

Fans

Technical
Catalogue

General data

Labeling

Labelling a fan as either ErP2013 or ErP2015 compliant indicates that it is compliant with the minimum requirements set forth in the respective Commission Regulation EU No 327/2011. The actual energy efficiency level of the fan used for the ErP rating is noted as η_{stat} . In order to comply with the requirements set forth in the ErP regulation, this energy efficiency level has to reach a specific minimum value (target energy level). The 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 ErP refer to measurement data established using the Hidria standard full bell mouth, and is based on a drawing and measurement table without guard grille. Actual efficiency level for every and each particular fan are published at Hidria web site 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 m³/h. The specified performance data meets the requirements according to accuracy class 3, compliant with DIN 24 166, and applies to the rated data and air performance curves at the rated voltage, air density of 1,2 kg/m³ and at 20 °C ambient temperature. The continuous line in the characteristic map represents the optimum reliable operating range for axial fans.

Fan test-bench

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

The characteristic curves are measured in compliance with DIN EN ISO 5801. The sound power levels are measured in reverberant room in compliance with DIN EN ISO 3743. The fan is attached to the measuring chamber with 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. guard grille.

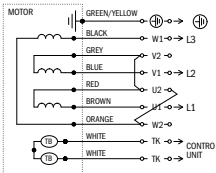
The A-weighted sound power level is the standard variable used to assess the sound characteristics of technical equipment.

General notes

The information and data contained in this catalogue were composed to the best of our ability and do not absolve the user from its duty to verify the suitability of the products with respect to its intended application.

Hidria reserves the right to make design changes, which are used for continuous performance and/or safety improvement.



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01





EC Axial fans

EC AXIAL FANS

AC AXIAL FANS
SICKLED BLADESAC AXIAL FANS
PLASTIC BLADESAC AXIAL FANS
PADDLE BLADESAC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

CONNECTION DIAGRAMS

EC Axial fans

■ Electrical connection and motor

The three-phase or single phase EC (Electronically Commutated) external rotor permanent magnet integrated into the fan hub meets the requirements for circulating electric machines according to EN 60335-2-80:2003.

The rated voltage for a three-phase power supply is 400 V and for single-phase it is 230 V. The EC motors are suitable for power network with single phase voltage range 200.277 V 50/60 Hz or three-phase 380-480V 50/60Hz. Refer to the data sheet of each fan for the details.

■ Motor connection

Mains connection is made via terminal box or outgoing connection cable as shown in dimensional drawings.

The standard version of an EC fan has:

- 1 or 3 phase line,
- N – neutral,
- G- ground,
- analog input (0-10 V or PWM),
- SELV power supply 10 VDC (max. 30 mA),
- Tach out or error out signal (programmable),

Reference control signal is optional when build in PID controller is required.

■ Terminal box and connection cable

Terminal boxes are made of shock-proof and weather-resistant plastics.

Heat and UV resistant halogen-free hose cables are used, marked by a color code or connection designations as labeled on to 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 tri phase products.

■ Speed controls

Hidria EC fans are made with integrated electronic variable speed drive (VSD). Speed variation can be made by speed input signal 0V to 10 VDC, 4-20 mA or Pulse

Width Modulated(PWM) frequency signal. Please read EC fan safety, installation and maintenance instructions prior any of these actions is to be taken.

■ Installation and usage information

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

■ Materials and corrosion protection

Hidria EC Axial fan impellers are made of high-performance PA composite material or steel. The impeller is pressed onto the rotor. The stator flange is made of hi-pressure die-casted seawater resistant aluminum alloy. Rotors and fan nozzles are made of steel sheet and coated to meet resistance to corrosion as set by ISO 12944-2 class C3 (medium). Additional coating on request and at supplementary cost. The wire protection grilles have a weather resistant plastic coating.

■ Operating conditions and product life

Safety

The fans may only be operated when they are installed as intended and when safety is ensured by safety equipment according to DIN EN 294 resp. ISO13852 (DIN EN ISO 12100) or by other protection measures.

Safety approvals

Depending on the product, Hidria fans comply with the one or more of the following standards: EN 60335-1, EN 61800-5-1 and EN 60034-1. All EC fans can be supplied with CE approvals. UL/ CSA, CCC and/or GOST approvals on request. All EC fans meet requirements of EU Directives ROHS 2002/95/EC and REACH 1907/2006/EC.

Condensation drain holes

EC fans are intended to be installed with rotor in horizontal position or with rotor at the bottom of the fan (connection box or cables on the top). The lower of the

condensation drain hole must be open when the fan is installed with the rotor at the bottom. With horizontal mounting position condensate can escape via the gap between stator and rotor. Fans suitable for installation with rotor at the top (connection box or cables at the bottom) or at any other angle are available only on request.

Operating mode

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

Resistance to water, dust and moisture

Majority of axial fans are resistant to 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 between -25 °C and +65 °C.
- Storage temperatures -40 °C to +80 °C.

Product life

By utilizing lifetime maintenance free bearings, our EC axial fans are maintenance free for the entire life time of approximately 30-40.000 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 grilles, 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.

The guard grille results in a resistance to the conveyed airflow, which manifests itself in the pressure loss.

