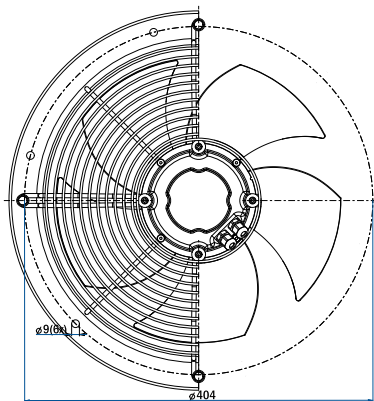
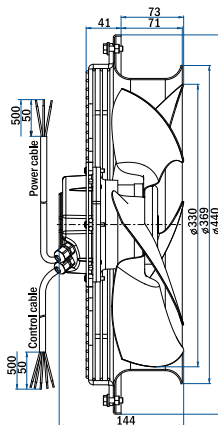
Dimensions and fan ordering information

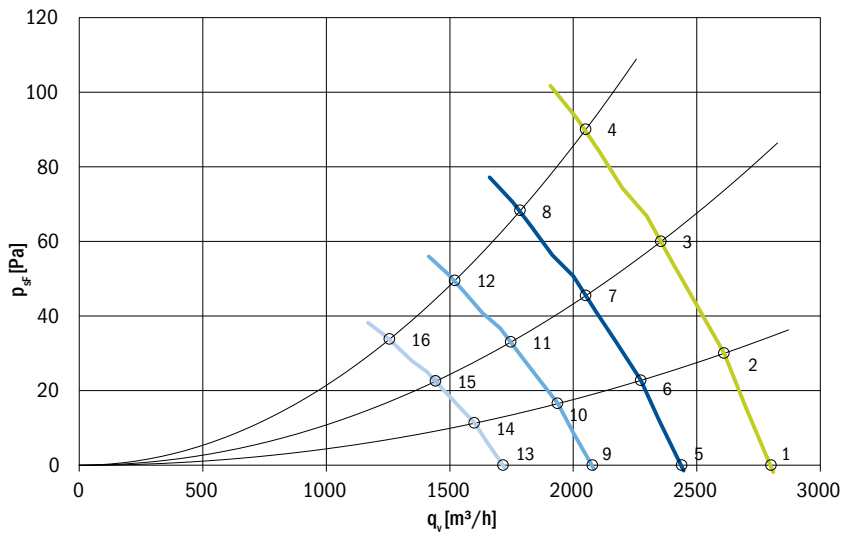


Type: R09R-3330HS-ES25C-01A06
Code: 0309-4-2001
Weight: 3.5kg



Type: R09P-3330HS-ES25C-01A06
Code: On request
Weight:





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	230	50	1550	2800	0	83	0.68	70	65
2	230	50	1550	2610	30	98	0.80	68	65
3	230	50	1550	2355	60	116	0.94	66	65
4	230	50	1550	2050	90	123	0.99	66	65
5	230	50	1350	2439	0	53	0.49	66	65
6	230	50	1350	2273	23	68	0.56	64	65
7	230	50	1350	2051	46	76	0.64	63	65
8	230	50	1350	1785	68	81	0.66	62	65
9	230	50	1150	2077	0	38	0.32	62	65
10	230	50	1150	1936	17	44	0.37	60	65
11	230	50	1150	1747	33	47	0.41	59	65
12	230	50	1150	1521	50	53	0.43	58	65
13	230	50	950	1716	0	21	0.19	57	65
14	230	50	950	1600	11	26	0.23	55	65
15	230	50	950	1443	23	28	0.24	54	65
16	230	50	950	1256	34	32	0.27	53	65

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

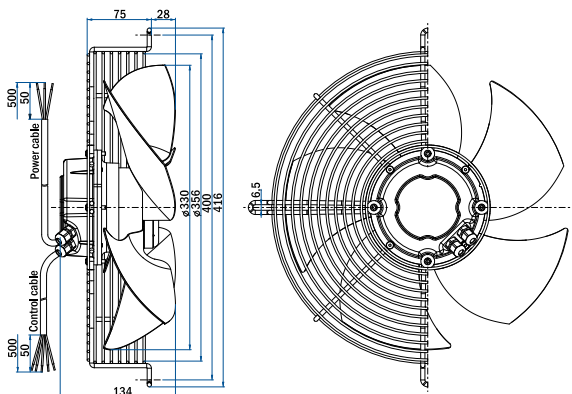
U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _{a max} [°C]	Max. ambient temperature



Type: R09R-3330HB-ES25C-01A06
Code: On request
Weight:



Type: R09P-3330HB-ES25C-01A06
Code: On request
Weight:



Diameter:

350 mm

R09_-3530H_-ES25C-01A01



Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Nominal voltage range	230 V
Frequency	50-60 Hz
Input power	125 W
Input current	0.98 A
Nominal speed	1400 RPM
Min. ambient temperature	-25 °C
Protection class	IP44
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	46.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	58.7
Variable speed drive	INTEGRATED
Power input	127 W
Air flow	1860 m³/h
Pressure drop	103 Pa
Rotational speed	1393 RPM
Specific ratio	1.00

General notes

Connection diagram: 0302-1-0000	See section Connection diagrams
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Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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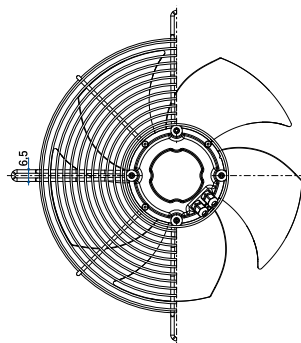
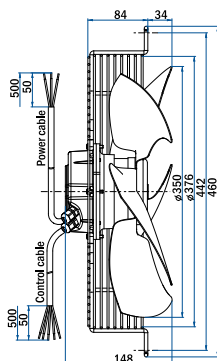
Dimensions and fan ordering information

Airflow direction - sucking

Type: R09R-3530HS-ES25C-01A01

Code: 0309-4-2000

Weight: 3.6 kg

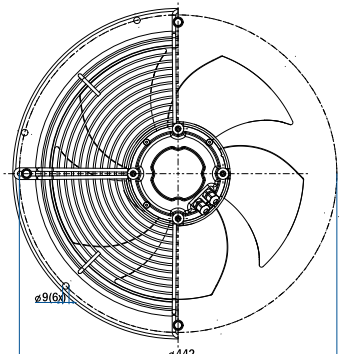
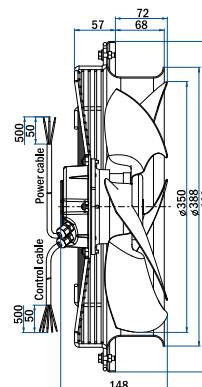


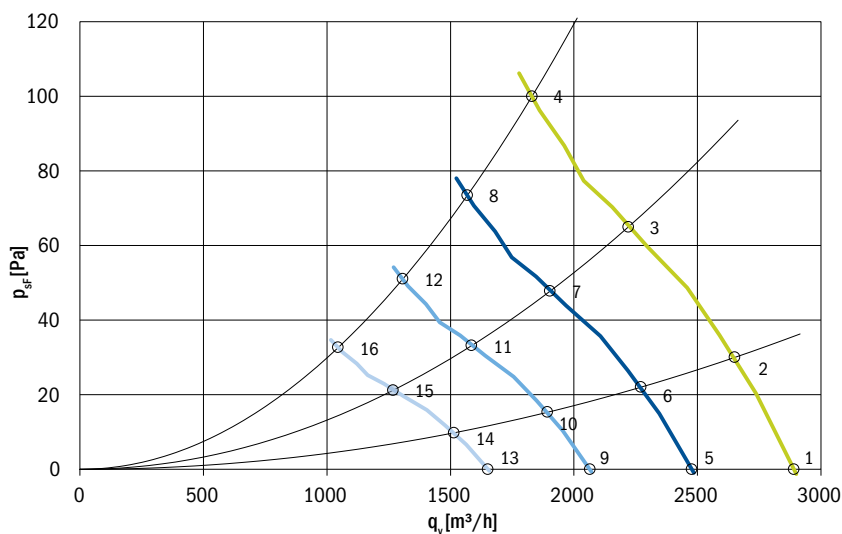
Airflow direction - sucking

Type: R09P-3530HS-ES25C-01A01

Code: On request

Weight:





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	1400	2890	0	84	0.66	70	65
2	230	50	1400	2650	30	103	0.79	67	65
3	230	50	1400	2220	65	109	0.88	65	65
4	230	50	1400	1830	100	132	1.02	67	55
5	230	50	1200	2477	0	56	0.45	66	65
6	230	50	1200	2271	22	67	0.53	63	65
7	230	50	1200	1903	48	76	0.60	62	65
8	230	50	1200	1569	73	88	0.68	63	65
9	230	50	1000	2064	0	35	0.28	62	65
10	230	50	1000	1893	15	40	0.35	58	65
11	230	50	1000	1586	33	44	0.37	56	65
12	230	50	1000	1307	51	52	0.42	58	65
13	230	50	800	1651	0	20	0.16	55	65
14	230	50	800	1514	10	23	0.19	52	65
15	230	50	800	1269	21	24	0.22	50	65
16	230	50	800	1046	33	29	0.24	52	65

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

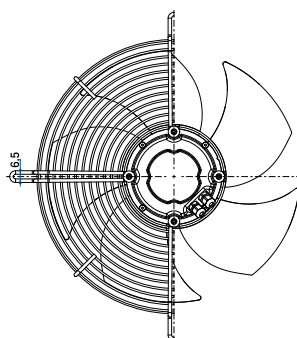
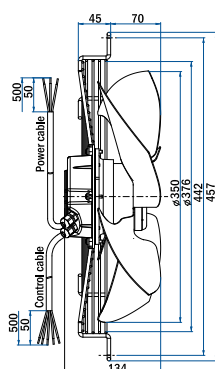
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature

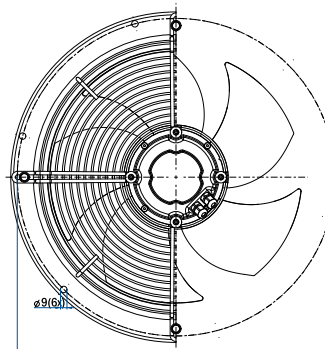
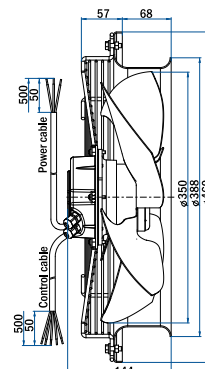
Airflow direction - blowing

Type: R09R-3530HB-ES25C-01A01
Code: 0309-4-2021
Weight: 3.6 kg



Airflow direction - blowing

Type: R09P-3530HB-ES25C-01A01
Code: On request
Weight:



Diameter:

350 mm



R09_-35AP_-ES25C-04B08

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	220-253 V
Frequency	50-60 Hz
Input power	160 W
Input current	1.25 A
Nominal speed	1475 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	44.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	55.8
Variable speed drive	INTEGRATED
Power input	160 W
Air flow	2435 m³/h
Pressure drop	95 Pa
Rotational speed	1474 RPM
Specific ratio	1.00

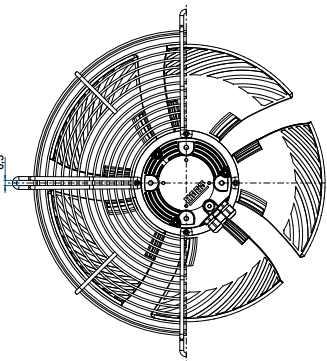
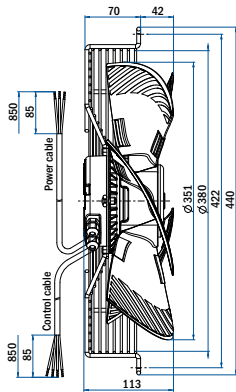
General notes

Connection diagram:	0302-0-0008	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

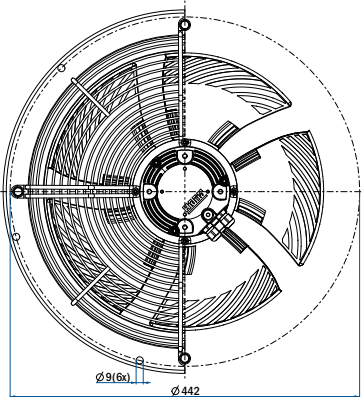
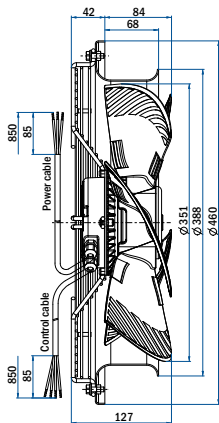
Dimensions and fan ordering information

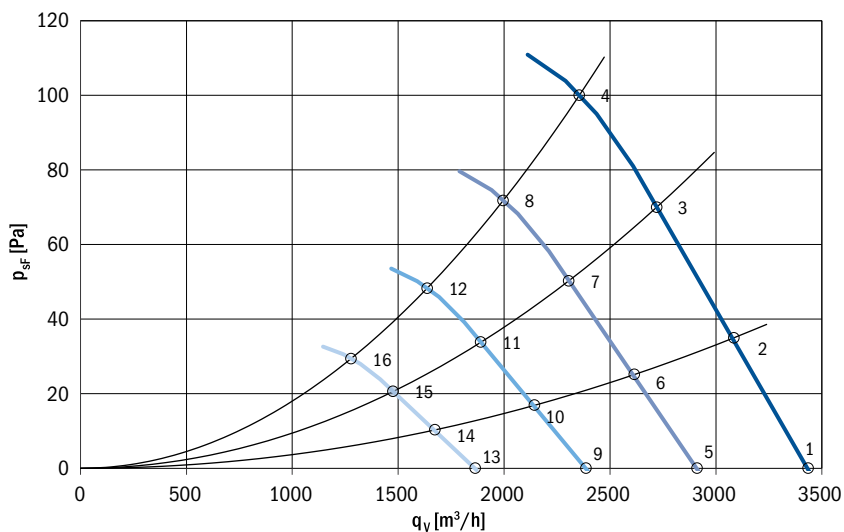


Type: R09R-35APS-ES25C-04B08
Code: 0309-4-3002
Weight: 3.6 kg



Type: R09P-35APS-ES25C-04B08
Code: 0309-4-3003
Weight: 5.3 kg





	U [V]	f [Hz]	n [RPM]	qv [m³/h]	psF [Pa]	Pe [W]	I [A]	LwA out [dB (A)]	Ta max [°C]
1	230	50	1475	3435	0	120	0.98	70	60
2	230	50	1475	3085	35	135	1.09	68	60
3	230	50	1475	2720	70	150	1.23	65	60
4	230	50	1475	2355	100	160	1.30	67	60
5	230	50	1250	2911	0	73	0.60	65	60
6	230	50	1250	2614	25	82	0.66	63	60
7	230	50	1250	2305	50	91	0.75	60	60
8	230	50	1250	1996	72	97	0.79	62	60
9	230	50	1025	2387	0	40	0.33	59	60
10	230	50	1025	2144	17	45	0.37	57	60
11	230	50	1025	1890	34	50	0.41	55	60
12	230	50	1025	1637	48	54	0.44	56	60
13	230	50	800	1863	0	19	0.16	51	60
14	230	50	800	1637	10	22	0.17	50	60
15	230	50	800	1475	21	24	0.20	48	60
16	230	50	800	1277	29	26	0.21	49	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

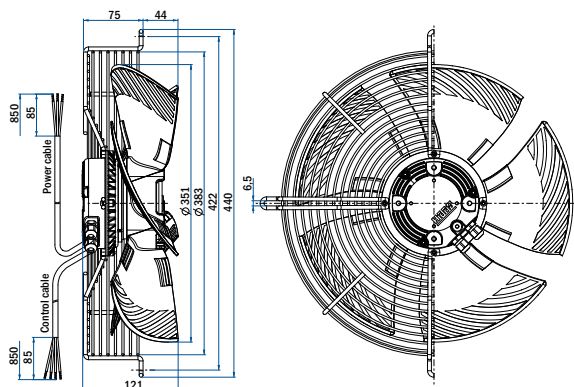
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
qv [m³/h]	Air flow
psF [Pa]	Pressure drop
Pe [W]	Power input
I [A]	Current
LwA [dB (A)]	Sound power level A weighted
Ta max [°C]	Max. ambient temperature

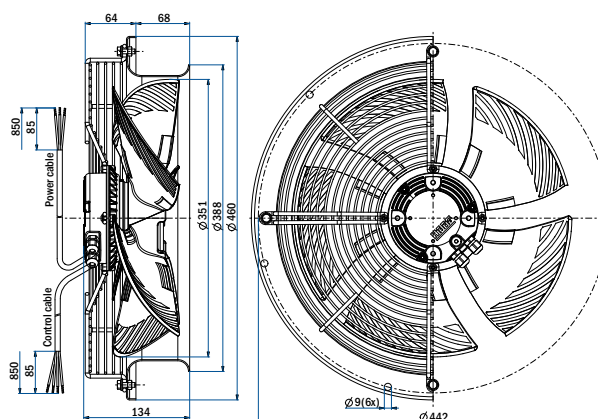
Airflow direction - blowing

Type: R09R-35APB-ES25C-04B08
Code: 0309-4-3010
Weight: 3.6 kg



Airflow direction - blowing

Type: R09P-35APB-ES25C-04B08
Code: 0309-4-3011
Weight: 5.5 kg



Diameter:

400 mm



R09_-40AP_-ES25C-05B09

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-253 V
Frequency	50-60 Hz
Input power	135 W
Input current	1.05 A
Nominal speed	1080 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	41.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	53.4
Variable speed drive	INTEGRATED
Power input	140 W
Air flow	2709 m³/h
Pressure drop	67 Pa
Rotational speed	1079 RPM
Specific ratio	1.00

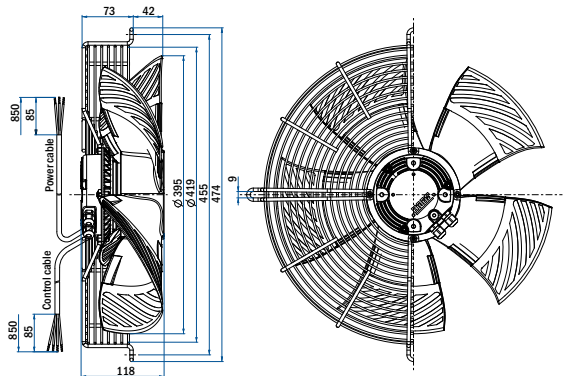
General notes

Connection diagram:	0302-0-0008	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

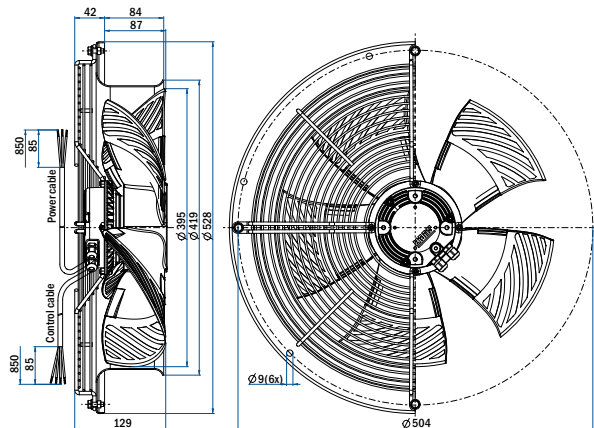
Dimensions and fan ordering information

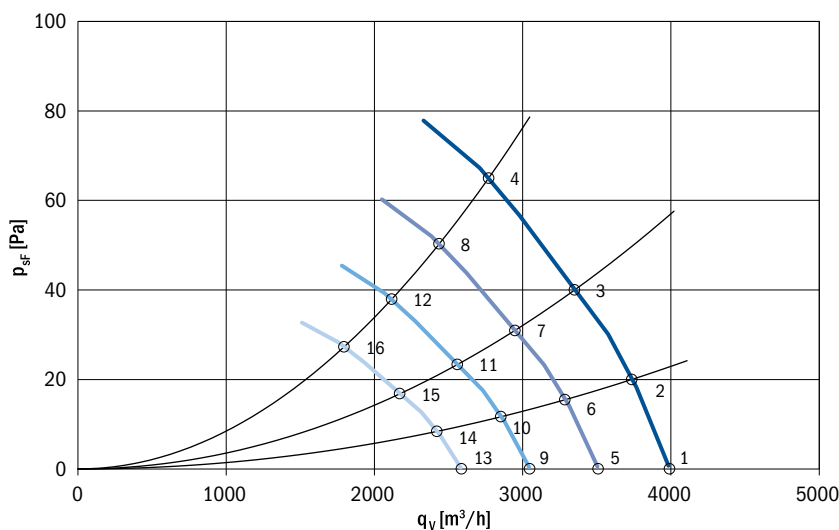


Type: R09R-40APS-ES25C-05B09
Code: 0309-4-3004
Weight: 4.1 kg



Type: R09P-40APS-ES25C-05B09
Code: 0309-4-3005
Weight: 6.4 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	230	50	1080	3990	0	108	0.87	65	60
2	230	50	1080	3735	20	120	0.94	64	60
3	230	50	1080	3350	40	130	1.02	61	60
4	230	50	1080	2770	65	135	1.04	60	60
5	230	50	950	3510	0	74	0.59	62	60
6	230	50	950	3285	15	82	0.64	60	60
7	230	50	950	2947	31	88	0.69	57	60
8	230	50	950	2437	50	92	0.71	56	60
9	230	50	825	3048	0	48	0.39	58	60
10	230	50	825	2853	12	53	0.42	56	60
11	230	50	825	2559	23	58	0.45	53	60
12	230	50	825	2116	38	60	0.46	52	60
13	230	50	700	2586	0	29	0.24	53	60
14	230	50	700	2421	8	33	0.26	51	60
15	230	50	700	2171	17	35	0.28	49	60
16	230	50	700	1795	27	37	0.28	48	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