Axial fans with electronically comutated (EC) motors



Stamped metal blades (type 30H)
Diameters: 300-350 mm



Plastic blades (type AP, LP)
Diameters: 400-500 mm



Plastic blades (type LP)
Diameters: 560-630 mm

Example of type key:

R10R-40APS-ES50B-02A01

- R10** External rotor motor type (R09, R10)
- 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, AP, LP)
- S** Airflow direction (S – sucking, B – blowing)
- E** Fan motor type (E – fan with electronically comutated motor and integrated VSD)
- S** Electrical connection (S – single phase)
- 50** Motor stack height
- B** Type of connecting (B – connection box with terminal block, C – cable)
- 02** Version of motor construction
- A** Version of electronical controller
- 01** Settings of electronical 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

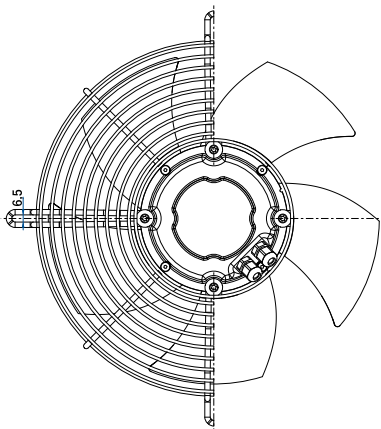
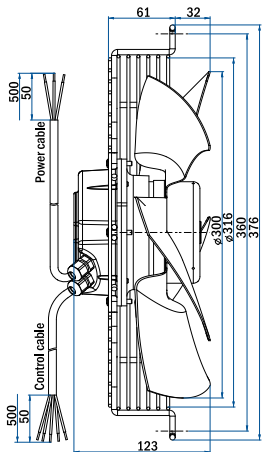
ErP data according to EU regulation 327/2011:
Is not subject to the EU regulation 327/2011.
Power input lower than 125 W.

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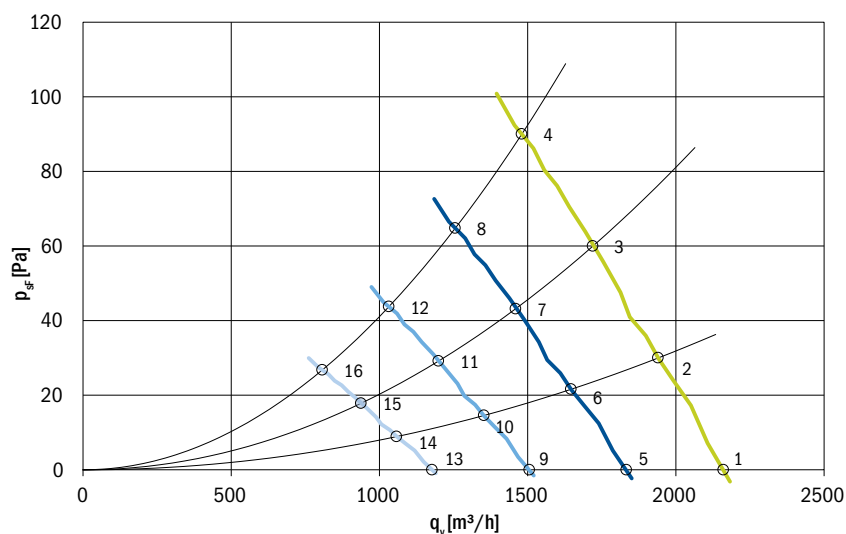
Dimensions and fan ordering information



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



Type: R09P-3030HS-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	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

Aerodynamic characteristic:

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

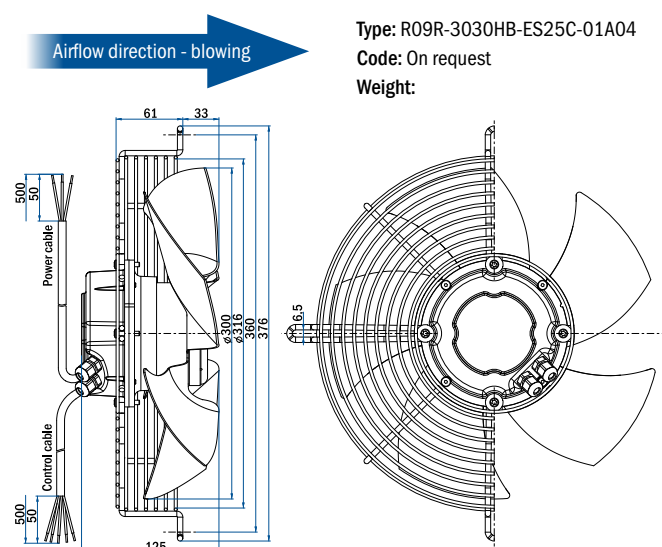
Sound power level:

- measured on pressure side 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

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

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

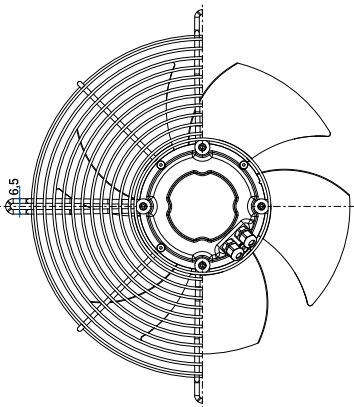
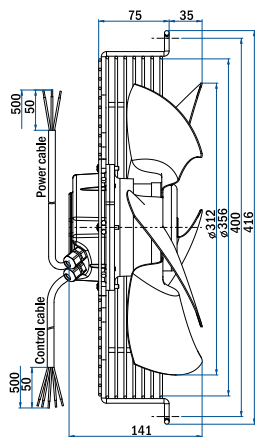
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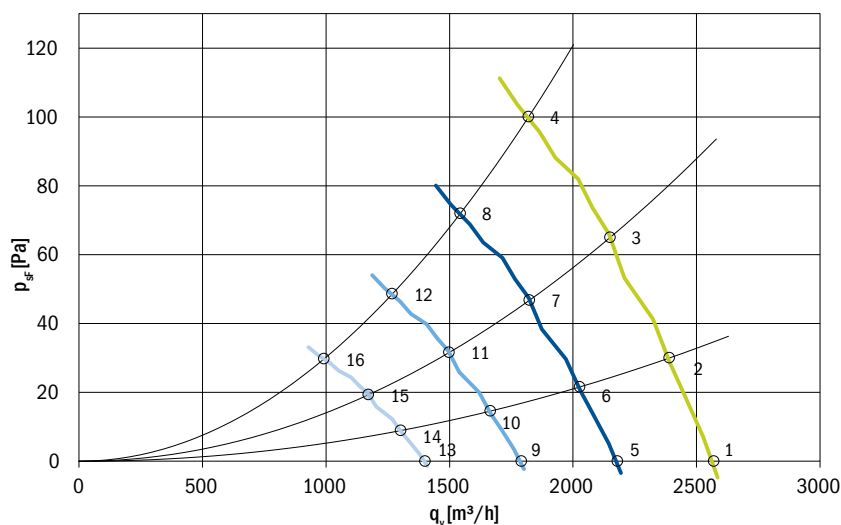
Dimensions and fan ordering information



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

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

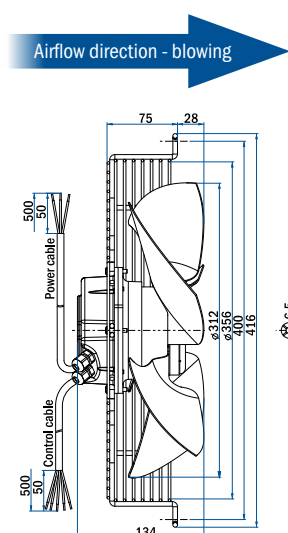
Sound power level:

- measured on pressure side 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

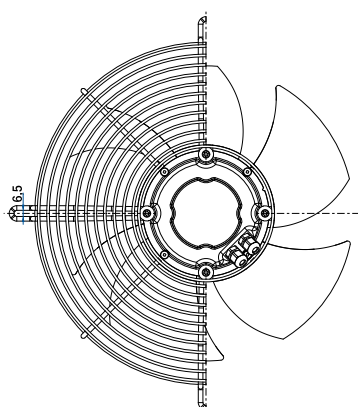
The values given may vary according to actual installation in the unit.

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

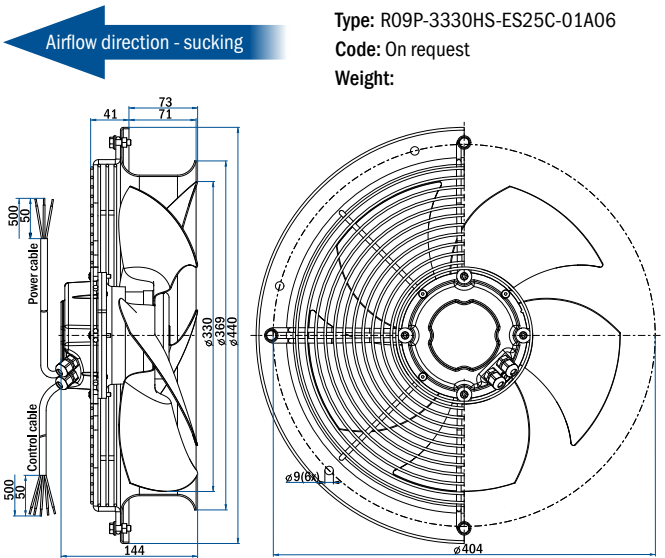
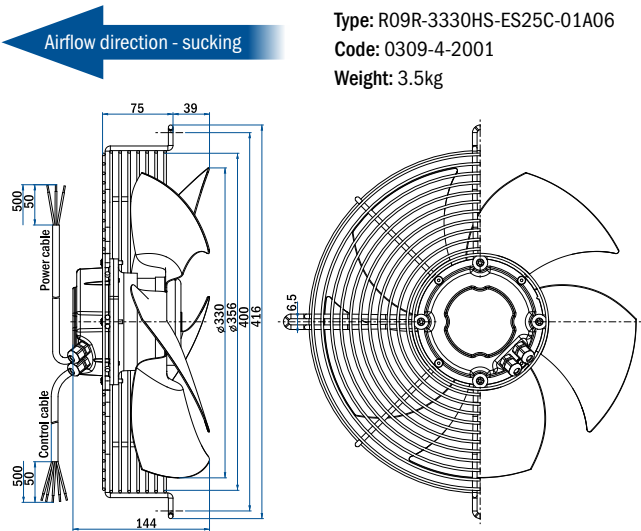


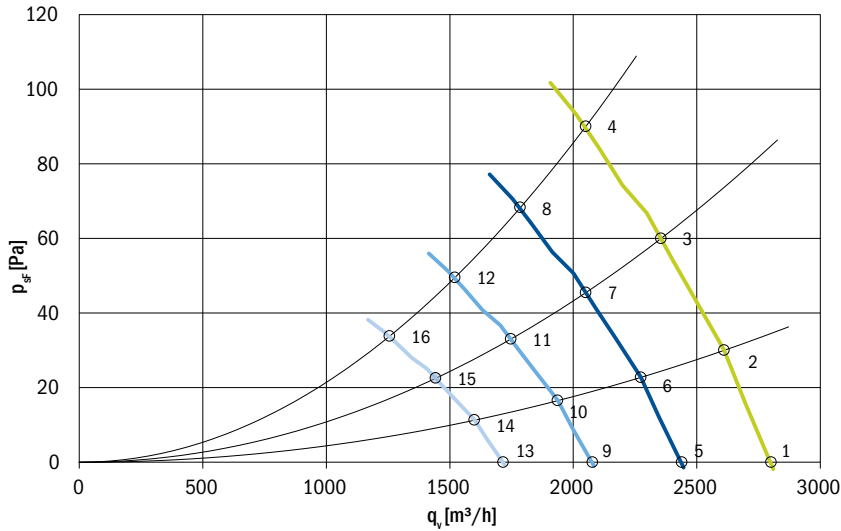
Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Nominal voltage range	230 V
Frequency	50-60 Hz
Input power	120 W
Input current	0.90 A
Nominal speed	1550 RPM
Min. ambient temperature	-25 °C
Protection class	IP44
Insulation class	130