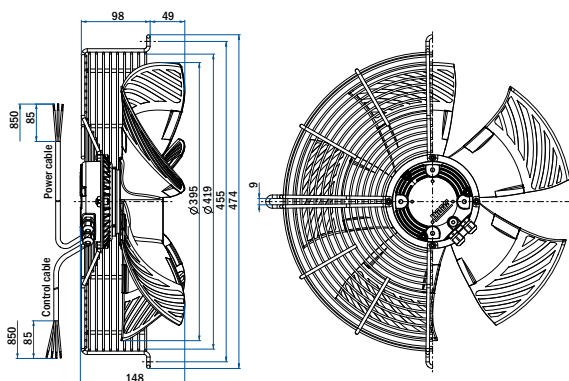
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _{a max} [°C]	Max. ambient temperature

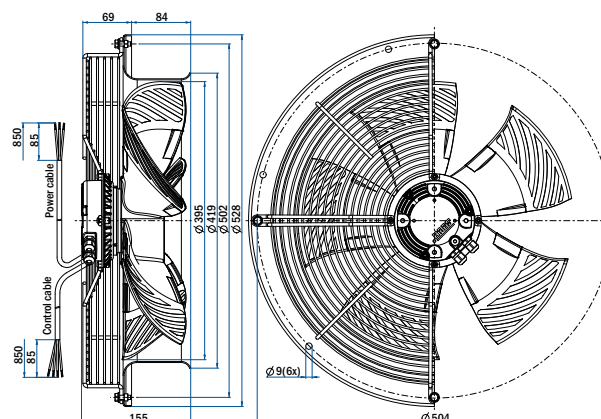
Airflow direction - blowing

Type: R09R-40APB-ES25C-05B09
Code: 0309-4-3012
Weight: 4.3 kg



Airflow direction - blowing

Type: R09P-40APB-ES25C-05B09
Code: 0309-4-3013
Weight: 6.6 kg



Diameter:

400 mm

R10_-40AP_-ES50B-02A01



Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-240 V
Frequency	50-60 Hz
Input power	320 W
Input current	2.15 A
Nominal speed	1520 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	43.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	52.4
Variable speed drive	INTEGRATED
Power input	342 W
Air flow	3069 m³/h
Pressure drop	161 Pa
Rotational speed	1504 RPM
Specific ratio	1.00

General notes

Connection diagram: 0302-0-0001	See section Connection diagrams
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Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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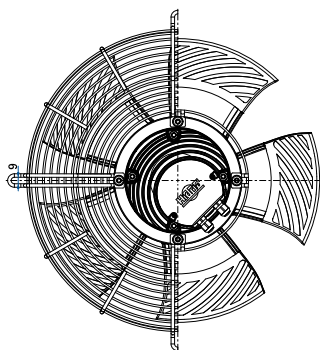
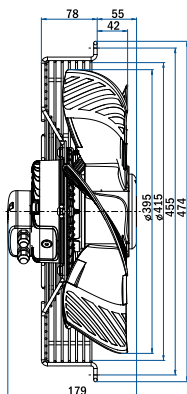
Dimensions and fan ordering information

Airflow direction - sucking

Type: R10R-40APS-ES50B-02A01

Code: 0310-4-0000

Weight: 6.2 kg

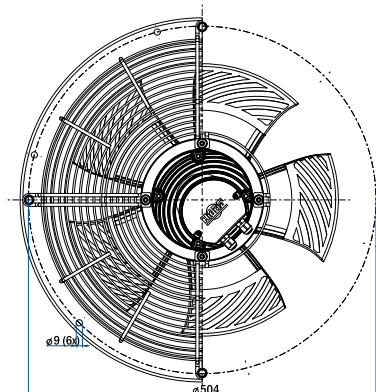
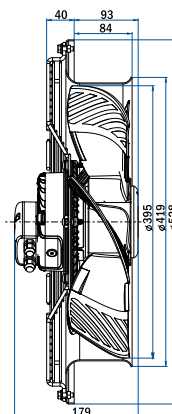


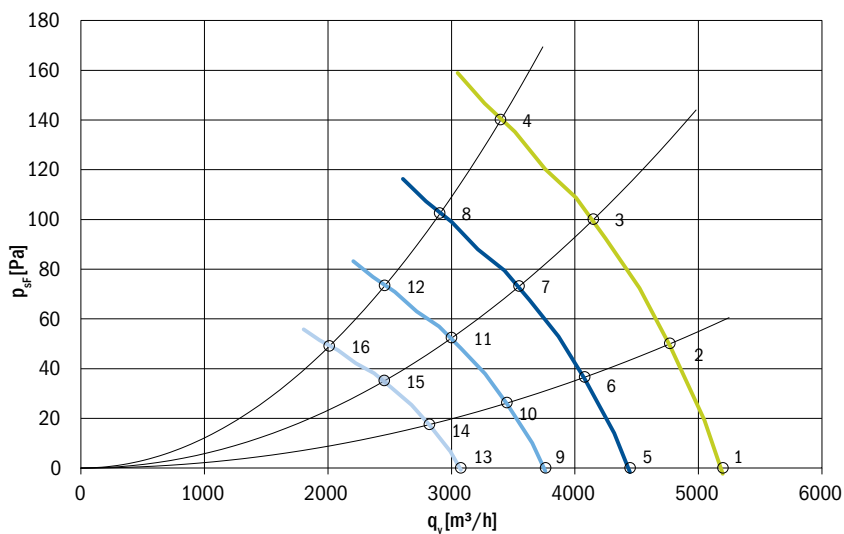
Airflow direction - sucking

Type: R10P-40APS-ES50B-02A01

Code: 0310-4-0025

Weight: 7.5 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	1520	5200	0	289	1.91	74	65
2	230	50	1520	4770	50	316	2.05	72	65
3	230	50	1520	4150	100	323	2.10	69	65
4	230	50	1520	3400	140	325	2.13	70	65
5	230	50	1300	4447	0	181	1.21	70	65
6	230	50	1300	4080	37	201	1.33	68	65
7	230	50	1300	3549	73	211	1.40	65	65
8	230	50	1300	2908	102	213	1.42	65	65
9	230	50	1100	3763	0	113	0.79	66	65
10	230	50	1100	3452	26	126	0.87	64	65
11	230	50	1100	3003	52	130	0.90	61	65
12	230	50	1100	2461	73	135	0.93	60	65
13	230	50	900	3079	0	68	0.49	60	65
14	230	50	900	2824	18	71	0.52	59	65
15	230	50	900	2457	35	76	0.55	56	65
16	230	50	900	2013	49	75	0.54	55	65

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

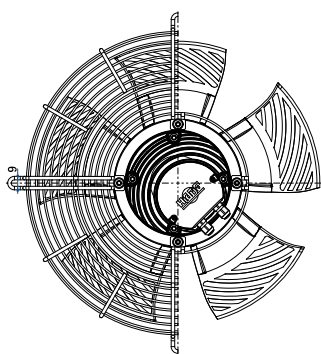
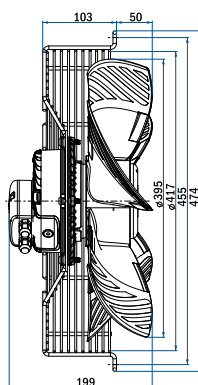
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature

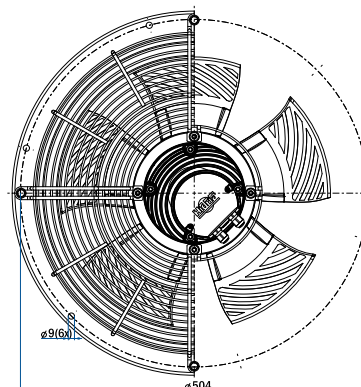
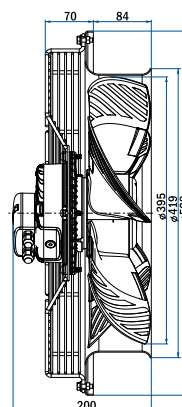
Airflow direction - blowing

Type: R10R-40APB-ES50B-02A01
Code: 0310-4-0026
Weight: 5.0 kg



Airflow direction - blowing

Type: R10P-40APB-ES50B-02A01
Code: 0310-4-0027
Weight: 7.5 kg



Diameter:

450 mm



R09_-45AP_-ES25C-02B10

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230V
Nominal voltage range	200-253 V
Frequency	50-60Hz
Input power	110 W
Input current	0.90 A
Nominal speed	835 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

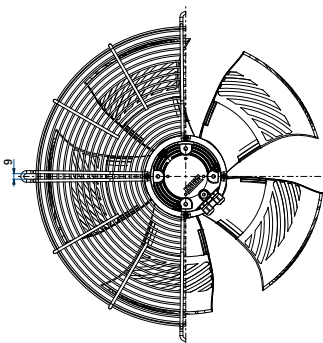
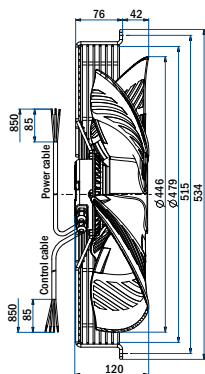
General notes

Connection diagram: 0302-0-0008	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

Dimensions and fan ordering information

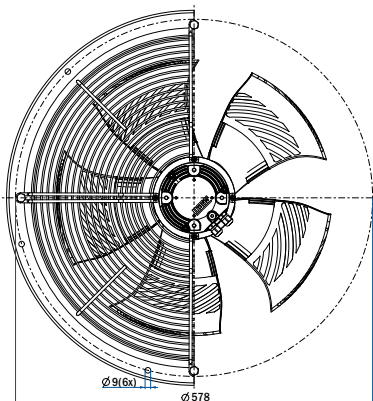
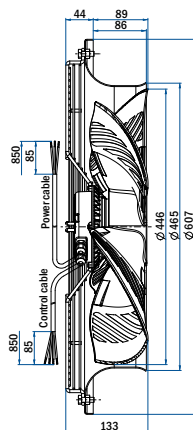
Airflow direction - sucking

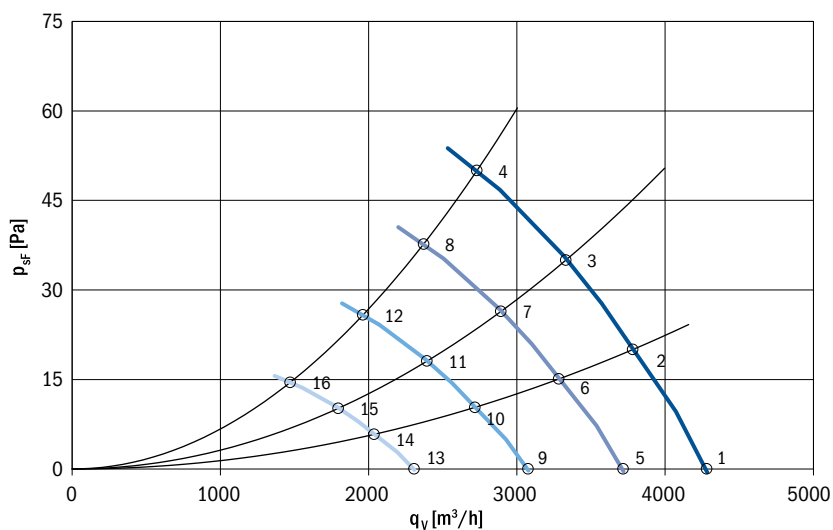
Type: R09R-45APS-ES25C-02B10
Code: 0309-4-3006
Weight: 4.5 kg



Airflow direction - sucking

Type: R09P-45APS-ES25C-02B10
Code: 0309-4-3007
Weight: 7.3 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	835	4280	0	74	0.65	60	55
2	230	50	835	3780	20	93	0.78	58	55
3	230	50	835	3330	35	103	0.86	57	55
4	230	50	835	2730	50	112	0.94	58	55
5	230	50	725	3716	0	48	0.43	56	55
6	230	50	725	3282	15	61	0.51	54	55
7	230	50	725	2891	26	67	0.56	53	55
8	230	50	725	2370	38	73	0.62	54	55
9	230	50	600	3075	0	27	0.24	51	55
10	230	50	600	2716	10	35	0.29	50	55
11	230	50	600	2393	18	38	0.32	49	55
12	230	50	600	1962	26	42	0.35	50	55
13	230	50	450	2307	0	12	0.10	44	55
14	230	50	450	2037	6	15	0.12	42	55
15	230	50	450	1795	10	16	0.13	42	55
16	230	50	450	1471	15	18	0.15	43	55

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

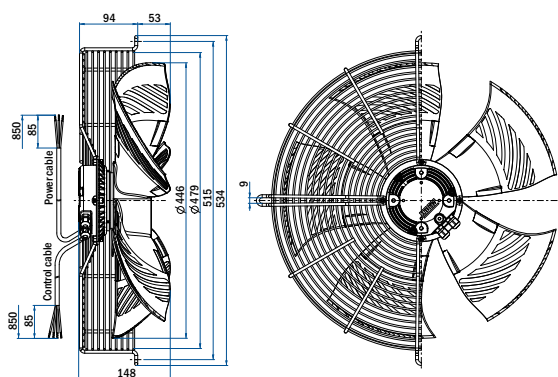
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature

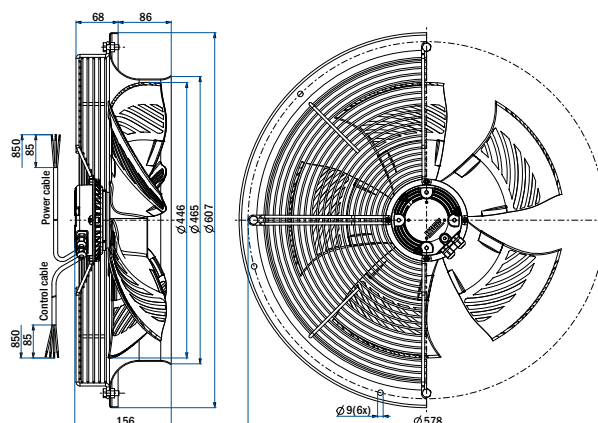
Airflow direction - blowing

Type: R09R-45APB-ES25C-02B10
Code: 0309-4-3014
Weight: 4.7 kg



Airflow direction - blowing

Type: R09P-45APB-ES25C-02B10
Code: 0309-4-3015
Weight: 7.5 kg



Diameter:

450 mm



R10_-45AP_-ES35B-01B23

Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Nominal voltage range	230 V
Frequency	50-60 Hz
Input power	145 W
Input current	1.15 A
Nominal speed	1000 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	47.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	58.8
Variable speed drive	INTEGRATED
Power input	0.16 kW
Air flow	3213 m³/h
Pressure drop	76 Pa
Rotational speed	1008 RPM
Specific ratio	1.00

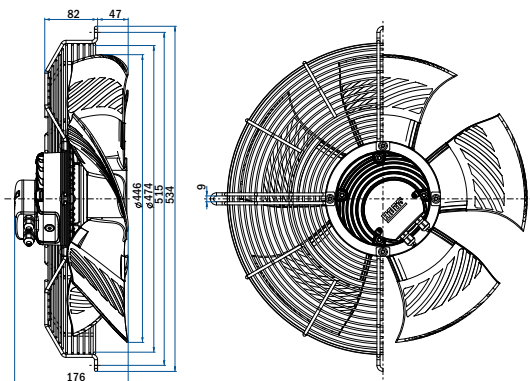
General notes

Connection diagram: 0302-0-0006	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

Dimensions and fan ordering information

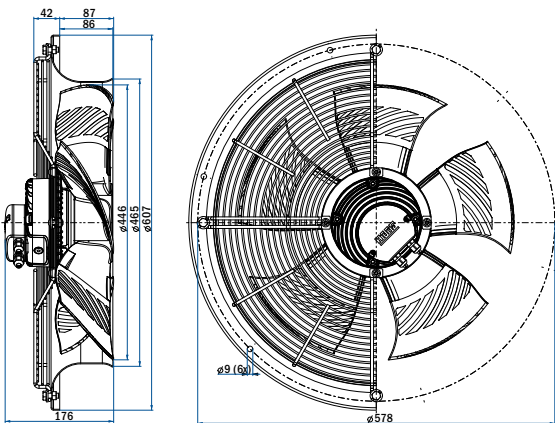
Airflow direction - sucking

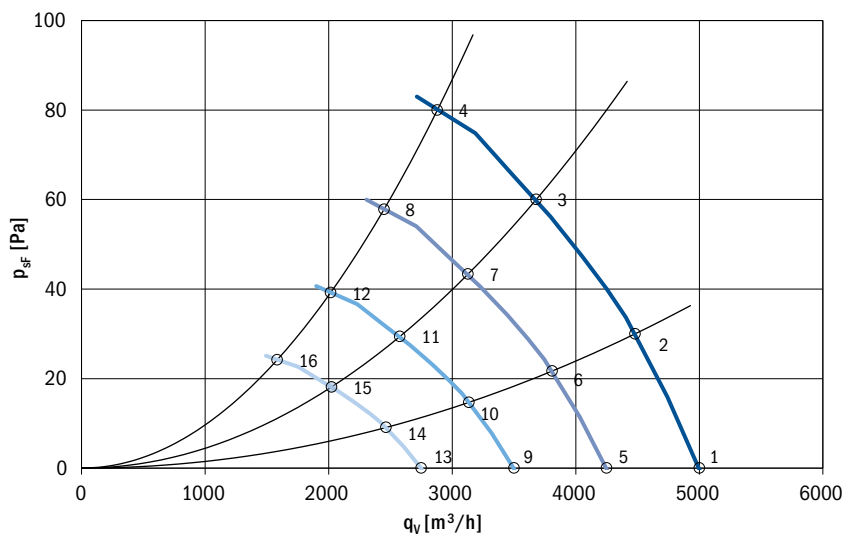
Type: R10R-45APS-ES35B-01B23
Code: 0310-4-0125
Weight: 5.8 kg



Airflow direction - sucking

Type: R10P-45APS-ES35B-01B23
Code: 0310-4-0126
Weight: 8.9 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sf} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	230	50	1000	5000	0	128	1.03	62	55
2	230	50	1000	4480	30	148	1.18	60	55
3	230	50	1000	3680	60	158	1.26	59	55
4	230	50	1000	2880	80	160	1.27	70	55
5	230	50	850	4250	0	79	0.63	58	55
6	230	50	850	3808	22	91	0.72	57	55
7	230	50	850	3128	43	97	0.77	55	55
8	230	50	850	2448	58	98	0.78	65	55
9	230	50	700	3500	0	44	0.35	53	55
10	230	50	700	3136	15	51	0.40	52	55
11	230	50	700	2576	29	54	0.43	50	55
12	230	50	700	2016	39	55	0.44	60	55
13	230	50	550	2750	0	21	0.17	49	55
14	230	50	550	2464	9	25	0.20	48	55
15	230	50	550	2024	18	26	0.21	47	55
16	230	50	550	1584	24	27	0.21	56	55

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

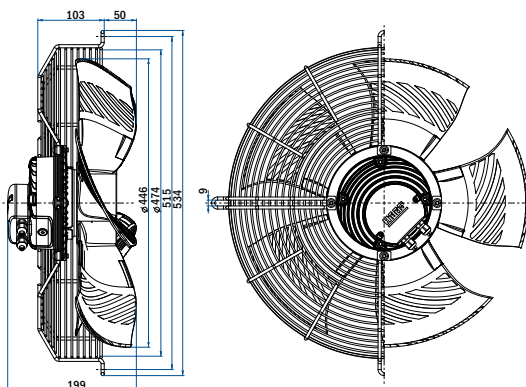
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sf} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _{a max} [°C]	Max. ambient temperature