ErP data according to EU regulation 327/2010:	
Overall efficiency	46.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	58.2
Variable speed drive	INTEGRATED
Power input	136 W
Air flow	1854 m³/h
Pressure drop	111 Pa
Rotational speed	1556 RPM
Specific ratio	1.00

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Dimensions and fan ordering information





	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

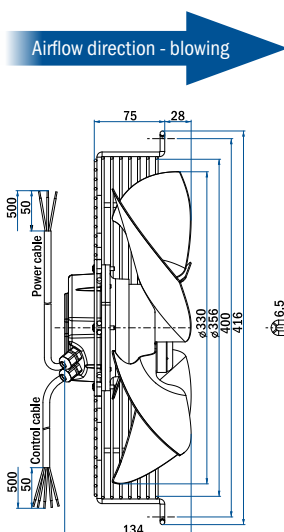
Sound power level:

- measured on pressure side 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

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

Definition of symbols

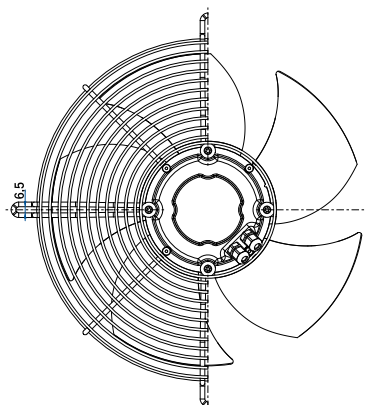
U [V]	Supply voltage
f [Hz]	Frequency
n [RPM]	Fan speed
q _v [m³/h]	Air flow
p _{sF} [Pa]	Pressure drop
P _e [W]	Power input
I [A]	Current
L _{WA} [dB (A)]	Sound power level A weighted
T _a max [°C]	Max. ambient temperature



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 327/2010:

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:

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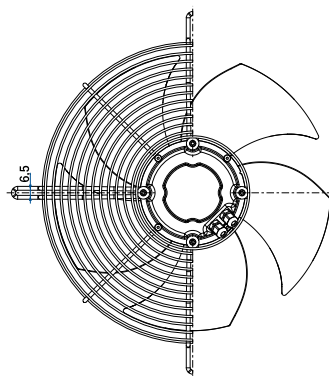
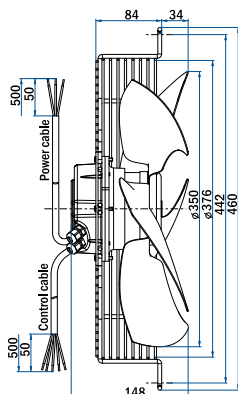
Dimensions and fan ordering information



Type: R09R-3530HS-ES25C-01A01

Code: 0309-4-2000

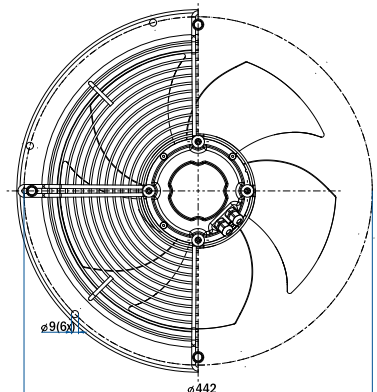
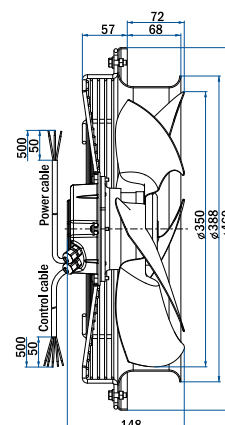
Weight: 3.6 kg

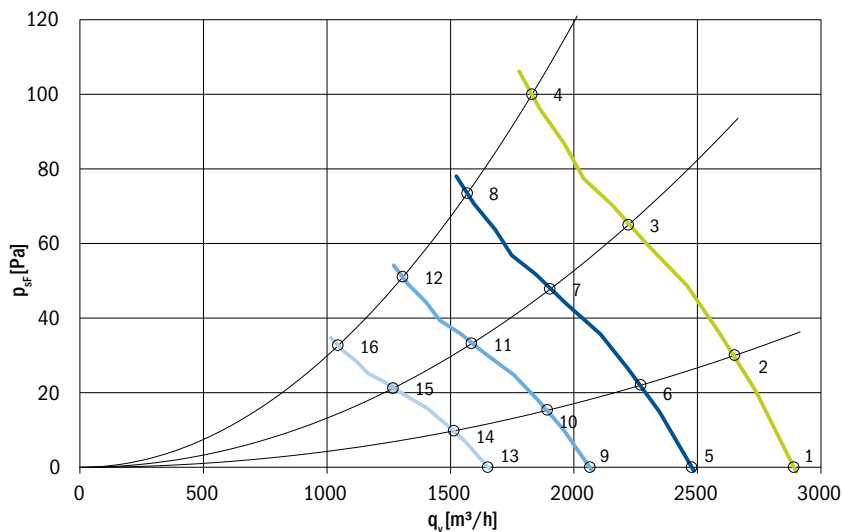


Type: R09P-3530HS-ES25C-01A01

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 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

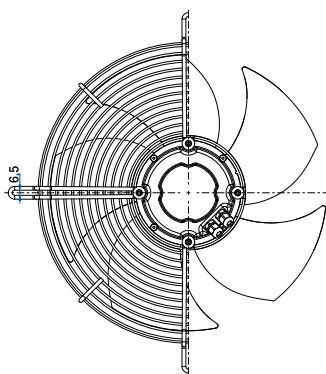
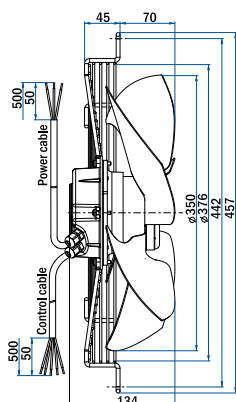
The values given may vary according to actual installation in the unit.