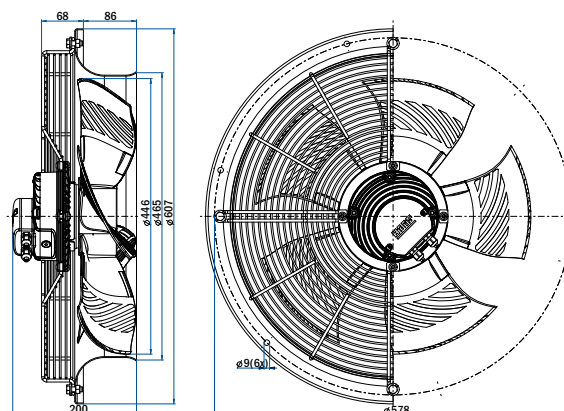
Airflow direction - blowing

Type: R10R-45APB-ES35B-01B23
Code: 0310-4-0078
Weight: 6.1 kg



Airflow direction - blowing

Type: R10P-45APB-ES35B-01B23
Code: 0310-4-0079
Weight: 9.1 kg



Diameter:

450 mm

R10_-45AP_-ES50B-09C05



COMPLIANT TO

ERP 2015

Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Nominal voltage range	220-240 V
Frequency	50-60 Hz
Input power	300 W
Input current	2.05 A
Nominal speed	1280 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	43.2 %
Measurement category	A
Efficiency category	static
Efficiency grade N	52.5
Variable speed drive	INTEGRATED
Power input	345 W
Air flow	3966 m³/h
Pressure drop	127 Pa
Rotational speed	1287 RPM
Specific ratio	1.00

General notes

Connection diagram: 0302-0-0006

See section
Connection diagrams

Guard grills & wall-plates

See section Accessories

Standards compliance

See introduction page

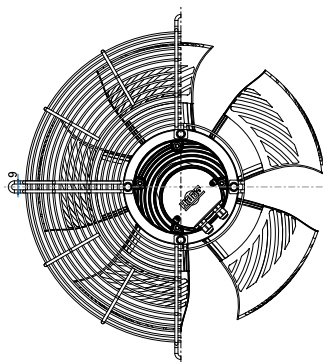
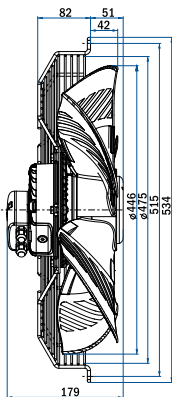
Dimensions and fan ordering information

Airflow direction - sucking

Type: R10R-45APS-ES50B-09C05

Code: 0310-4-0127

Weight: 5.3 kg

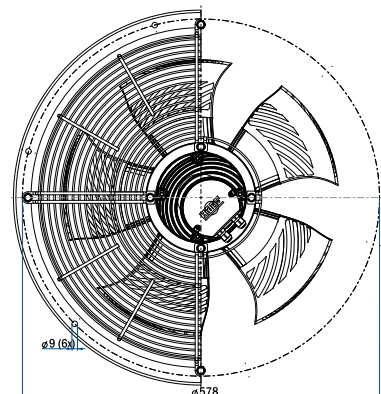
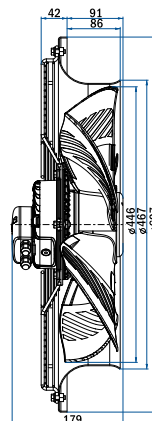


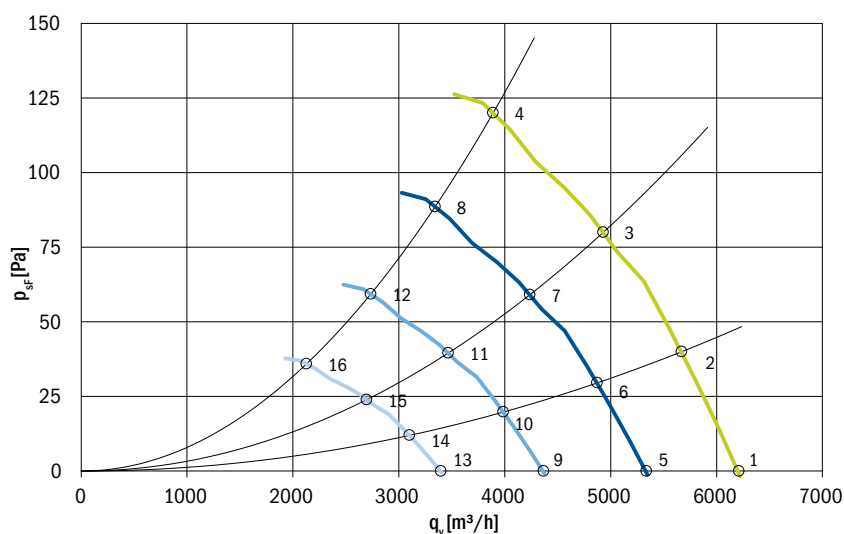
Airflow direction - sucking

Type: R10P-45APS-ES50B-09C05

Code: 0310-4-0128

Weight: 7.8 kg





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

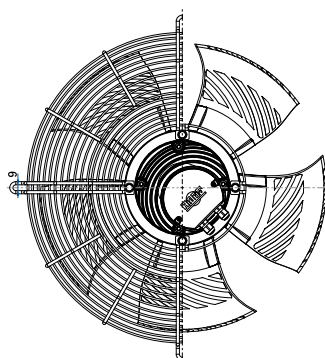
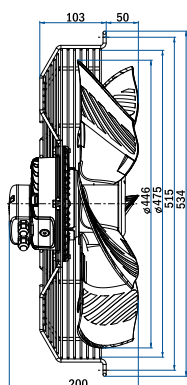
Definition of symbols

	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	1280	6210	0	251	1.67	69	65
2	230	50	1280	5670	40	287	1.88	68	65
3	230	50	1280	4930	80	303	2.00	67	65
4	230	50	1280	3890	120	321	2.07	68	65
5	230	50	1100	5337	0	163	1.10	65	65
6	230	50	1100	4873	30	183	1.22	63	65
7	230	50	1100	4237	59	200	1.32	63	65
8	230	50	1100	3343	89	209	1.38	64	65
9	230	50	900	4366	0	92.4	0.66	60	65
10	230	50	900	3987	20	103	0.73	59	65
11	230	50	900	3466	40	113	0.79	58	65
12	230	50	900	2735	59	115	0.81	59	65
13	230	50	700	3396	0	47	0.37	54	65
14	230	50	700	3101	12	52	0.40	53	65
15	230	50	700	2696	24	56	0.43	52	65
16	230	50	700	2127	36	57	0.43	52	65

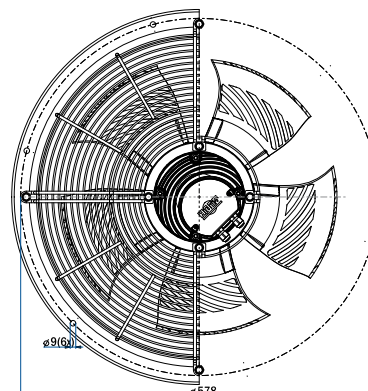
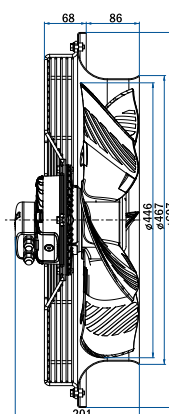
U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³ / h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature



Type: R10R-45APB-ES50B-09C05
Code: 0310-4-0129
Weight: 5.3 kg



Type: R10P-45APB-ES50B-09C05
Code: 0310-4-0130
Weight: 7.8 kg



Diameter:

500 mm

R10_-50AP_-ES35B-10B19



COMPLIANT TO
ErP 2015

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	230 V
Frequency	50-60 Hz
Input power	85 W
Input current	0.7 A
Nominal speed	700 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

General notes

Connection diagram: 0302-0-0006	See section Connection diagrams
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Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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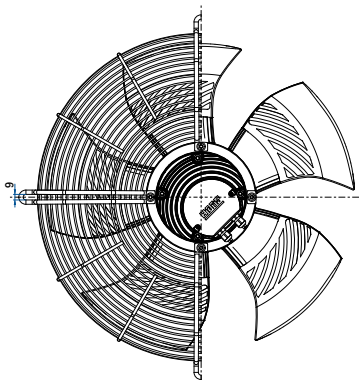
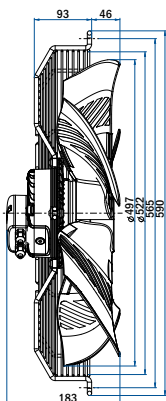
Dimensions and fan ordering information

Airflow direction - sucking

Type: R10R-50APS-ES35B-10B19

Code: 0310-4-0080

Weight: 6.8 kg

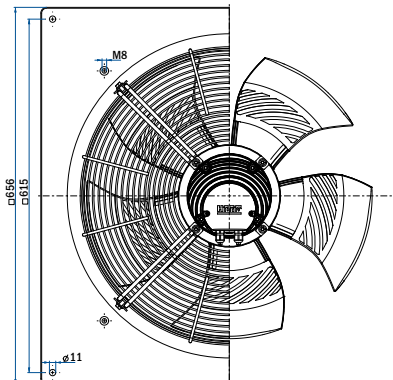
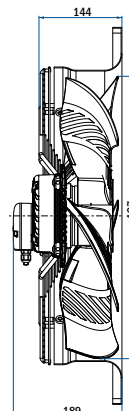


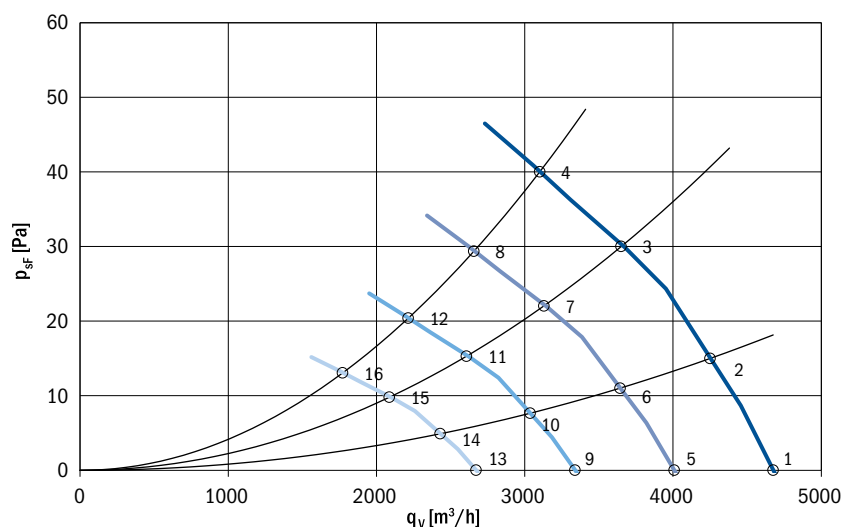
Airflow direction - sucking

Type: R10P-50APS-ES35B-10B19

Code: 0310-4-0081

Weight: 10.9 kg





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

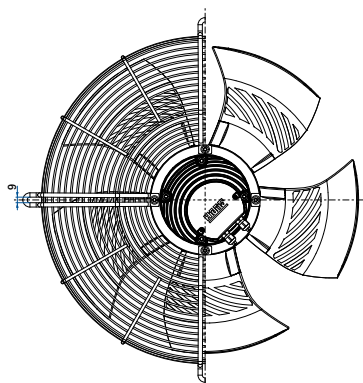
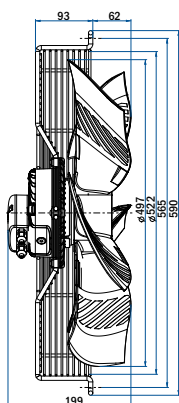
Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³/h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature

	U [V]	f [Hz]	n [RPM]	q_v [m³/h]	p_{sF} [Pa]	P_e [W]	I [A]	L_{WA out} [dB (A)]	T_{a max} [°C]
1	230	50	700	4675	0	67	0.57	58	55
2	230	50	700	4250	15	73	0.61	56	55
3	230	50	700	3650	30	83	0.69	55	55
4	230	50	700	3100	40	89	0.73	55	55
5	230	50	600	4007	0	42	0.36	54	55
6	230	50	600	3643	11	46	0.38	53	55
7	230	50	600	3129	22	52	0.43	53	55
8	230	50	600	2657	29	56	0.46	51	55
9	230	50	500	3339	0	24	0.21	49	55
10	230	50	500	3036	8	27	0.22	47	55
11	230	50	500	2607	15	30	0.25	46	55
12	230	50	500	2214	20	32	0.27	45	55
13	230	50	400	2671	0	13	0.11	45	55
14	230	50	400	2429	5	14	0.11	43	55
15	230	50	400	2086	10	15	0.13	42	55
16	230	50	400	1771	13	17	0.14	41	55

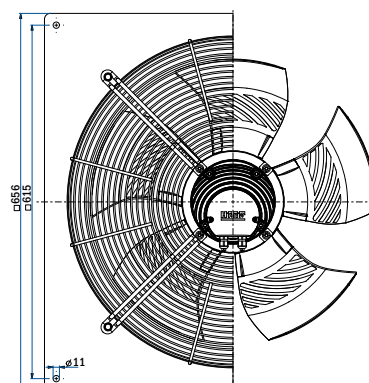
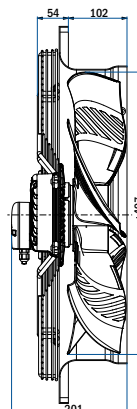
Airflow direction - blowing

Type: R10R-50APB-ES35B-10B19
Code: 0310-4-0082
Weight: 6.9 kg



Airflow direction - blowing

Type: R10P-50APB-ES35B-10B19
Code: 0310-4-0083
Weight: 11.0 kg



Diameter: 500 mm

R10_-50AP_-ES50B-09C17



Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Nominal voltage range	230-240 V
Frequency	50-60 Hz
Input power	300 W
Input current	2.05 A
Nominal speed	1100 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:	
Overall efficiency	45.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	54.3
Variable speed drive	INTEGRATED
Power input	330 W
Air flow	4946 m³/h
Pressure drop	101 Pa
Rotational speed	1095 RPM
Specific ratio	1.00

General notes	
Connection diagram: 0302-0-0006	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

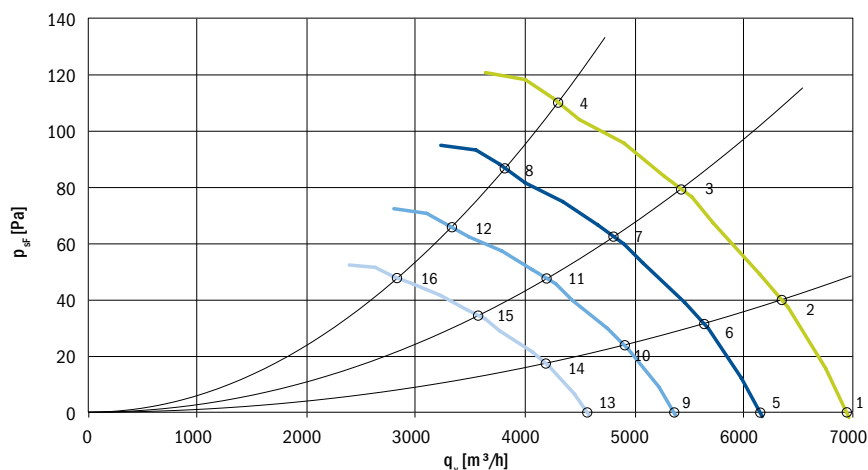
Dimensions and fan ordering information

Airflow direction - sucking

Type: R10R-50APS-ES50B-09C17
Code: 0310-4-0131
Weight: 7.4 kg

Airflow direction - sucking

Type: R10P-50APS-ES50B-09C17
Code: 0310-4-0132
Weight: 11.5 kg



Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

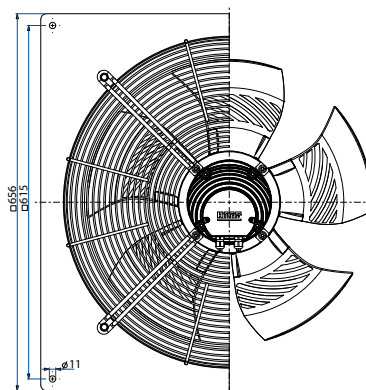
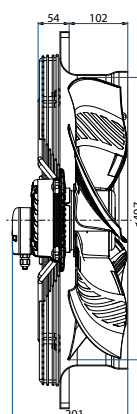
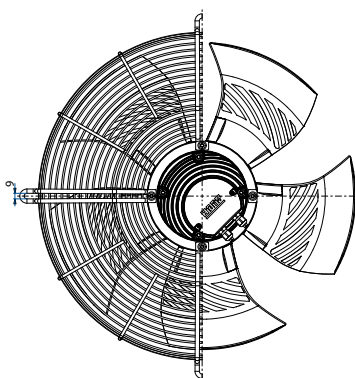
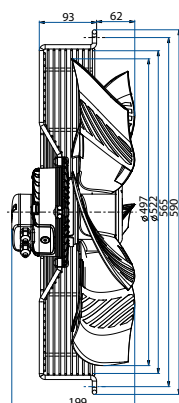
- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{wA} out [dB (A)]	T _a max [°C]
1	230	50	1100	6940	0	236	1.51	70	65
2	230	50	1100	6350	40	280	1.78	68	65
3	230	50	1100	5450	80	306	1.95	65	65
4	230	50	1100	4300	110	323	2.03	66	65
5	230	50	975	6150	0	164	1.08	67	65
6	230	50	975	5630	31	192	1.24	64	65
7	230	50	975	4800	63	230	1.34	62	65
8	230	50	975	3800	86	226	1.45	63	65
9	230	50	850	5350	0	111	0.77	64	65
10	230	50	850	4900	24	127	0.86	61	65
11	230	50	850	4200	48	140	0.95	59	65
12	230	50	850	3350	66	151	1.02	60	65
13	230	50	725	4570	0	70	0.51	60	65
14	230	50	725	4200	17	82	0.58	58	65
15	230	50	725	3550	35	90	0.63	55	65
16	230	50	725	2850	48	96	0.67	57	65

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³/h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature



Diameter:

500 mm



R14_-50AP_-ES40B-17A22

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-277 V
Frequency	50-60 Hz
Input power	650 W
Input current	2.9 A
Nominal speed	1420 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	46.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	53.8
Variable speed drive	INTEGRATED
Power input	0.71 kW
Air flow	6056 m³/h
Pressure drop	188 Pa
Rotational speed	1433 RPM
Specific ratio	1.00

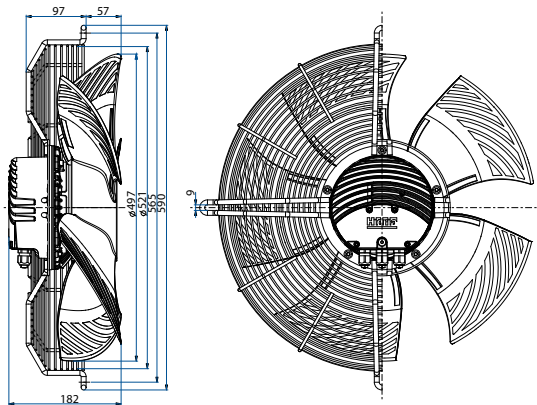
General notes

Connection diagram:	0302-0-1005	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

Dimensions and fan ordering information

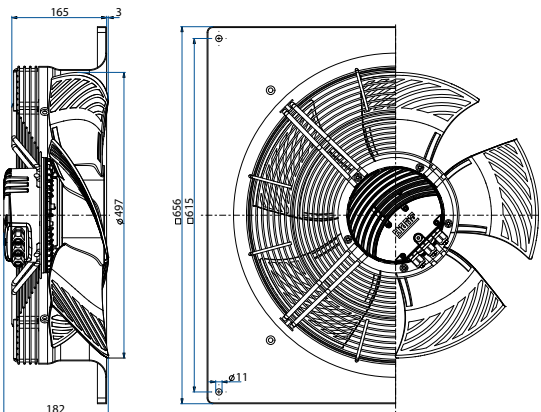
Airflow direction - sucking

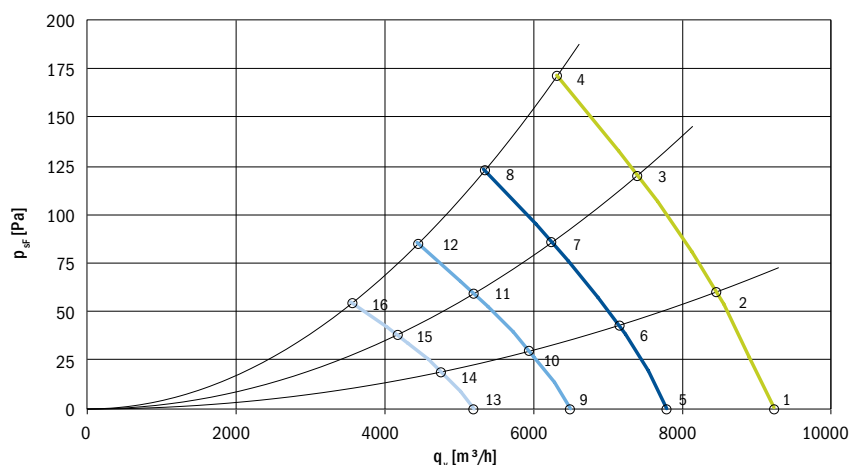
Type: R14R-50APS-ES40B-17A22
Code: 0314-4-0039
Weight: 11.0 kg



Airflow direction - sucking

Type: R14P-50APS-ES40B-17A22
Code: 0314-4-0040
Weight: 15.7 kg





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

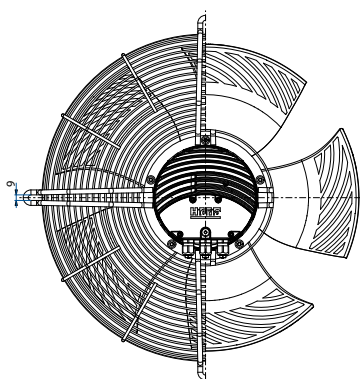
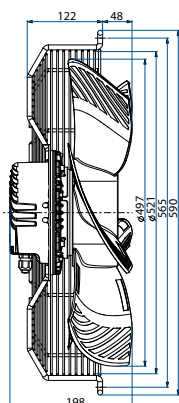
	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{wA} out [dB (A)]	T _a max [°C]
1	230	50	1420	9230	0	538	2.25	78	60
2	230	50	1420	8450	60	602	2.56	77	60
3	230	50	1420	7400	120	675	2.8	72	60
4	230	50	1420	6300	170	735	2.98	72	60
5	230	50	1200	7800	0	310	1.36	74	60
6	230	50	1200	7150	42	345	1.51	73	60
7	230	50	1200	6250	85	385	1.69	68	60
8	230	50	1200	5350	121	410	1.8	68	60
9	230	50	1000	6500	0	180	0.79	70	60
10	230	50	1000	6000	30	198	0.87	69	60
11	230	50	1000	5200	60	222	0.97	64	60
12	230	50	1000	4500	85	238	1.04	64	60
13	230	50	800	5200	0	92	0.4	66	60
14	230	50	800	4750	19	102	0.45	65	60
15	230	50	800	4150	38	115	0.5	60	60
16	230	50	800	3550	54	122	0.53	60	60

Definition of symbols

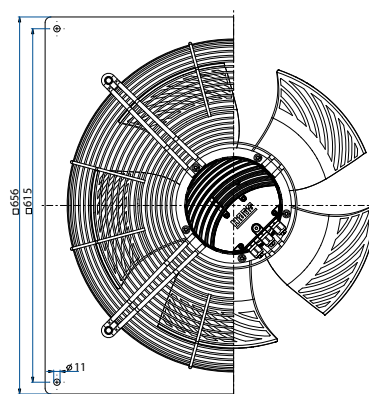
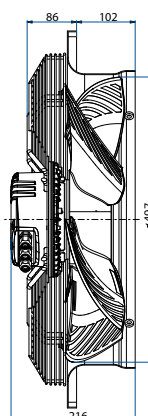
U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³ / h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature



Type: R14R-50APB-ES40B-17A22
Code: 0314-4-0041
Weight: 11.0 kg



Type: R14P-50APB-ES40B-17A22
Code: 0314-4-0042
Weight: 15.7 kg



Diameter:

500 mm



R14_-50AP_-ET60B-13B23

Nominal data according to standard IEC 60034 (max. load):

Phase	3~
Nominal voltage	400 V
Nominal voltage range	380-480 V
Frequency	50-60 Hz
Input power	980 W
Input current	1.6 A
Nominal speed	1600 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	46.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	53.1
Variable speed drive	INTEGRATED
Power input	1.03 kW
Air flow	7018 m³/h
Pressure drop	237 Pa
Rotational speed	1617 RPM
Specific ratio	1.00

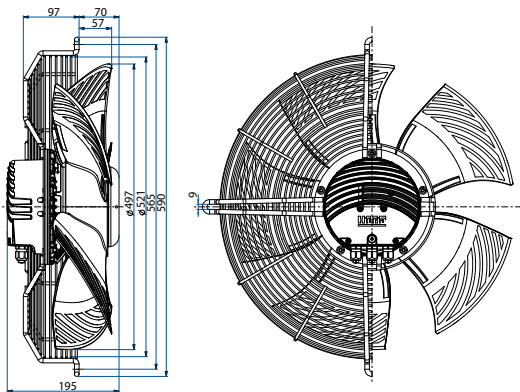
General notes

Connection diagram:	0302-0-1006	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

Dimensions and fan ordering information

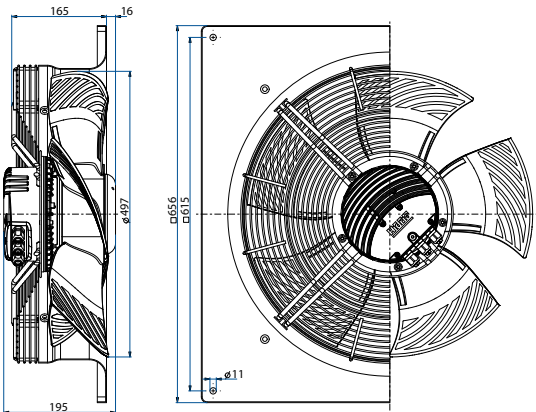
Airflow direction - sucking

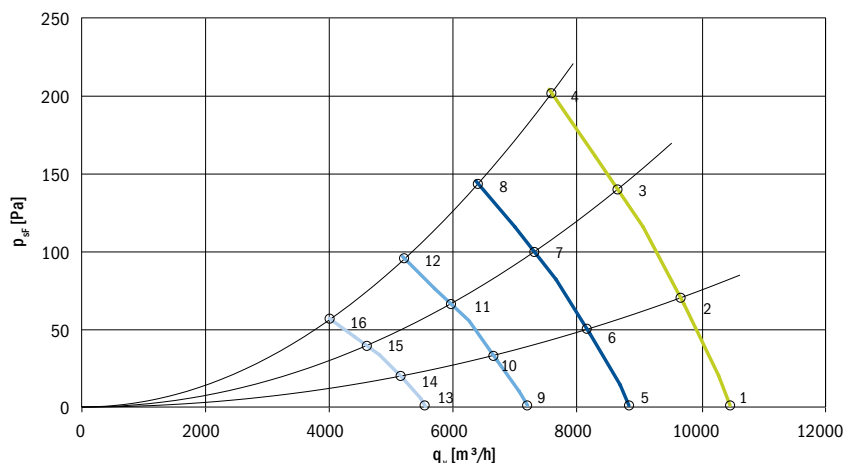
Type: R14R-50APS-ET60B-13B23
Code: 0314-4-0043
Weight: 12.3 kg



Airflow direction - sucking

Type: R14P-50APS-ET60B-13B23
Code: 0314-4-0044
Weight: 17.3 kg





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

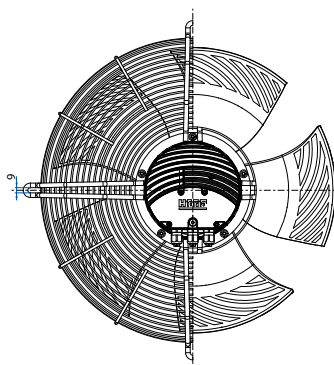
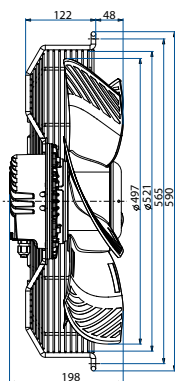
Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³/h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature

	U [V]	f [Hz]	n [RPM]	q_v [m³/h]	p_{sF} [Pa]	P_e [W]	I [A]	L_{WA out} [dB (A)]	T_{a max} [°C]
1	400	50	1600	10460	0	750	1.24	80	60
2	400	50	1600	9650	70	830	1.35	76	60
3	400	50	1600	8650	140	917	1.45	75	60
4	400	50	1600	7550	200	978	4.53	75	60
5	400	50	1350	8830	0	450	0.75	76	60
6	400	50	1350	8150	50	500	0.82	72	60
7	400	50	1350	7300	100	550	0.87	71	60
8	400	50	1350	6400	142	587	0.92	71	60
9	400	50	1100	7200	0	243	0.4	72	60
10	400	50	1100	6600	33	267	0.44	68	60
11	400	50	1100	6000	65	298	0.47	67	60
12	400	50	1100	5200	95	318	0.5	67	60
13	400	50	850	5560	0	112	0.19	66	60
14	400	50	850	5150	20	124	0.2	62	60
15	400	50	850	4600	40	138	0.22	61	60
16	400	50	850	4000	55	147	0.23	61	60

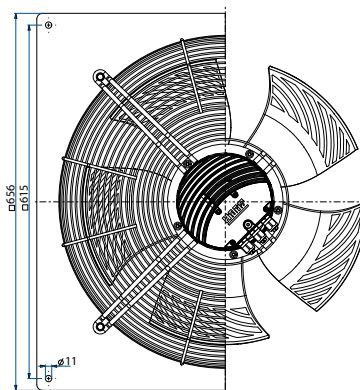
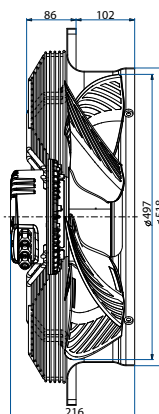
Airflow direction - blowing

Type: R14R-50APB-ET60B-13B23
Code: 0314-4-0045
Weight: 12.6 kg



Airflow direction - blowing

Type: R14P-50APB-ET60B-13B23
Code: 0314-4-0046
Weight: 17.3 kg



Diameter:

560 mm

R10_-56LP_-ES50B-04C10



Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-240 V
Frequency	50-60 Hz
Input power	240 W
Input current	1.68 A
Nominal speed	950 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	45.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	54.9
Variable speed drive	INTEGRATED
Power input	280 W
Air flow	5269 m³/h
Pressure drop	80 Pa
Rotational speed	953 RPM
Specific ratio	1.00

General notes

Connection diagram: 0302-0-0006	See section Connection diagrams
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Guard grills & wall-plates	See section Accessories
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Standards compliance	See introduction page
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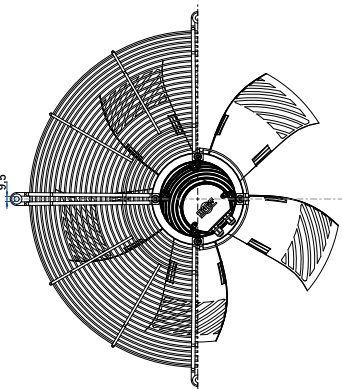
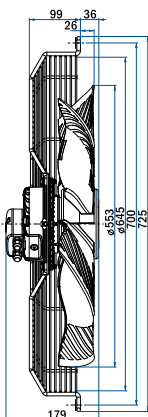
Dimensions and fan ordering information

Airflow direction - sucking

Type: R10R-56LPS-ES50B-04C10

Code: 0310-4-0135

Weight: 6.0 kg

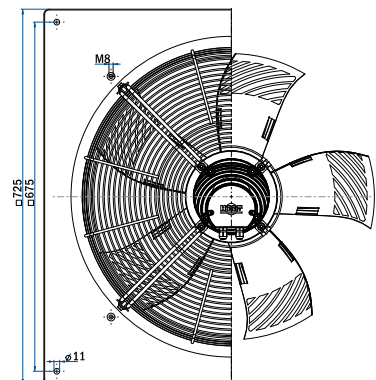
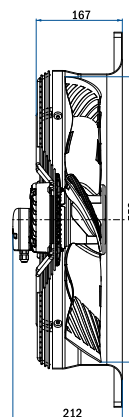


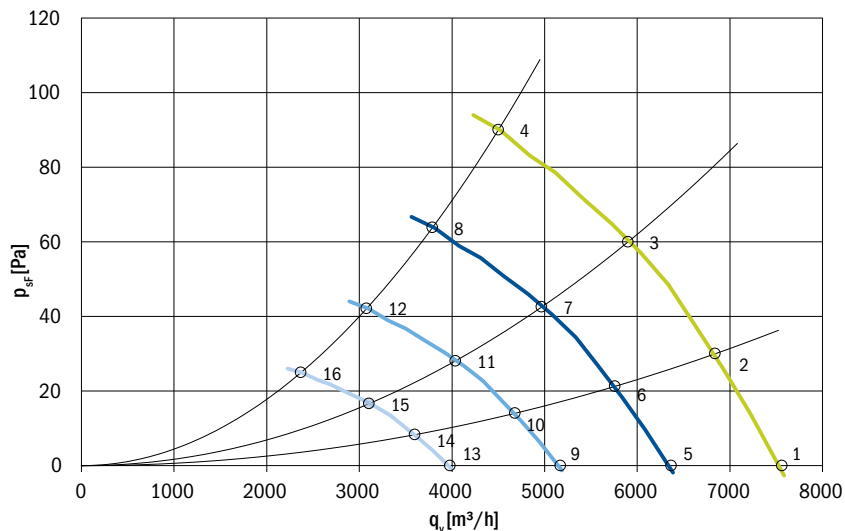
Airflow direction - sucking

Type: R10P-56LPS-ES50B-04C10

Code: 0310-4-0136

Weight: 13.7 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sf} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	950	7560	0	188	1.28	70	65
2	230	50	950	6840	30	219	1.48	69	65
3	230	50	950	5900	60	251	1.68	66	65
4	230	50	950	4500	90	272	1.82	66	65
5	230	50	800	6366	0	113	0.80	66	65
6	230	50	800	5760	21	134	0.93	65	65
7	230	50	800	4968	43	151	1.04	62	65
8	230	50	800	3789	64	162	1.11	62	65
9	230	50	650	5173	0	62	0.47	61	65
10	230	50	650	4680	14	74	0.54	60	65
11	230	50	650	4037	28	82	0.60	57	65
12	230	50	650	3079	42	88	0.64	56	65
13	230	50	500	3979	0	31	0.26	54	65
14	230	50	500	3600	8	36	0.29	53	65
15	230	50	500	3105	17	41	0.32	51	65
16	230	50	500	2368	25	44	0.35	49	65

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

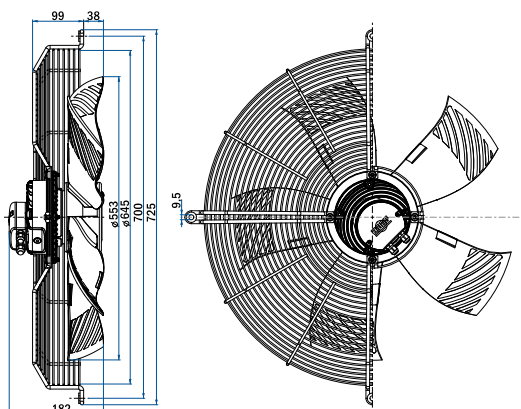
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sf} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature

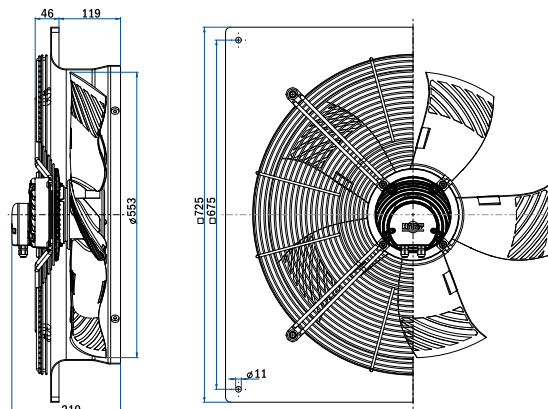
Airflow direction - blowing

Type: R10R-56LPB-ES50B-04C10
Code: 0310-4-0137
Weight: 6.0 kg



Airflow direction - blowing

Type: R10P-56LPB-ES50B-04C10
Code: 0310-4-0138
Weight: 13.7 kg



Diameter:

560 mm



R14_-56AP_-ES60B-13A18

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-277 V
Frequency	50-60 Hz
Input power	600 W
Input current	2.6 A
Nominal speed	1150 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	49.7 %
Measurement category	A
Efficiency category	static
Efficiency grade N	57.3
Variable speed drive	INTEGRATED
Power input	0.63 kW
Air flow	6789 m³/h
Pressure drop	156 Pa
Rotational speed	1161 RPM
Specific ratio	1.00

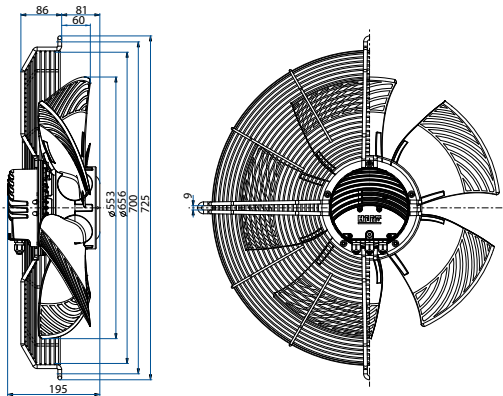
General notes

Connection diagram:	0302-0-1005	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

Dimensions and fan ordering information

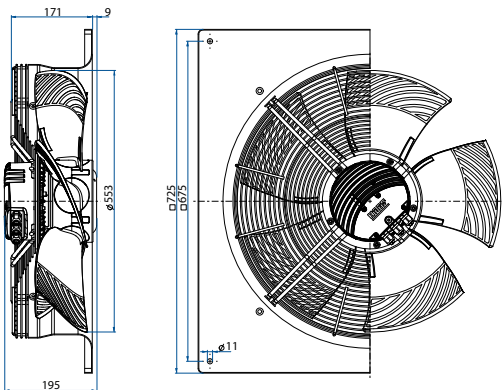
Airflow direction - sucking

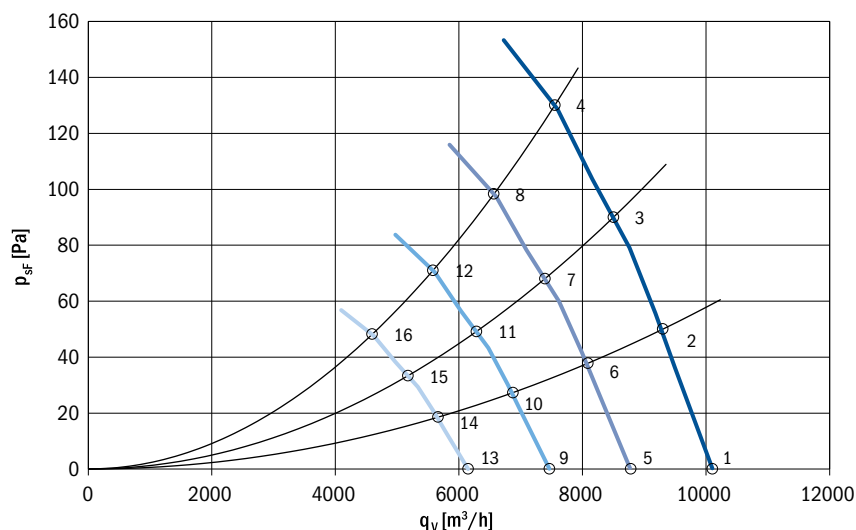
Type: R14R-56APS-ES60B-13A18
Code: 0314-4-0055
Weight: 13.6 kg



Airflow direction - sucking

Type: R14P-56APS-ES60B-13A18
Code: 0314-4-0056
Weight: 19.3 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	1150	10100	0	463	1.99	73	60
2	230	50	1150	9300	50	523	2.28	72	60
3	230	50	1150	8500	90	574	2.50	71	60
4	230	50	1150	7550	130	607	2.65	74	60
5	230	50	1000	8783	0	304	1.31	70	60
6	230	50	1000	8087	38	344	1.50	69	60
7	230	50	1000	7391	68	377	1.64	68	60
8	230	50	1000	6565	98	399	1.74	71	60
9	230	50	850	7465	0	187	0.80	66	60
10	230	50	850	6874	27	211	0.92	65	60
11	230	50	850	6283	49	232	1.01	64	60
12	230	50	850	5580	71	245	1.07	67	60
13	230	50	700	6148	0	104	0.45	62	60
14	230	50	700	5661	19	118	0.51	61	60
15	230	50	700	5174	33	129	0.56	60	60
16	230	50	700	4596	48	137	0.60	63	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