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

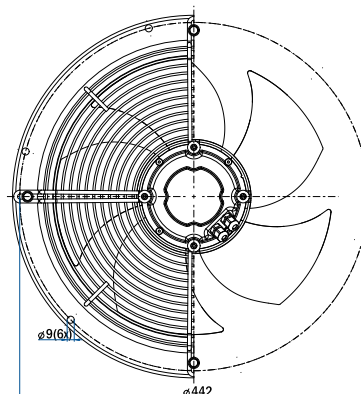
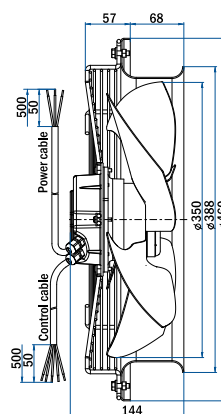
Airflow direction - blowing

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:

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 327/2010:

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:

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Accessories

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Compliant to standards

Page 6

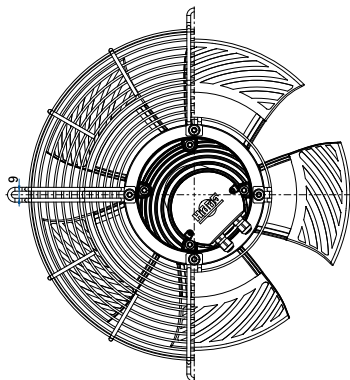
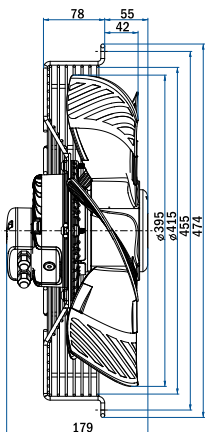
Dimensions and fan ordering information



Type: R10R-40APS-ES50B-02A01

Code: 0310-4-0000

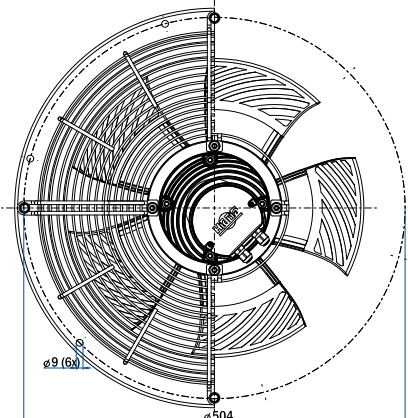
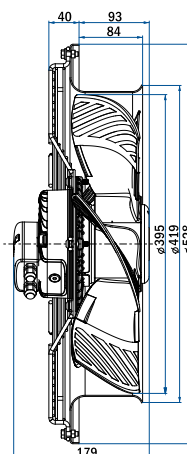
Weight: 5.0 kg

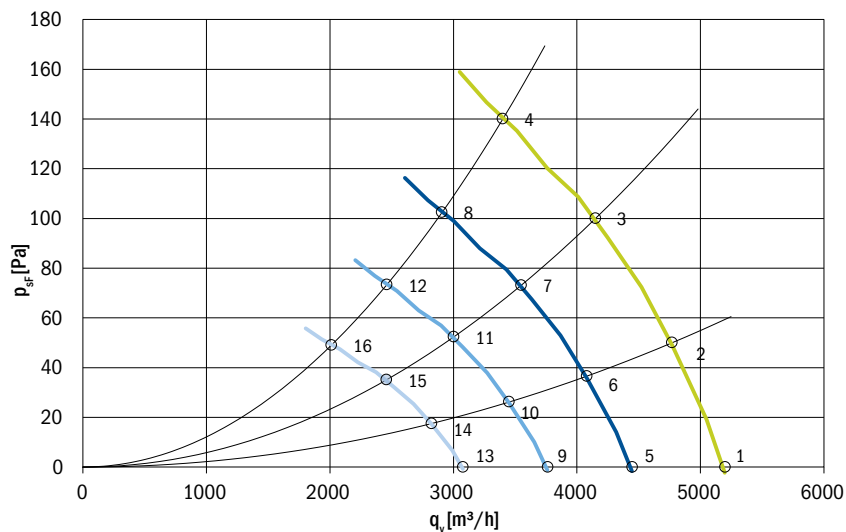


Type: R10P-40APS-ES50B-02A01

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:

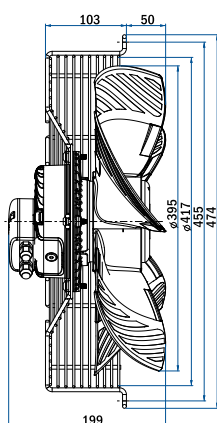
- measured on pressure side 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

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

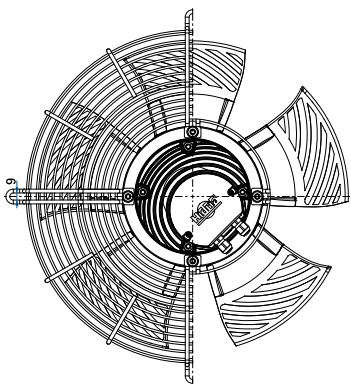
Definition of symbols

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

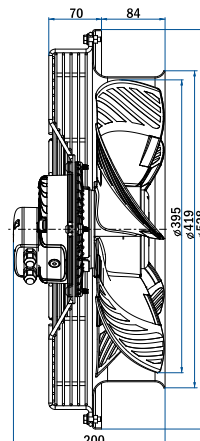
Airflow direction - blowing



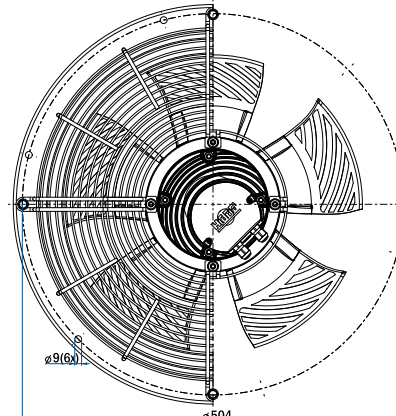
Type: R10R-40APB-ES50B-02A01
Code: 0310-4-0026
Weight: 5.0 kg