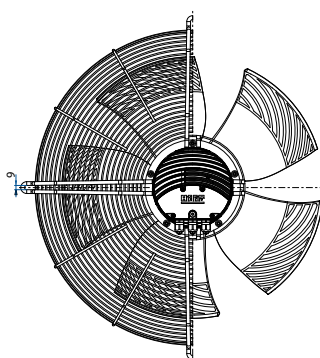
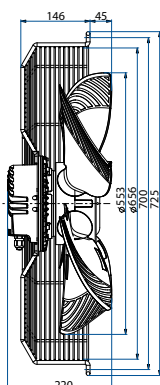
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature

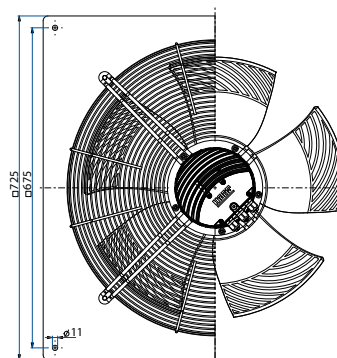
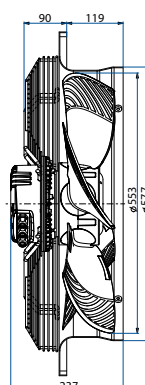
Airflow direction - blowing

Type: R14R-56APB-ES60B-13A18
Code: 0314-4-0057
Weight: 13.8 kg



Airflow direction - blowing

Type: R14P-56APB-ES60B-13A18
Code: 0314-4-0058
Weight: 19.3 kg



Diameter:

560 mm



R14_-56AP_-ET60B-03B18

Nominal data according to standard IEC 60034 (max. load):

Phase	3~
Nominal voltage	400 V
Nominal voltage range	380-460 V
Frequency	50-60 Hz
Input power	600 W
Input current	1.1 A
Nominal speed	1150 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	50.2 %
Measurement category	A
Efficiency category	static
Efficiency grade N	57.8
Variable speed drive	INTEGRATED
Power input	630 W
Air flow	6608 m ³ /h
Pressure drop	160 Pa
Rotational speed	1157 RPM
Specific ratio	1.00

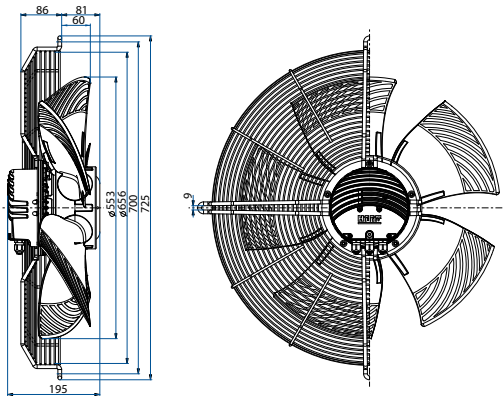
General notes

Connection diagram:	0302-0-1006	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

Dimensions and fan ordering information

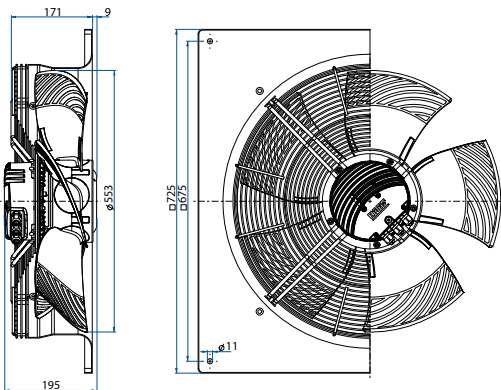
Airflow direction - sucking

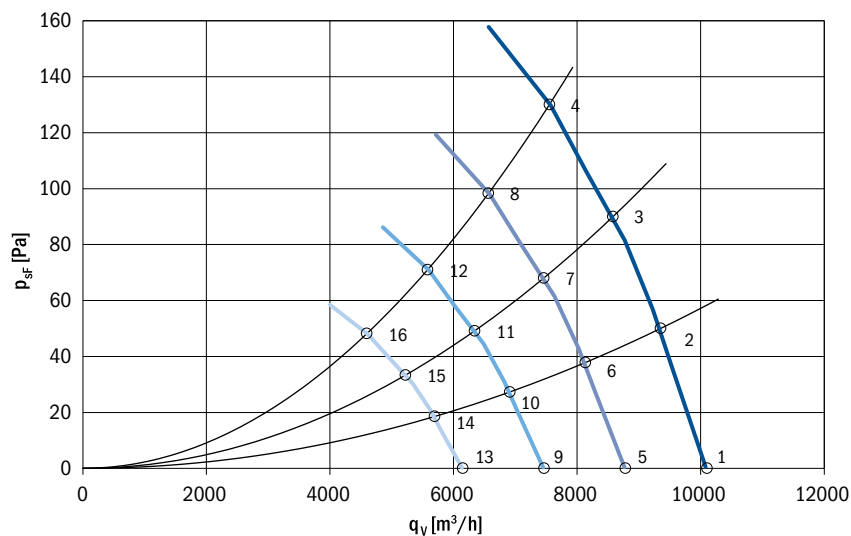
Type: R14R-56APS-ET60B-03B18
Code: 0314-4-0089
Weight: 13.4 kg



Airflow direction - sucking

Type: R14P-56APS-ET60B-03B18
Code: 0314-4-0090
Weight: 19.3 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	400	50	1150	10100	0	465	0.89	73	60
2	400	50	1150	9350	50	520	0.99	72	60
3	400	50	1150	8580	90	570	1.09	71	60
4	400	50	1150	7550	130	610	1.13	74	60
5	400	50	1000	8783	0	306	0.59	70	60
6	400	50	1000	8130	38	342	0.65	69	60
7	400	50	1000	7461	68	375	0.72	68	60
8	400	50	1000	6565	98	401	0.74	71	60
9	400	50	850	7465	0	188	0.36	66	60
10	400	50	850	6911	27	210	0.40	65	60
11	400	50	850	6342	49	230	0.44	64	60
12	400	50	850	5580	71	246	0.46	67	60
13	400	50	700	6148	0	105	0.20	62	60
14	400	50	700	5691	19	117	0.22	61	60
15	400	50	700	5223	33	129	0.25	60	60
16	400	50	700	4596	48	138	0.25	63	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

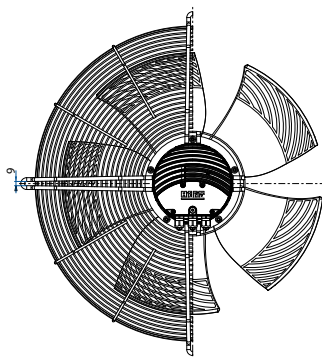
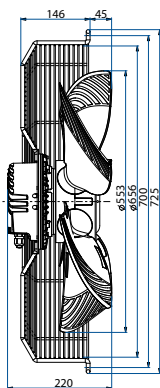
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _{a max} [°C]	Max. ambient temperature

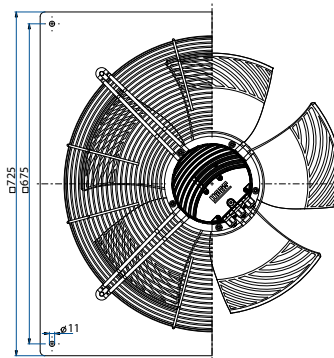
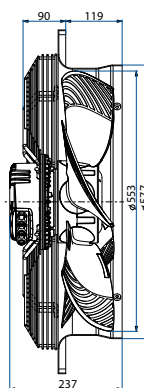
Airflow direction - blowing

Type: R14R-56APB-ET60B-03B18
Code: 0314-4-0091
Weight: 13.6 kg



Airflow direction - blowing

Type: R14P-56APB-ET60B-03B18
Code: 0314-4-0092
Weight: 15.9 kg



Diameter:

630 mm



R10_-63LP_-ES50B-03C11

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Nominal voltage range	230-240 V
Frequency	50-60 Hz
Input power	250 W
Input current	1.65 A
Nominal speed	770 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

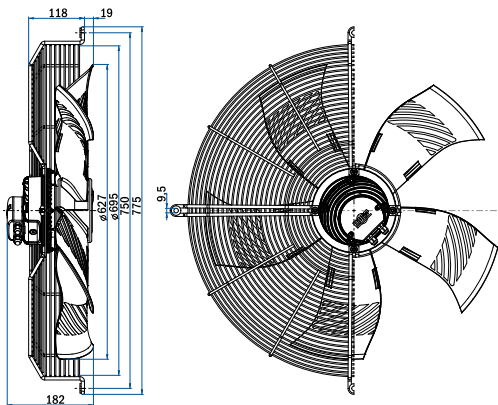
ErP data according to EU regulation 327/2011:	
Overall efficiency	40.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	50.3
Variable speed drive	INTEGRATED
Power input	270 W
Air flow	5787 m³/h
Pressure drop	62 Pa
Rotational speed	760 RPM
Specific ratio	1.00

General notes	
Connection diagram: 0302-0-0006	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

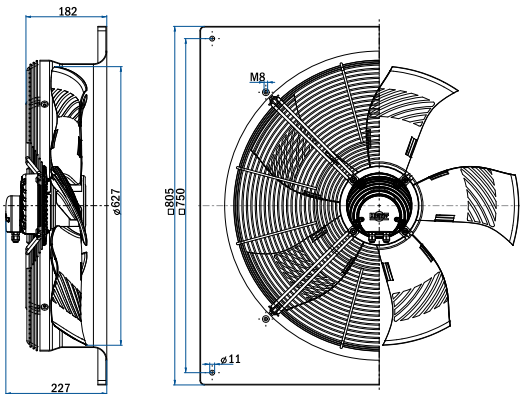
Dimensions and fan ordering information

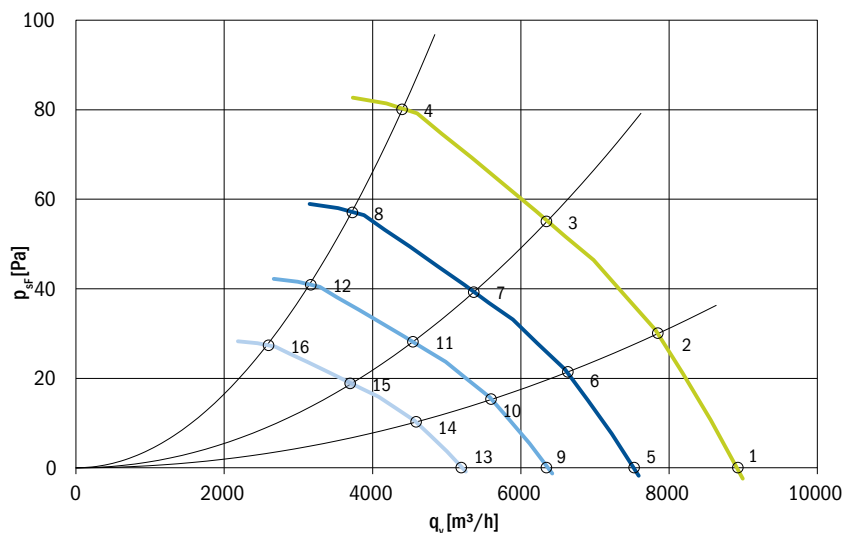


Type: R10R-63LPS-ES50B-03C11
Code: 0310-4-0139
Weight: 6.4 kg



Type: R10P-63LPS-ES50B-03C11
Code: 0310-4-0140
Weight: 15.2 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	230	50	770	8930	0	201	1.36	67	60
2	230	50	770	7850	30	240	1.61	65	60
3	230	50	770	6350	55	266	1.78	64	60
4	230	50	770	4400	80	274	1.82	71	60
5	230	50	650	7530	0	115	0.81	62	60
6	230	50	650	6640	21	136	0.95	60	60
7	230	50	650	5370	39	155	1.06	60	60
8	230	50	650	3730	57	146	1.02	67	60
9	230	50	550	6350	0	71	0.53	57	60
10	230	50	550	5600	15	82	0.60	56	60
11	230	50	550	4550	28	94	0.68	56	60
12	230	50	550	3170	41	89	0.65	62	60
13	230	50	450	5200	0	40	0.31	51	60
14	230	50	450	4590	10	46	0.35	51	60
15	230	50	450	3700	19	52	0.40	51	60
16	230	50	450	2600	27	50	0.39	57	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

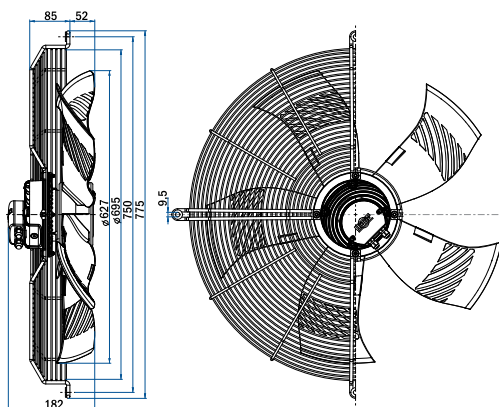
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature

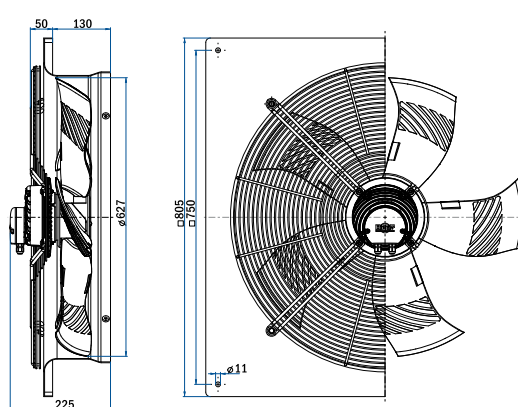
Airflow direction - blowing

Type: R10R-63LPB-ES50B-03C11
Code: 0310-4-0141
Weight: 6.4 kg



Airflow direction - blowing

Type: R10P-63LPB-ES50B-03C11
Code: 0310-4-0142
Weight: 15.2 kg



Diameter:

630 mm

R14_-63AP_-ES60B-01A04



Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-277 V
Frequency	50-60 Hz
Input power	620 W
Input current	2.7 A
Nominal speed	1000 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	50.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	57.9
Variable speed drive	INTEGRATED
Power input	0.67 kW
Air flow	8955 m³/h
Pressure drop	128 Pa
Rotational speed	1008 RPM
Specific ratio	1.00

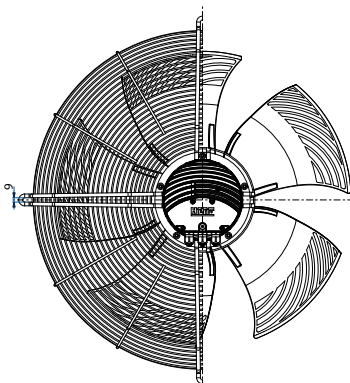
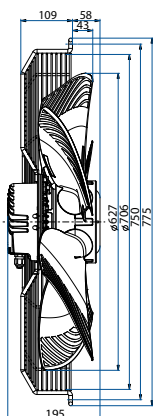
General notes

Connection diagram: 0302-0-1005	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

Dimensions and fan ordering information

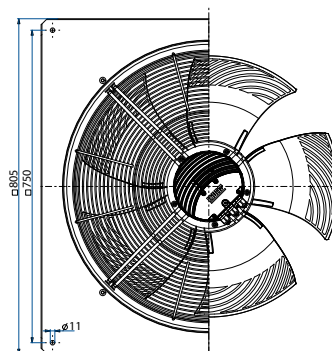
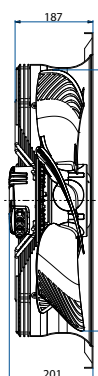
Airflow direction - sucking

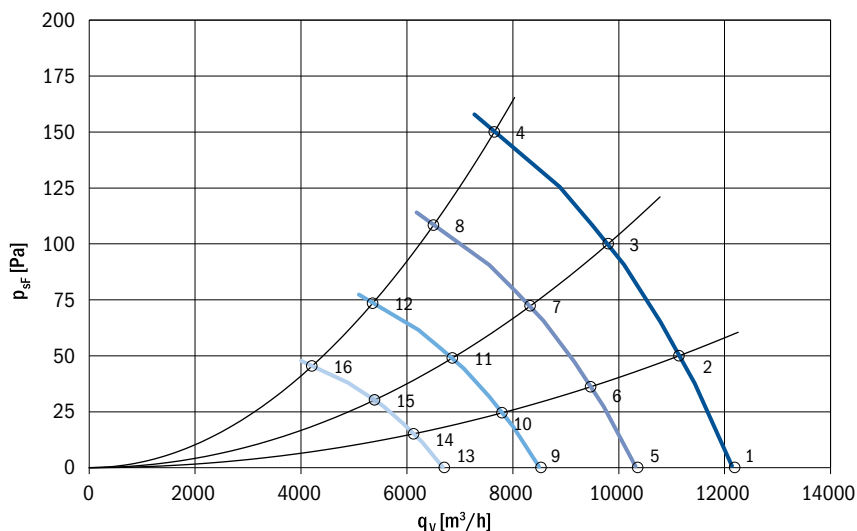
Type: R14R-63APS-ES60B-01A04
Code: 0314-4-0047
Weight: 14.4 kg



Airflow direction - sucking

Type: R14P-63APS-ES60B-01A04
Code: 0314-4-0048
Weight: 23.1 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	230	50	1000	12190	0	480	2.07	71	60
2	230	50	1000	11140	50	571	2.47	68	60
3	230	50	1000	9800	100	640	2.76	69	60
4	230	50	1000	7650	150	713	3.07	70	60
5	230	50	850	10362	0	295	1.27	68	60
6	230	50	850	9469	36	351	1.52	65	60
7	230	50	850	8330	72	393	1.69	66	60
8	230	50	850	6503	108	438	1.89	67	60
9	230	50	700	8533	0	165	0.71	64	60
10	230	50	700	7798	25	196	0.85	61	60
11	230	50	700	6860	49	220	0.95	62	60
12	230	50	700	5355	74	245	1.05	63	60
13	230	50	550	6705	0	80	0.34	58	60
14	230	50	550	6127	15	95	0.41	55	60
15	230	50	550	5390	30	106	0.46	56	60
16	230	50	550	4208	45	119	0.51	57	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

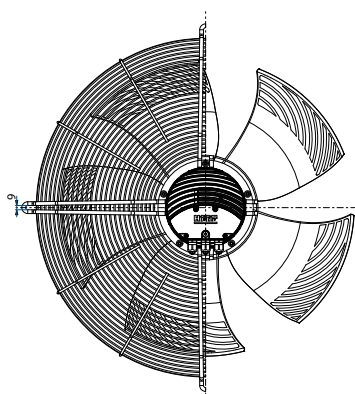
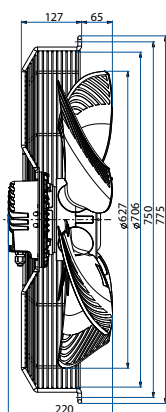
The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _{a max} [°C]	Max. ambient temperature

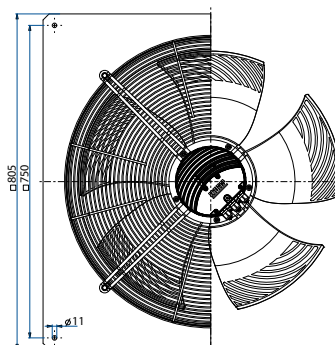
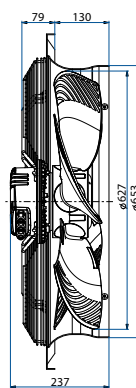
Airflow direction - blowing

Type: R14R-63APB-ES60B-01A04
Code: 0314-4-0049
Weight: 14.4 kg



Airflow direction - blowing

Type: R14P-63APB-ES60B-01A04
Code: 0314-4-0050
Weight: 23.1 kg



Diameter:

630 mm

R14_-63AP_-ET80B-14B17



Nominal data according to standard IEC 60034 (max. load):

Phase	3~
Nominal voltage	400 V
Nominal voltage range	380-480 V
Frequency	50-60 Hz
Input power	900 W
Input current	1.57 A
Nominal speed	1100 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	52.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	53.1
Variable speed drive	INTEGRATED
Power input	0.88 kW
Air flow	9846 m³/h
Pressure drop	160 Pa
Rotational speed	1112 RPM
Specific ratio	1.00

General notes

Connection diagram: 0302-0-1006	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