Airflow direction - blowing



Type: R10P-40APB-ES50B-02A01
Code: 0310-4-0027
Weight: 7.5 kg



Diameter:

450 mm



R10_-45AP_-ES50B-04A05

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	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 327/2010:

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:

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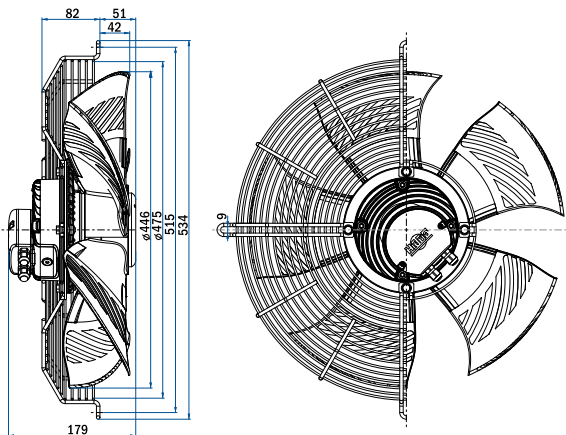
Compliant to standards

Page 6

Dimensions and fan ordering information

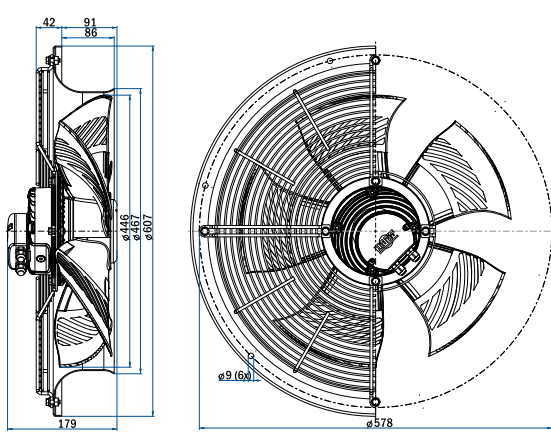
Airflow direction - sucking

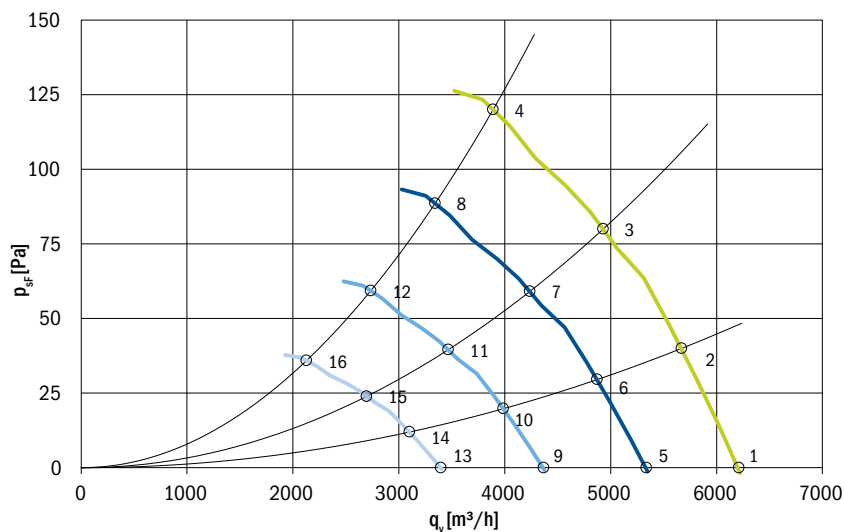
Type: R10R-45APS-ES50B-04A05
Code: 0310-4-0018
Weight: 5.3 kg



Airflow direction - sucking

Type: R10P-45APS-ES50B-04A05
Code: 0310-4-0028
Weight: 7.8 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	1280	6210	0	251	1.67	69	60
2	230	50	1280	5670	40	287	1.88	68	60
3	230	50	1280	4930	80	303	2.00	67	60
4	230	50	1280	3890	120	321	2.07	68	60
5	230	50	1100	5337	0	163	1.10	65	60
6	230	50	1100	4873	30	183	1.22	63	60
7	230	50	1100	4237	59	200	1.32	63	60
8	230	50	1100	3343	89	209	1.38	64	60
9	230	50	900	4366	0	92.4	0.66	60	60
10	230	50	900	3987	20	103	0.73	59	60
11	230	50	900	3466	40	113	0.79	58	60
12	230	50	900	2735	59	115	0.81	59	60
13	230	50	700	3396	0	47	0.37	54	60
14	230	50	700	3101	12	52	0.40	53	60
15	230	50	700	2696	24	56	0.43	52	60
16	230	50	700	2127	36	57	0.43	52	60

Aerodynamic characteristic:

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

Sound power level:

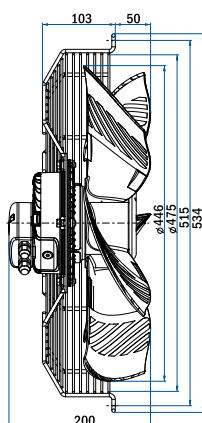
- measured on pressure side 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