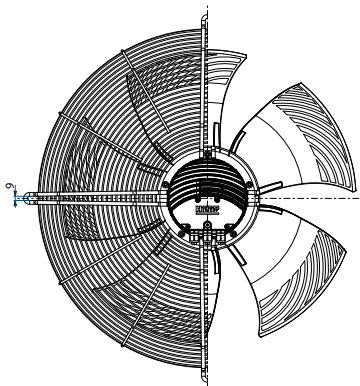
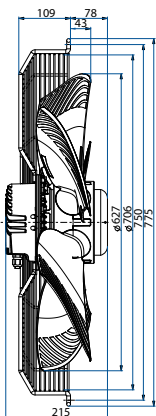
Dimensions and fan ordering information



Type: R14R-63APS-ET80B-14B17

Code: 0314-4-0051

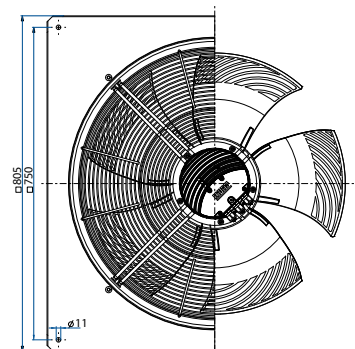
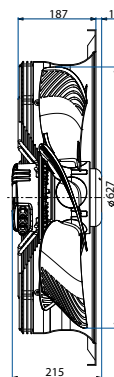
Weight: 16.1 kg

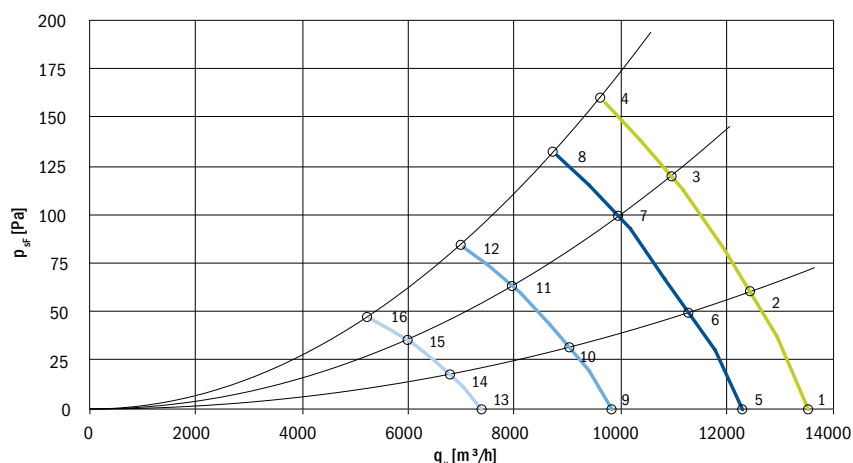


Type: R14P-63APS-ET80B-14B17

Code: 0314-4-0052

Weight: 24.4 kg





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

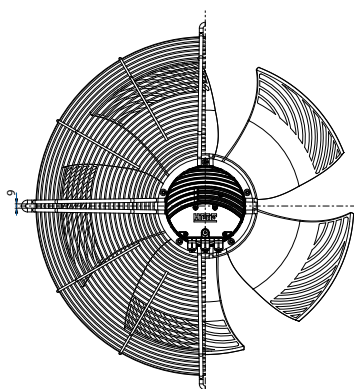
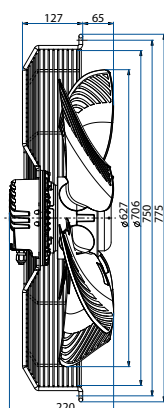
	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sF} [Pa]	P _e [W]	I [A]	L _{WA} out [dB (A)]	T _a max [°C]
1	400	50	1110	13530	0	640	1.37	74	60
2	400	50	1110	12400	60	730	1.53	71	60
3	400	50	1110	10950	120	838	1.75	72	60
4	400	50	1110	9600	160	900	1.88	73	60
5	400	50	1000	12300	0	482	1.03	72	60
6	400	50	1000	11300	50	545	1.15	69	60
7	400	50	1000	9950	100	630	1.31	70	60
8	400	50	1000	8800	130	677	1.42	71	60
9	400	50	800	9840	0	247	0.53	67	60
10	400	50	800	9030	32	280	0.59	64	60
11	400	50	800	8000	63	322	0.67	65	60
12	400	50	800	7020	83	345	0.73	66	60
13	400	50	600	7380	0	104	0.22	61	60
14	400	50	600	6800	17	118	0.25	58	60
15	400	50	600	6000	35	135	0.28	59	60
16	400	50	600	5280	48	145	0.30	60	60

Definition of symbols

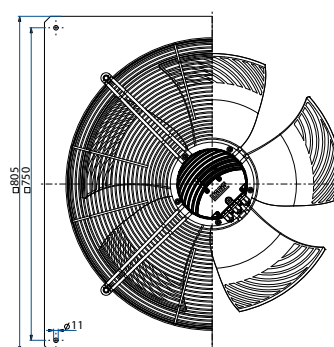
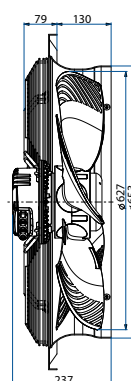
U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³ / h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature



Type: R14R-63APB-ET80B-14B17
Code: 0314-4-0053
Weight: 16.4 kg



Type: R14P-63APB-ET80B-14B17
Code: 0314-4-0054
Weight: 24.6 kg



Diameter:

710 mm

R14_-71AP_-ES80B-05A02



Nominal data according to standard IEC 60034 (max. load):	
Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-277 V
Frequency	50-60 Hz
Input power	400 W
Input current	1.7 A
Nominal speed	700 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

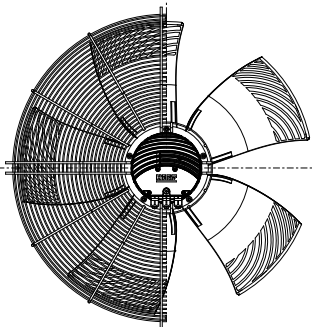
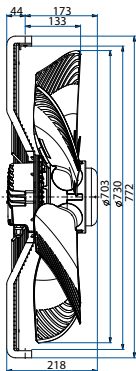
ErP data according to EU regulation 327/2011:	
Overall efficiency	51.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	59.8
Variable speed drive	INTEGRATED
Power input	0.42 kW
Air flow	9324 m³/h
Pressure drop	77 Pa
Rotational speed	717 RPM
Specific ratio	1.00

General notes	
Connection diagram: 0302-0-1005	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

Dimensions and fan ordering information

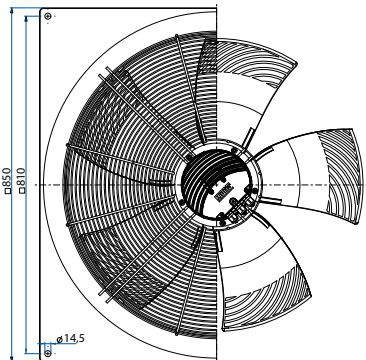
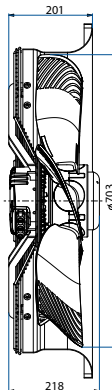
Airflow direction - sucking

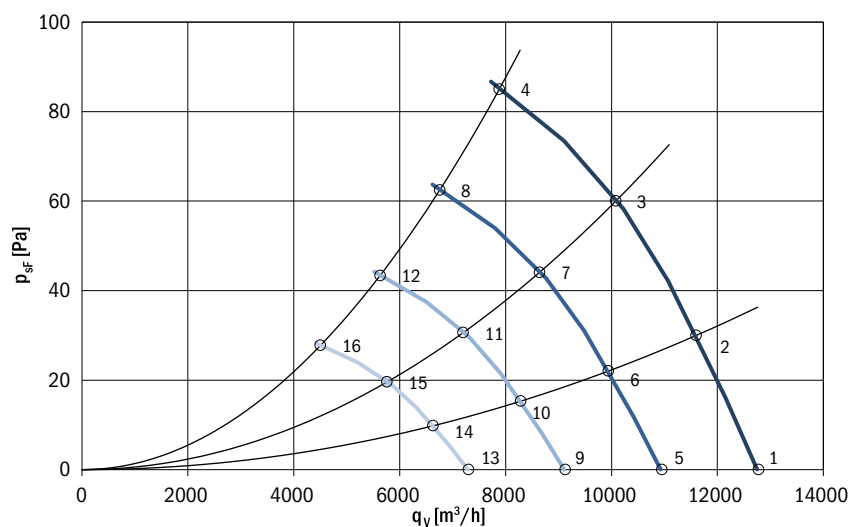
Type: R14R-71APS-ES80B-05A02
Code: 0314-4-0059
Weight: 16.4 kg



Airflow direction - sucking

Type: R14P-71APS-ES80B-05A02
Code: 0314-4-0060
Weight: 27.4 kg





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³/h]	Air flow
p_{sf} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature

	U [V]	f [Hz]	n [RPM]	q_v [m³/h]	p_{sf} [Pa]	P_e [W]	I [A]	L_{WA out} [dB (A)]	T_{a max} [°C]
1	230	50	700	12780	0	300	1.30	70	60
2	230	50	700	11600	30	364	1.57	66	60
3	230	50	700	10080	60	405	1.73	65	60
4	230	50	700	7880	85	435	1.87	68	60
5	230	50	600	10954	0	189	0.82	68	60
6	230	50	600	9943	22	229	0.99	63	60
7	230	50	600	8640	44	255	1.09	62	60
8	230	50	600	6754	62	274	1.18	65	60
9	230	50	500	9129	0	109	0.47	63	60
10	230	50	500	8286	15	133	0.57	59	60
11	230	50	500	7200	31	148	0.63	58	60
12	230	50	500	5629	43	159	0.68	61	60
13	230	50	400	7303	0	56	0.24	57	60
14	230	50	400	6629	10	68	0.29	53	60
15	230	50	400	5760	20	76	0.32	52	60
16	230	50	400	4503	28	81	0.35	55	60

Airflow direction - blowing

Type: R14R-71APB-ES80B-05A02
Code: On request
Weight:

Airflow direction - blowing

Type: R14P-71APB-ES80B-05A02
Code: On request
Weight:

Diameter:

710 mm

R14_-71AP_-ET80B-07B07



Nominal data according to standard IEC 60034 (max. load):	
Phase	3~
Nominal voltage	400 V
Nominal voltage range	380-480 V
Frequency	50-60 Hz
Input power	800 W
Input current	1.38 A
Nominal speed	900 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:	
Overall efficiency	49.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	56.7
Variable speed drive	INTEGRATED
Power input	0.86 kW
Air flow	11099 m³/h
Pressure drop	133 Pa
Rotational speed	907 RPM
Specific ratio	1.00

General notes	
Connection diagram: 0302-0-1006	See section Connection diagrams
Guard grills & wall-plates	See section Accessories
Standards compliance	See introduction page

Dimensions and fan ordering information

Airflow direction - sucking

Type: R14R-71APS-ET80B-07B07

Code: 0314-4-0061

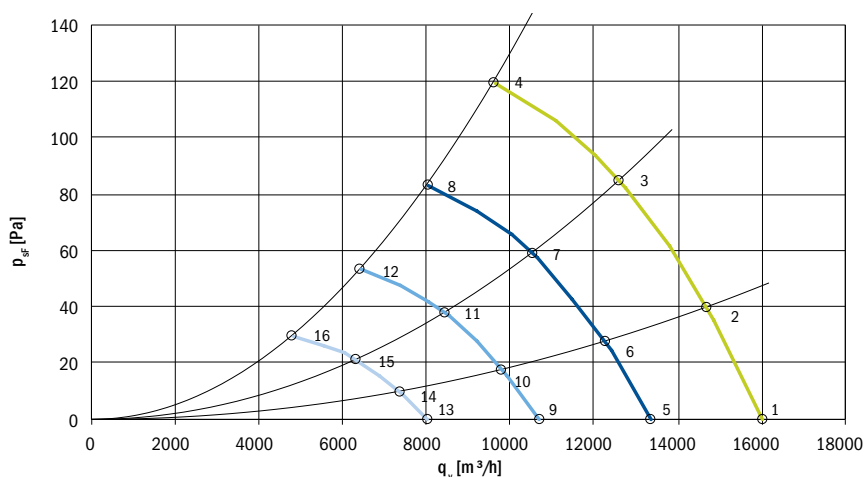
Weight: 16.6 kg

Airflow direction - sucking

Type: R14P-71APS-ET80B-07B07

Code: 0314-4-0062

Weight: 27.4 kg



Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³/h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature

	U [V]	f [Hz]	n [RPM]	q_v [m³/h]	p_{sF} [Pa]	P_e [W]	I [A]	L_{WA out} [dB (A)]	T_{a max} [°C]
1	400	50	900	16000	0	580	1.00	70	50
2	400	50	900	14700	40	669	1.12	69	50
3	400	50	900	12600	85	768	1.26	70	50
4	400	50	900	9600	120	881	1.45	74	50
5	400	50	750	13350	0	336	0.57	66	50
6	400	50	750	12250	27	386	0.64	65	50
7	400	50	750	10500	59	444	0.70	66	50
8	400	50	750	8000	83	510	0.79	70	50
9	400	50	600	10700	0	172	0.29	61	50
10	400	50	600	9850	17	197	0.33	60	50
11	400	50	600	8400	38	228	0.37	61	50
12	400	50	600	6450	53	261	0.40	65	50
13	400	50	450	8000	0	72	0.12	55	50
14	400	50	450	7350	10	84	0.13	54	50
15	400	50	450	6350	21	95	0.15	55	50
16	400	50	450	4800	30	110	0.17	59	50

Airflow direction - blowing

Type: R14R-71APB-ET80B-07B07
Code: On request
Weight:

Airflow direction - blowing

Type: R14P-71APB-ET80B-07B07
Code: On request
Weight:

Diameter:

800 mm



R14_-80AP_-ES80B-14A01

Nominal data according to standard IEC 60034 (max. load):

Phase	1~
Nominal voltage	230 V
Nominal voltage range	200-277 V
Frequency	50-60 Hz
Input power	660 W
Input current	2.8 A
Nominal speed	710 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	49.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	56.3
Variable speed drive	INTEGRATED
Power input	0.71 kW
Air flow	11798 m³/h
Pressure drop	101 Pa
Rotational speed	716 RPM
Specific ratio	1.00

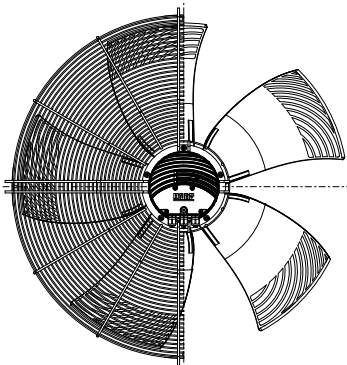
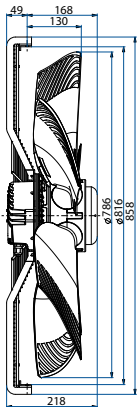
General notes

Connection diagram:	0302-0-1005	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

Dimensions and fan ordering information

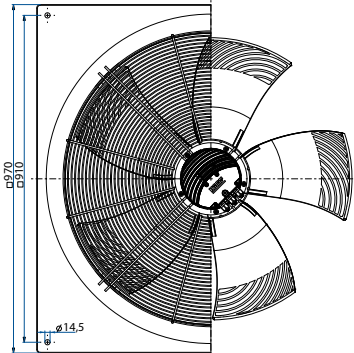
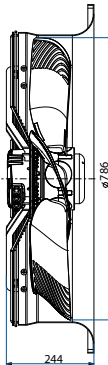
Airflow direction - sucking

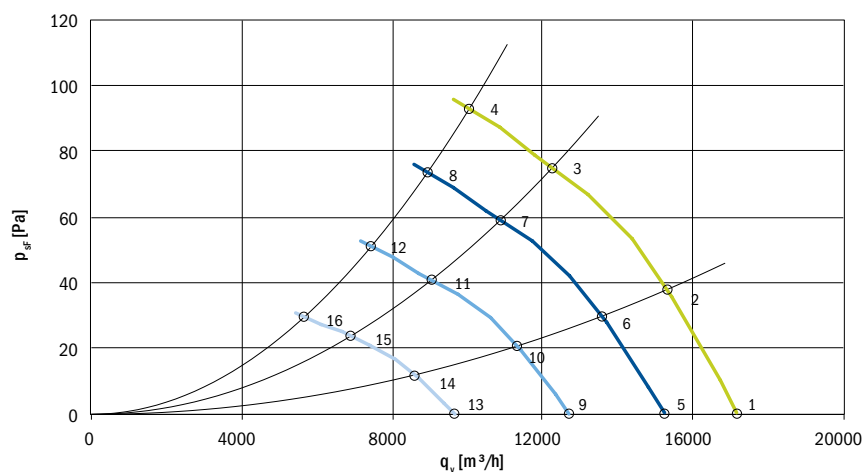
Type: R14R-80APS-ES80B-14A01
Code: 0314-4-0063
Weight: 17.2 kg



Airflow direction - sucking

Type: R14P-80APS-ES80B-14A01
Code: 0314-4-0064
Weight: 32.7 kg





Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q_v [m³/h]	Air flow
p_{sF} [Pa]	Pressure drop
P_e [W]	Power input
I [A]	Current
L_{WA} [dB (A)]	Sound power level A weighted
T_{a max} [°C]	Max. ambient temperature

	U [V]	f [Hz]	n [RPM]	q_v [m³/h]	p_{sF} [Pa]	P_e [W]	I [A]	L_{WA out} [dB (A)]	T_{a max} [°C]
1	230	50	710	17200	0	455	2.03	69	50
2	230	50	710	15300	38	555	2.48	64	50
3	230	50	710	12250	75	665	3.04	63	50
4	230	50	710	10050	93	720	3.35	68	50
5	230	50	630	15250	0	315	1.42	66	50
6	230	50	630	13550	30	390	1.72	61	50
7	230	50	630	10850	59	465	2.12	60	50
8	230	50	630	8950	73	505	2.36	65	50
9	230	50	525	12700	0	185	0.82	62	50
10	230	50	525	11350	20	225	1.00	57	50
11	230	50	525	9100	40	265	1.21	56	50
12	230	50	525	7400	51	292	1.36	61	50
13	230	50	400	9700	0	81	0.37	57	50
14	230	50	400	8700	11	97	0.43	52	50
15	230	50	400	7000	23	117	0.55	51	50
16	230	50	400	5700	29	128	0.62	56	50

Airflow direction - blowing

Type: R14R-80APB-ES80B-14A01
Code: On request
Weight:

Airflow direction - blowing

Type: R14P-80APS-ES80B-14A01
Code: On request
Weight:

Diameter:

800 mm



R14_-80AP_-ET80B-07B03

Nominal data according to standard IEC 60034 (max. load):

Phase	3~
Nominal voltage	400 V
Nominal voltage range	380-480 V
Frequency	50-60 Hz
Input power	660 W
Input current	1.15 A
Nominal speed	720 RPM
Min. ambient temperature	-25 °C
Protection class	IP54
Insulation class	130

ErP data according to EU regulation 327/2011:

Overall efficiency	49.3 %
Measurement category	A
Efficiency category	static
Efficiency grade N	56.6
Variable speed drive	INTEGRATED
Power input	0.71 kW
Air flow	11806 m³/h
Pressure drop	101 Pa
Rotational speed	720 RPM
Specific ratio	1.00

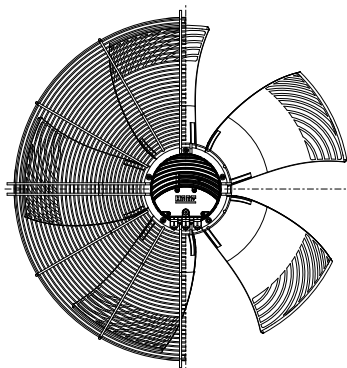
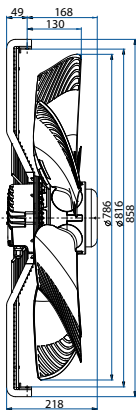
General notes

Connection diagram:	0302-0-1006	See section Connection diagrams
Guard grills & wall-plates		See section Accessories
Standards compliance		See introduction page

Dimensions and fan ordering information

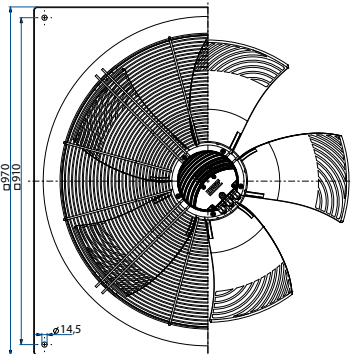
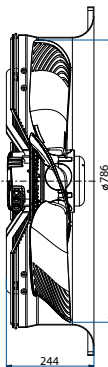
Airflow direction - sucking

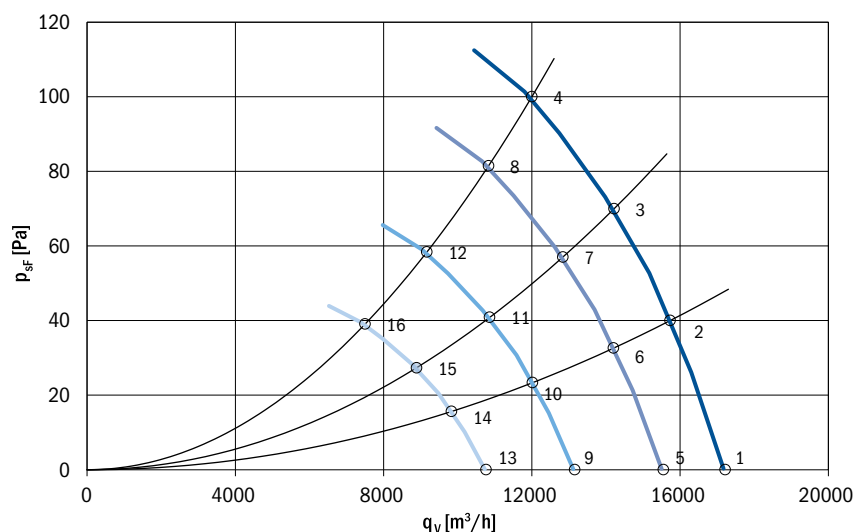
Type: R14R-80APS-ET80B-07B03
Code: 0314-4-0065
Weight: 17.2 kg



Airflow direction - sucking

Type: R14P-80APS-ET80B-07B03
Code: 0314-4-0066
Weight: 32.2 kg





	U [V]	f [Hz]	n [RPM]	q _v [m³/h]	p _{sf} [Pa]	P _e [W]	I [A]	L _{WA out} [dB (A)]	T _{a max} [°C]
1	400	50	720	17220	0	470	0.87	70	60
2	400	50	720	15730	40	571	1.02	66	60
3	400	50	720	14220	70	648	1.07	65	60
4	400	50	720	12000	100	705	1.23	68	60
5	400	50	650	15546	0	346	0.64	68	60
6	400	50	650	14201	33	420	0.75	63	60
7	400	50	650	12838	57	477	0.79	62	60
8	400	50	650	10833	82	519	0.90	65	60
9	400	50	550	13154	0	210	0.39	63	60
10	400	50	550	12016	23	255	0.45	59	60
11	400	50	550	10863	41	289	0.48	58	60
12	400	50	550	9167	58	314	0.55	61	60
13	400	50	450	10763	0	115	0.21	57	60
14	400	50	450	9831	16	139	0.25	53	60
15	400	50	450	8888	27	158	0.26	52	60
16	400	50	450	7500	39	172	0.30	55	60

Aerodynamic characteristic:

- measured in full bell mouth without guard grill
- installation category A according to ISO 5801

Sound power level:

- measured on pressure side
- fan mounted in full bell mouth without guard grill
- measured according to ISO 3741; installation type A

The values given may vary according to actual installation in the unit.

Definition of symbols

U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sf} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _{a max} [°C]	Max. ambient temperature

Airflow direction - blowing

Type: R14R-80APB-ET80B-07B03
Code: On request
Weight:

Airflow direction - blowing

Type: R14P-80APB-ET80B-07B03
Code: On request
Weight:

02



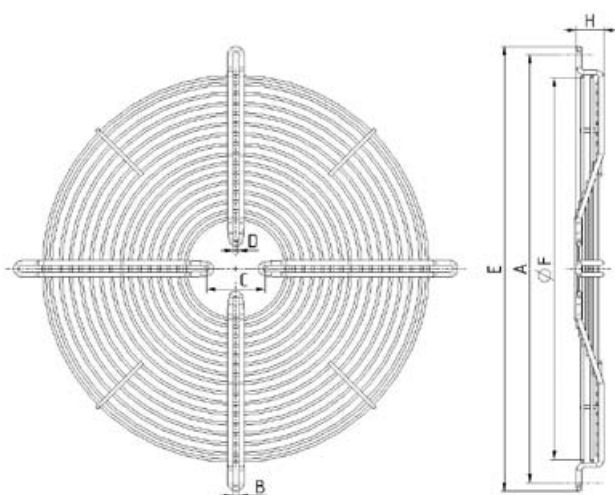
Accessories

Guard grills

Main dimensions – Basket grills Type 1

Fan dia	Motor type	A	B	C	D	E	Ø F	G	H	Code
300	EC09	360	6.5	125	5	380	323	63	83	0300-1-3513
300	EC09	360	6.5	125	5	380	323	4	24	0300-1-3517
300	EC09	360	6.5	125	5	380	323	28	47.5	0300-1-3523
350	EC09	422	6.5	125	5	440	380	43	70	0300-1-3502
350	EC09	422	6.5	125	5	440	389	-12	30	0300-1-3516
350	EC09	422	6.5	125	5	440	380	48	75	0300-1-3520
350	EC09	422	6.5	125	5	440	389	25	52	0300-1-3524
400	EC09	455	6.5	125	5	474	419	45	73	0300-1-3510
400	EC09	502	6.5	125	5	520	459	-12	30	0300-1-3518
400	EC09	455	6.5	125	5	474	419	70	98	0300-1-3521
400	EC09	502	6.5	125	5	520	459	30	57	0300-1-3525
450	EC09	515	6.5	125	5	534	479	48	76	0300-1-3515
450	EC09	560	6.5	125	5	578	521	-12	30	0300-1-3519
450	EC09	515	6.5	125	5	534	479	66.5	94	0300-1-3522
450	EC09	560	6.5	125	5	578	521	27	54	0300-1-3526

Basket grills Type 1

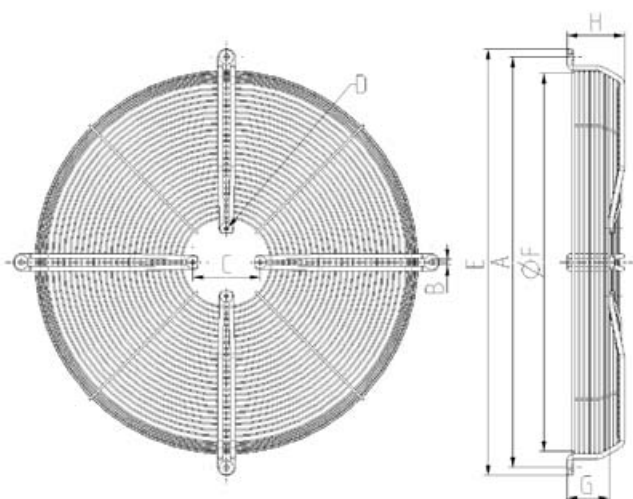


Notes: Surface black painted RAL9005

Main dimensions – Basket grills Type 2

Fan dia	Motor type	A	Ø B	C	Ø D	E	Ø F	G	H	Code
450	EC10	515	9	164	7	534	475	47	82	0300-1-3349
450	EC10	515	9	164	7	534	475	68	103	0300-1-3388
500	EC10	565	9	164	7	590	522	56	93	0300-1-3348
560	EC10	700	9	164	7	725	645	62	99	0300-1-3409
630	EC10	750	9	164	7	775	695	81	118	0300-1-3347
630	EC10	750	9	164	7	775	695	48	85	0300-1-3386
500	EC14	565	9.5	186	7	591	521	55.5	97	0300-1-3412
500	EC14	565	9	186	7	594	521	80.5	122	0300-1-3468
500	EC14	615	9	186	7	645	571	28.5	70	0300-1-3489
560	EC14	658	9	186	7	690	616	32.5	74	0300-1-3490
560	EC14	700	9	186	7	725	656	44.5	86	0300-1-3466
560	EC14	700	9	186	7	725	656	104.5	146	0300-1-3487
630	EC14	720	9	186	7	753	684	17	59	0300-1-3491
630	EC14	750	9	186	7	775	706	67	109	0300-1-3469
630	EC14	750	9	186	7	775	706	85	127	0300-1-3488

Basket grills Type 2



Notes: Surface black painted RAL9005

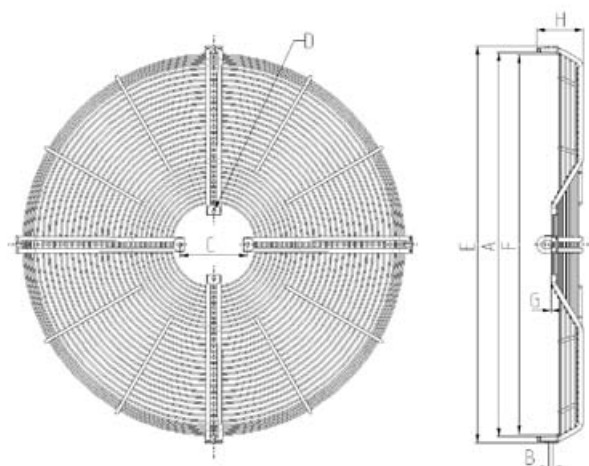
Main dimensions – Basket grills Type 3

Fan dia	Motor type	A	Ø B	C	Ø D	E	F	G	H	Code
500	EC10	519	7	164	6.5	537	507	1	50	0300-1-3381
560	EC10	578	7	164	6.5	596	566	6	66	0300-1-3398
630	EC10	654	7	164	6.5	672	642	6	66	0300-1-3382
500	EC14	519	7	186	7	539	513	2	71	0300-1-3441
630	EC14	654	7	186	7	674	648	- 8	61	0300-1-3451

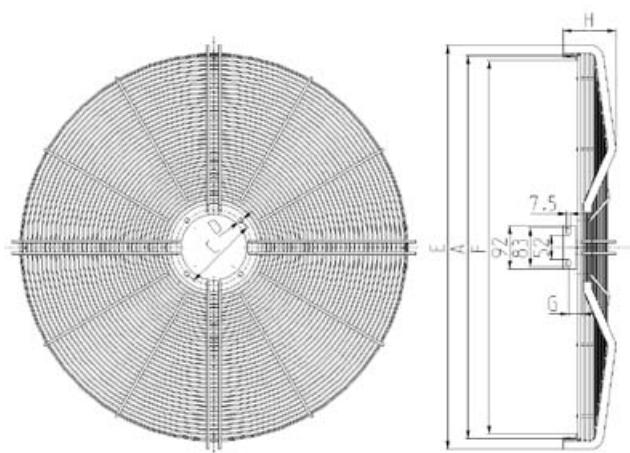
Main dimensions – Basket grills Type 4

Fan dia	Motor type	A	B	C	Ø D	E	F	G	H	Code
710	EC14	730	8 x 15	186	7	772	707	-28	60	0300-1-3445
800	EC14	816	8 x 15	186	7	858	793	-23	60	0300-1-3442

Basket grills Type 3



Basket grills Type 4



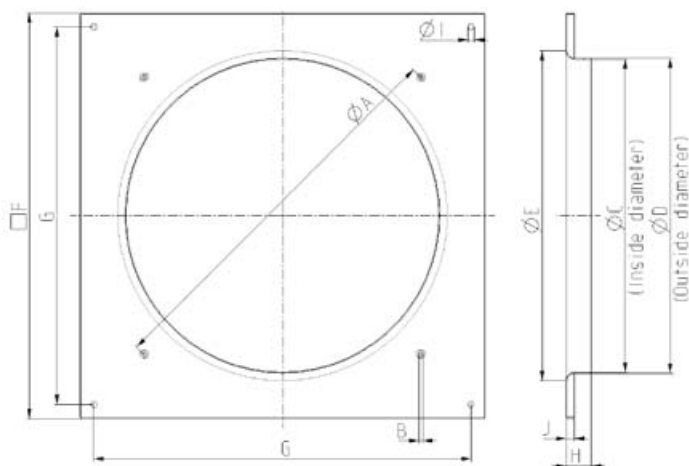
Notes: Surface black painted RAL9005

Wall plates

Main dimensions – Square short wall plates

Fan dia	Airflow direction	A	B	Ø C	Ø D	Ø E	q F	G	H	Ø I	J	Code
300	sucking	360	M6	307	310	337	430	380	45	11	15	0300-6-7122
300	blowing	360	M6	307	310	337	430	380	45	11	15	0300-6-7073
315	sucking	375	M6	319	322	349	430	380	45	11	15	0300-6-7120
315	blowing	375	M6	319	322	349	430	380	45	11	15	0300-6-7075
330	sucking	400	M6	337	340	367	485	435	45	11	15	0300-6-7118
330	blowing	400	M6	337	340	367	485	435	45	11	15	0300-6-7104
350	sucking	422	M6	360	363	390	485	435	45	11	15	0300-6-7116
350	blowing	422	M6	360	363	390	485	435	45	11	15	0300-6-7077
400	sucking	455	M8	403	406	433	540	490	45	11	15	0300-6-7114
400	blowing	455	M8	403	406	433	540	490	45	11	15	0300-6-7079
420	blowing	483	M8	426	429	460	575	535	45	11	15	0300-6-7087
450	sucking	515	M8	452	455	482	575	535	45	11	15	0300-6-7112
450	blowing	515	M8	452	455	482	575	535	45	11	15	0300-6-7069
500	sucking	565	M8	504	507	534	655	615	45	11	15	0300-6-7110
500	blowing	565	M8	504	507	534	655	615	45	11	15	0300-6-7081
560	sucking	700	M8	560	563	590	725	675	45	11	15	0300-6-7108
560	blowing	700	M8	560	563	590	725	675	45	11	15	0300-6-7083
630	sucking	750	M8	635	638	675	805	750	60	11	15	0300-6-7106
630	blowing	750	M8	635	638	675	805	750	60	11	15	0300-6-7071

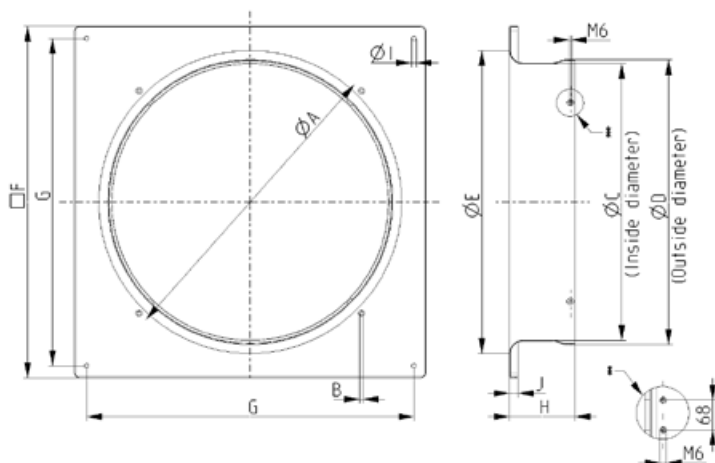
Square short wall plate



Main dimensions – Square long wall plates

Fan dia	Airflow direction	A	B	Ø C	Ø D	Ø E	q F	G	H	Ø I	J	Code
500	sucking	615	M8	504	518	585	656	615	118	11	16	0300-6-7089
560	sucking	658	M8	560	577	630	725	675	135	11	16	0300-6-7095
630	sucking	720	M8	634	653	695	805	750	150	11	20	0300-6-7091
710	sucking	/	/	711	729	790	850	810	167	14.5	20	0300-6-7085
800	sucking	/	/	797	815	915	970	910	210	14.5	17	0300-6-7068

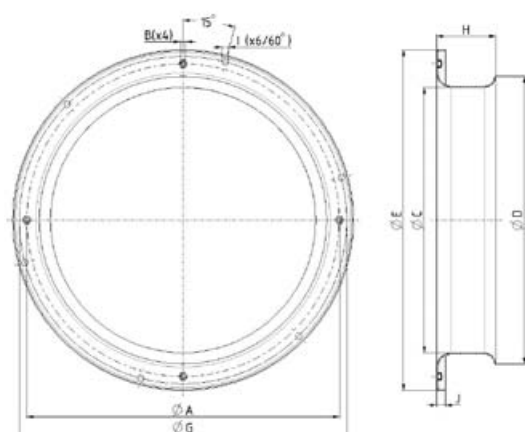
Square long wall plate



Main dimensions – Round long wall plates 1

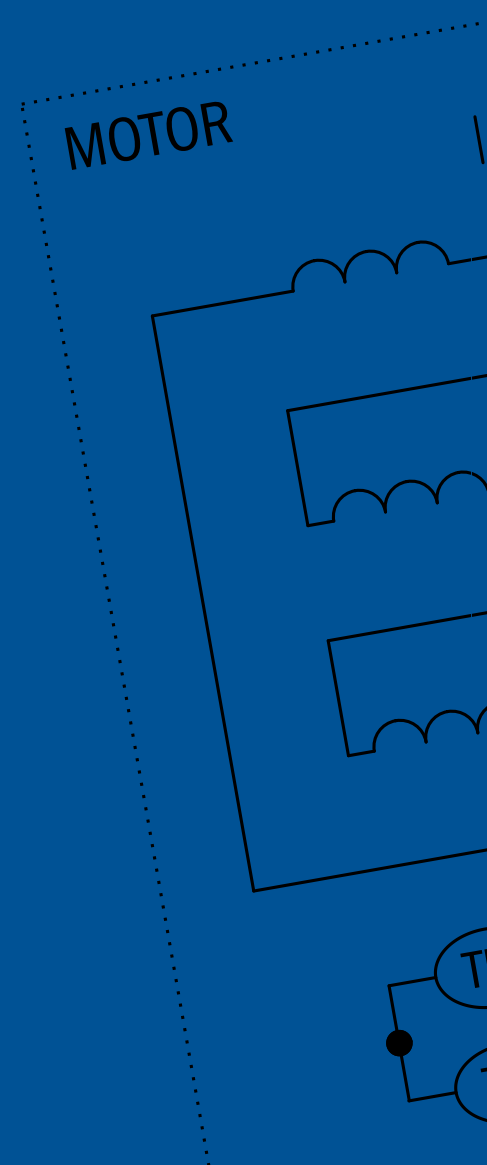
Fan dia	Airflow direction	A	B	Ø C	Ø D	Ø E	q F	G	H	Ø I	J	Code
300	sucking	361	M6	306	326	397	/	380	80	9	11	0300-6-7144
315	sucking	375.5	M6	317	347	397	/	380.5	74	9	11	0300-6-7146
330	sucking	408	M6	336	369	440	/	404	80	9	9	0300-6-7148
350	sucking	422	M6	358	388	460	/	442	80	9	12	0300-6-7150
400	sucking	502	M6	400	419	528	/	504	96	9	12	0300-6-7166
420	sucking	502	M8	426	447	544	/	520	96	9	12	0300-6-7168
450	sucking	560	M8	454	465	607	/	578	100	9	14	0300-6-7170

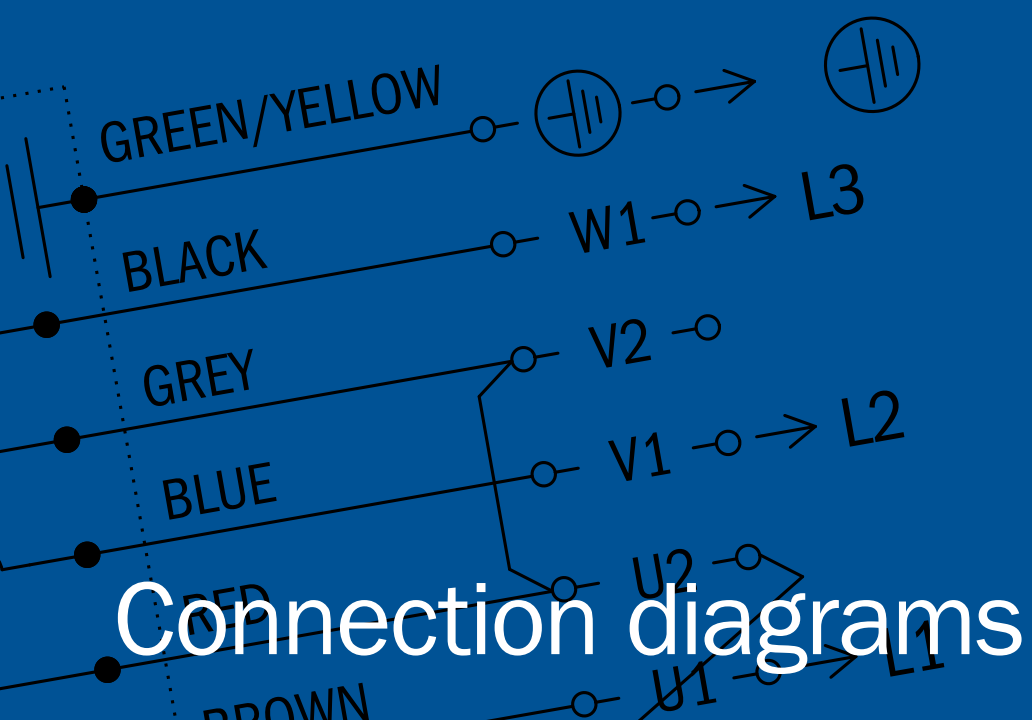
Round long wall plate Type 1



Notes: Surface black painted RAL9005

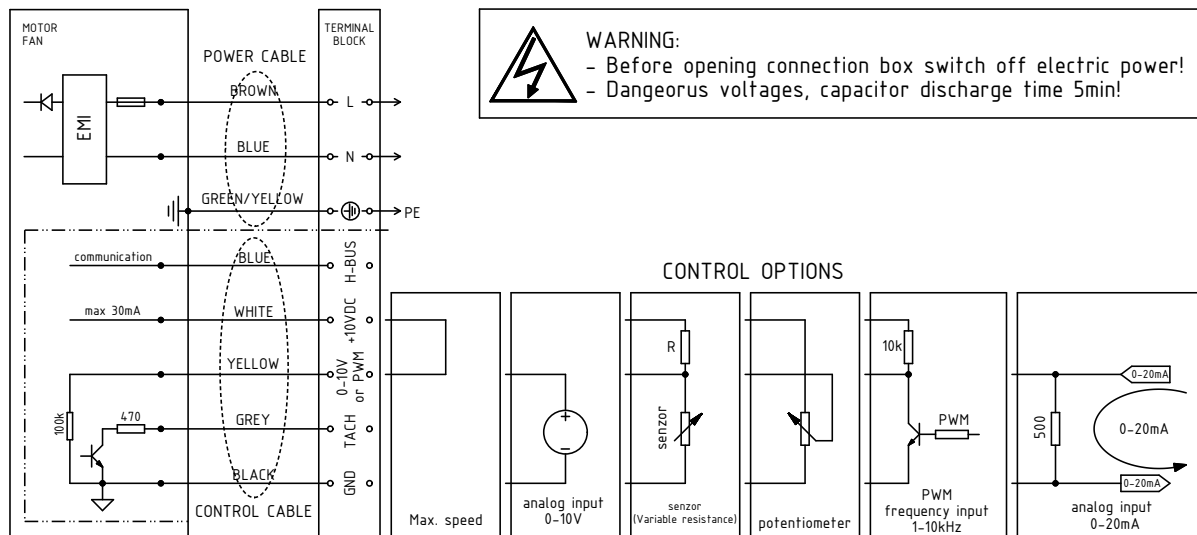
03



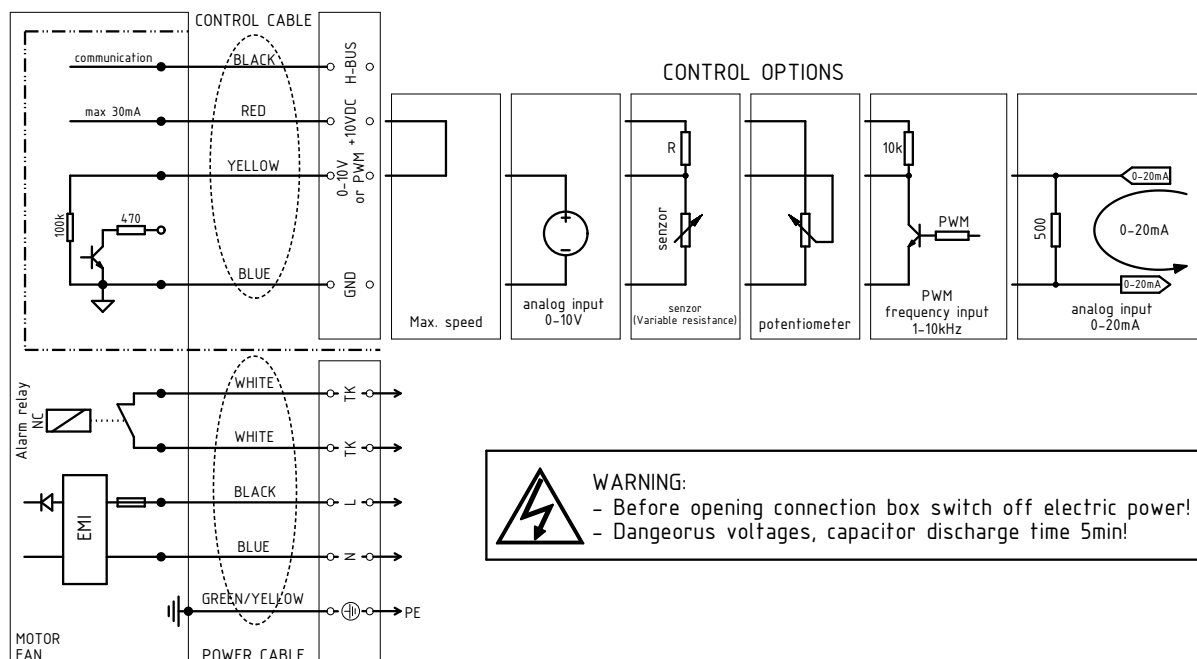


Connection diagrams

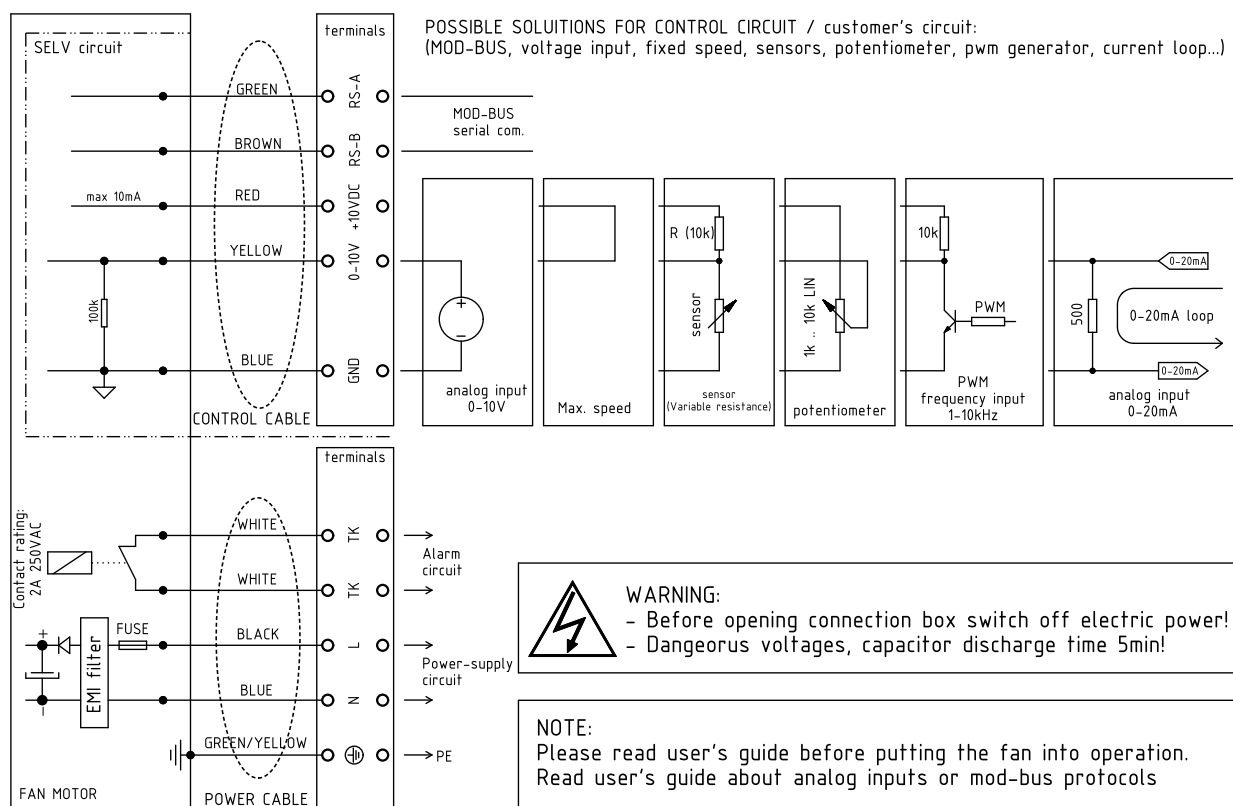
■ Connection diagrams 0302-1-0000



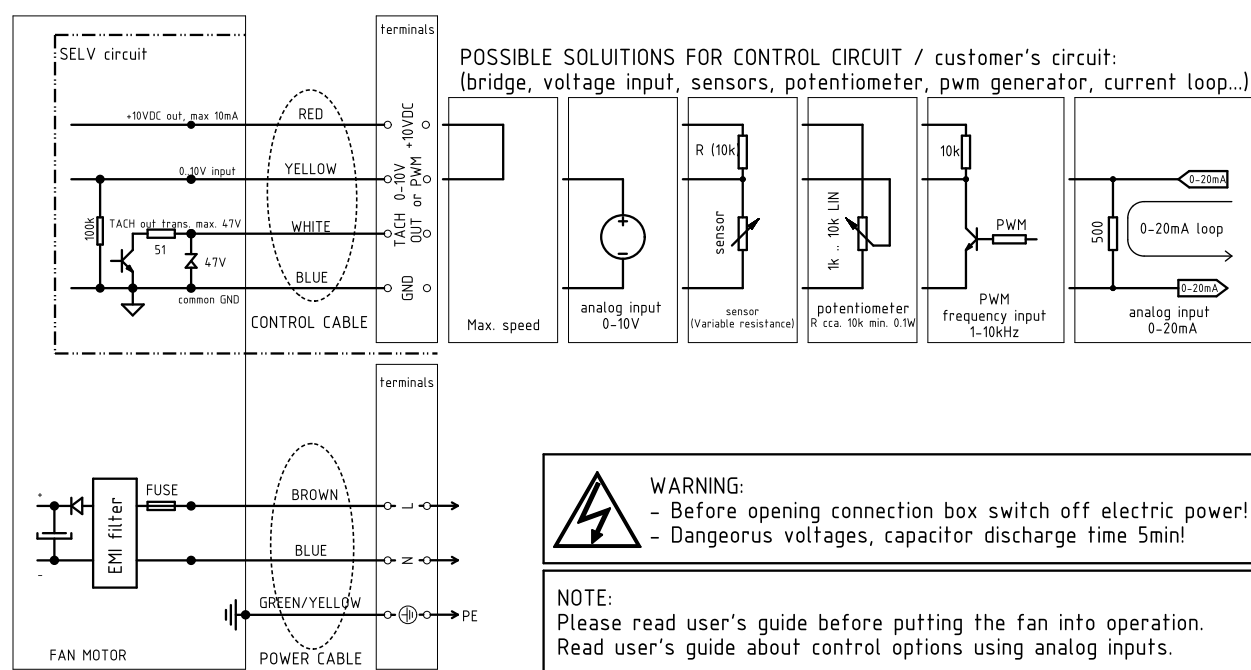
■ Connection diagrams 0302-0-0001



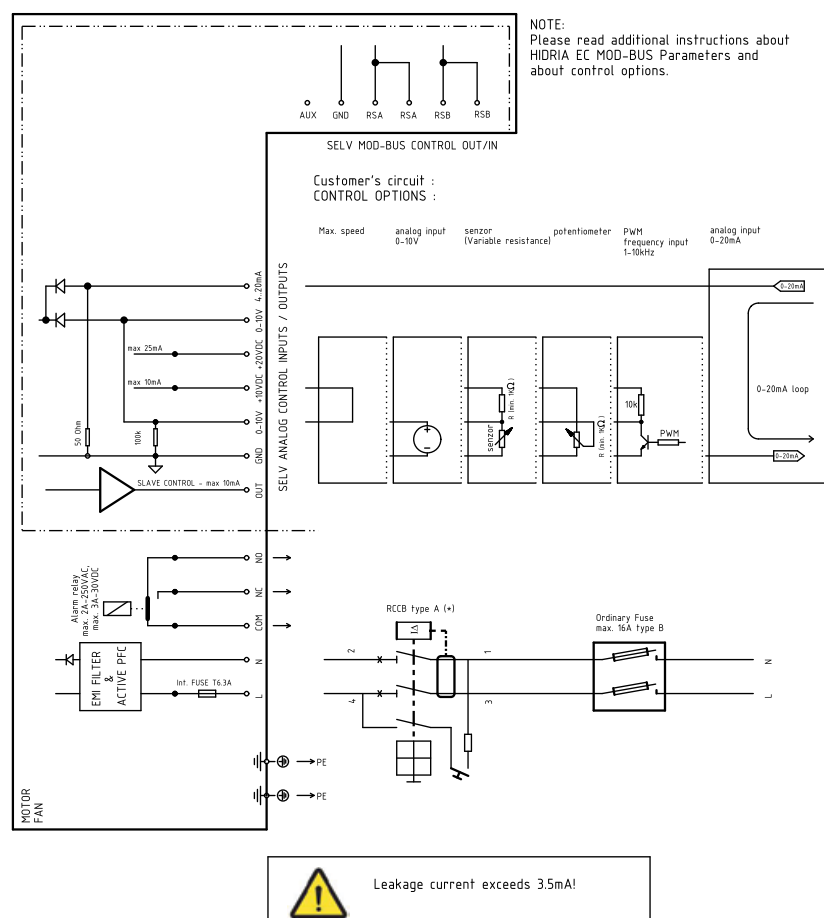
■ Connection diagrams 0302-0-0006



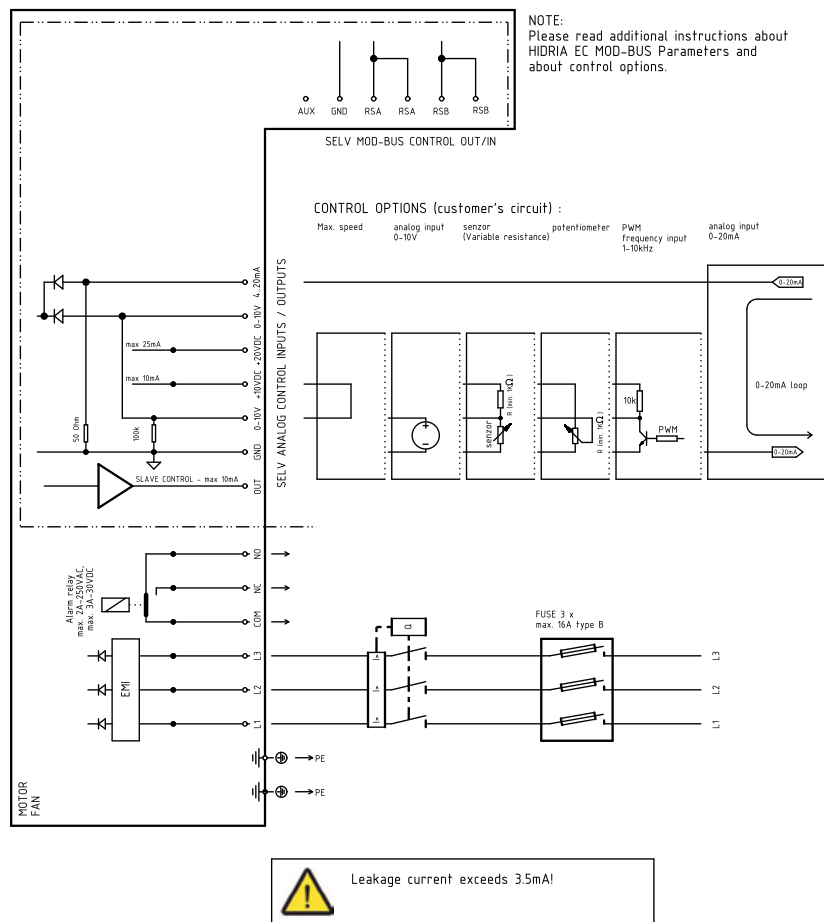
■ Connection diagrams 0302-0-0008



■ Connection diagrams 0302-0-1005



■ Connection diagrams 0302-0-1006



04

$$\frac{V_1}{V_2} = \frac{n_1}{n_2}$$

$$\frac{p_1}{p_2} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$$

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$$

Appendix

$$L_{wA_2} = L_{wA_1} + 50 \log \left(\frac{n_2}{n_1}\right)$$

Conversion tables

Volume flow	
[m ³ /h]	[ft ³ /min]
0	0
100	170
200	340
300	510
400	680
500	850
600	1019
700	1189
800	1359
900	1529
1000	1699
1200	2039
1400	2379
1600	2718
1800	3058
2000	3398
2500	4248
3000	5097
3500	5947
4000	6796
4500	7646
5000	8495
6000	10194
7000	11893
8000	13592
9000	15291
10000	16990
11000	18689
12000	20388
13000	22087
14000	23786
15000	25485
16000	27184
17000	28883
18000	30582
19000	32281
20000	33980
21000	35679
22000	37378
23000	39077
24000	40776
25000	42475
26000	44174

Pressure		
[Pa]	[mmHg]	[mmH ₂ O]
0	0,000	0,000
5	0,038	0,510
10	0,075	1,020
15	0,113	1,530
20	0,150	2,039
25	0,188	2,549
30	0,225	3,059
35	0,263	3,569
40	0,300	4,079
45	0,338	4,589
50	0,375	5,099
55	0,413	5,608
60	0,450	6,118
65	0,488	6,628
70	0,525	7,138
75	0,563	7,648
80	0,600	8,158
85	0,638	8,668
90	0,675	9,177
95	0,713	9,687
100	0,750	10,197
125	0,938	12,746
150	1,125	15,296
175	1,313	17,845
200	1,500	20,394
300	2,250	30,591
400	3,000	40,789
500	3,750	50,986
600	4,500	61,183
700	5,250	71,380
800	6,001	81,577
900	6,751	91,774
1000	7,501	101,972
1100	8,251	112,169
1200	9,001	122,366
1300	9,751	132,563
1400	10,501	142,760
1500	11,251	152,957
1600	12,001	163,155
1700	12,751	173,352
1800	13,501	183,549
1900	14,251	193,746
2000	15,001	203,943

Temperature	
[C°]	[F]
-30,0	-22,0
-27,5	-17,5
-25,0	-13,0
-22,5	-8,5
-20,0	-4,0
-17,5	0,5
-15,0	5,0
-12,5	9,5
-10,0	14,0
-7,5	18,5
-5,0	23,0
-2,5	27,5
0,0	32,0
2,5	36,5
5,0	41,0
7,5	45,5
10,0	50,0
12,5	54,5
15,0	59,0
17,5	63,5
20,0	68,0
22,5	72,5
25,0	77,0
27,5	81,5
30,0	86,0
32,5	90,5
35,0	95,0
37,5	99,5
40,0	104,0
42,5	108,5
45,0	113,0
47,5	117,5
50,0	122,0
52,5	126,5
55,0	131,0
57,5	135,5
60,0	140,0
62,5	144,5
65,0	149,0
67,5	153,5
70,0	158,0
72,5	162,5
75,0	167,0

Fluid flow rules for fans

Speed variation at constant fan size and constant density:

$$\frac{V_1}{V_2} = \frac{n_1}{n_2}$$

The volume flow changes proportionately to the speed.

$$\frac{p_1}{p_2} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$$

All pressures (static, dynamic and total) change proportionately to the square of speed or volume flow.

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$$

The power requirement changes proportionately to the third power of speed or volume flow.

$$L_{wA_2} = L_{wA_1} + 50 \log\left(\frac{n_2}{n_1}\right)$$

Correlation between sound power level (A weighted) and fan rotation speed.

In the case of changes in the wheel diameter of geometrically similar wheels at constant speed:

$$\frac{V_1}{V_2} = \left(\frac{D_1}{D_2}\right)^3$$

The volume flow changes proportionately to the third power of wheel diameter.

$$\frac{p_1}{p_2} = \left(\frac{D_1}{D_2}\right)^2$$

All pressures (static, dynamic and total) change proportionately to the square of wheel diameter.

$$\frac{P_1}{P_2} = \left(\frac{D_1}{D_2}\right)^5$$

The power requirement changes proportionately to the fifth power of wheel diameter.

Changes in the density at constant speed (or change of the Kelvin temperature at a constant volume flow):

$$V = \text{Const}$$

The volume flow is not affected.

$$\frac{p_1}{p_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

All pressures (static, dynamic and total) change proportionately to the density.*

$$\frac{P_1}{P_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

The power requirement changes proportionately to the density.*

*Temperature is expressed in kelvin scale [K]

Formulas are of an informative nature.

[illegible]

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