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

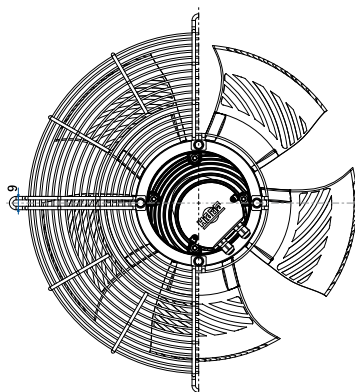
Definition of symbols

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

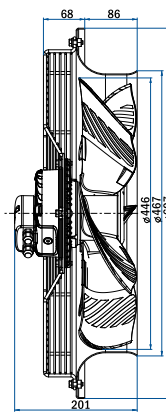
Airflow direction - blowing



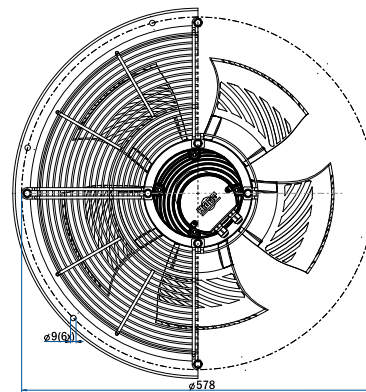
Type: R10R-45APB-ES50B-04A05
Code: 0310-4-0029
Weight: 5.3 kg



Airflow direction - blowing



Type: R10P-45APB-ES50B-04A05
Code: 0310-4-0030
Weight: 7.8 kg



Diameter:

500 mm

R10_-50LP_-ES50B-04A05



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	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 327/2010:	
Overall efficiency	49.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	58.7
Variable speed drive	INTEGRATED
Power input	340 W
Air flow	4750 m³/h
Pressure drop	121 Pa
Rotational speed	1278 RPM
Specific ratio	1.00

General notes	
Connection diagram:	Page 144
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Compliant to standards	Page 6

Dimensions and fan ordering information

Airflow direction - sucking

Type: R10R-50LPS-ES50B-04A05

Code: 0310-4-0022

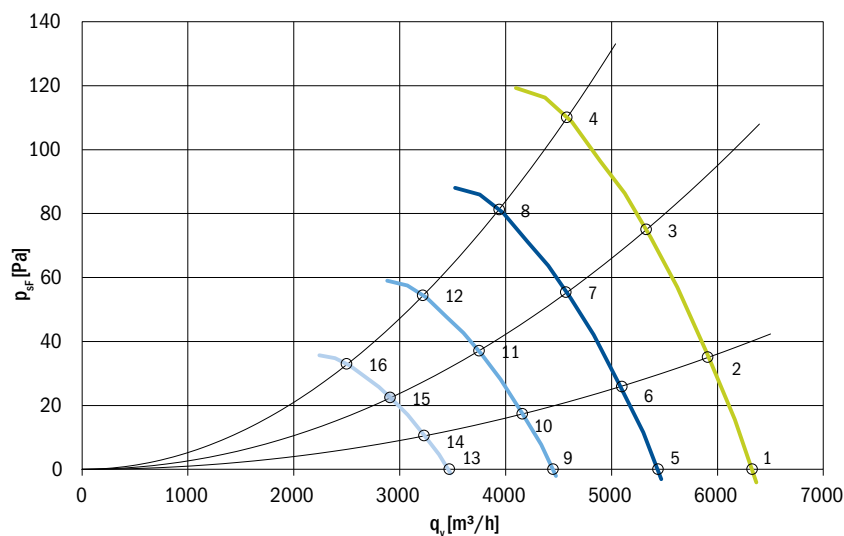
Weight: 5.8 kg

Airflow direction - sucking

Type: R10P-50LPS-ES50B-04A05

Code: 0310-4-0009

Weight: 11.3 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	1280	6330	0	206	1.39	70	65
2	230	50	1280	5910	35	245	1.64	70	65
3	230	50	1280	5330	75	296	1.97	70	65
4	230	50	1280	4580	110	326	2.16	73	65
5	230	50	1100	5440	0	135	0.94	66	65
6	230	50	1100	5100	26	165	1.13	67	65
7	230	50	1100	4570	55	195	1.33	66	65
8	230	50	1100	3940	81	212	1.42	69	65
9	230	50	900	4450	0	81	0.59	61	65
10	230	50	900	4160	17	92	0.66	61	65
11	230	50	900	3750	37	110	0.78	60	65
12	230	50	900	3220	54	122	0.85	63	65
13	230	50	700	3470	0	43	0.34	55	65
14	230	50	700	3230	10	49	0.38	54	65
15	230	50	700	2910	22	56	0.42	54	65
16	230	50	700	2500	33	64	0.47	57	65

Aerodynamic characteristic:

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

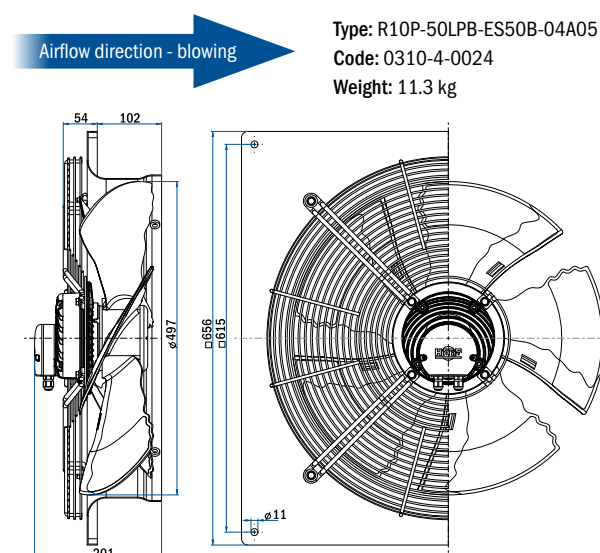
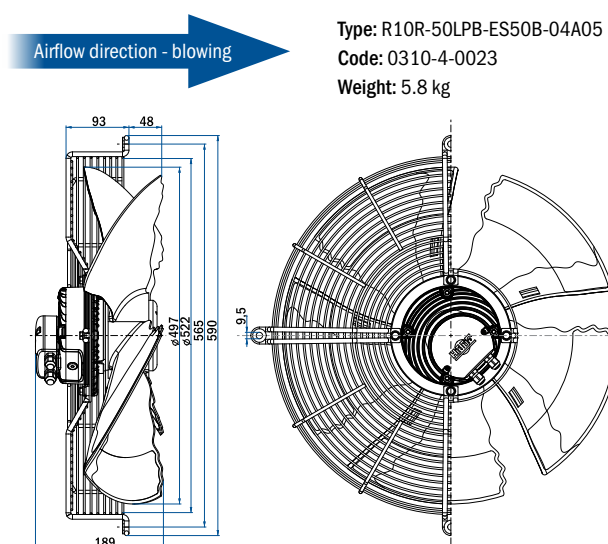
Sound power level:

- measured on pressure side 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

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



Diameter:

560 mm



R10_-56LP_-ES50B-04A10

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 327/2010:

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 m ³ /h
Pressure drop	80 Pa
Rotational speed	953 RPM
Specific ratio	1.00

General notes

Connection diagram:

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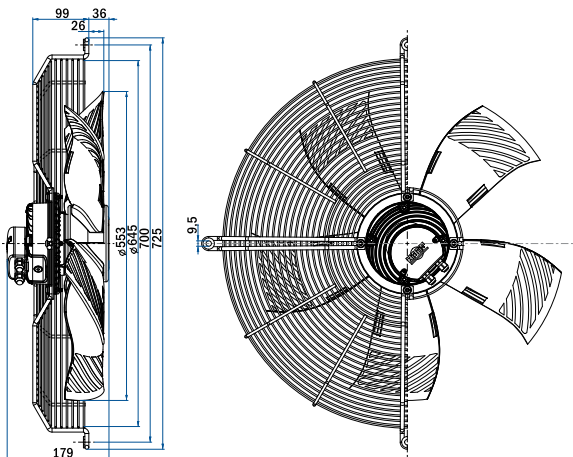
Compliant to standards

Page 6

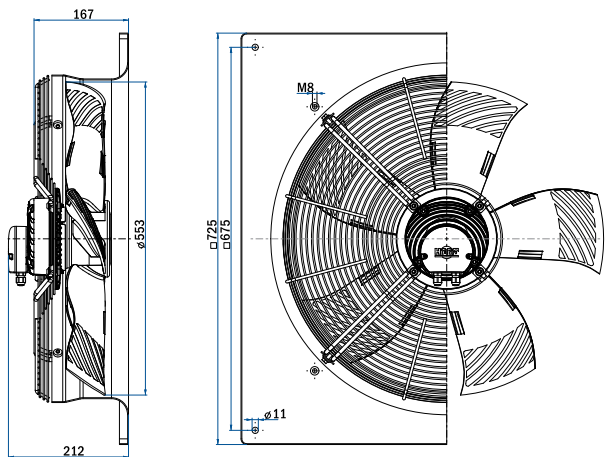
Dimensions and fan ordering information

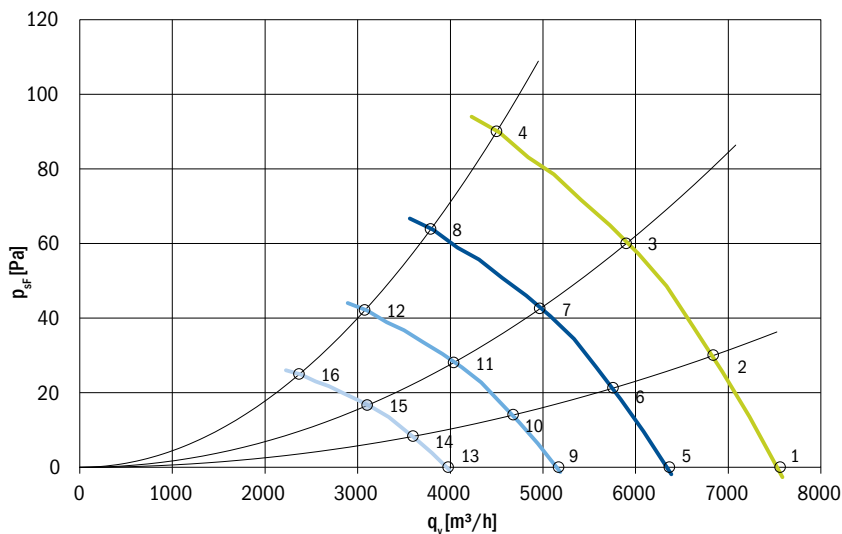


Type: R10R-56LPS-ES50B-04A10
Code: 0310-4-0031
Weight: 6.0 kg



Type: R10P-56LPS-ES50B-04A10
Code: 0310-4-0020
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:

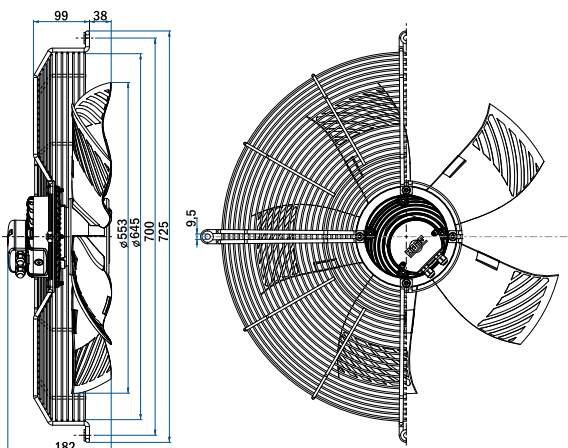
- measured on pressure side 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

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

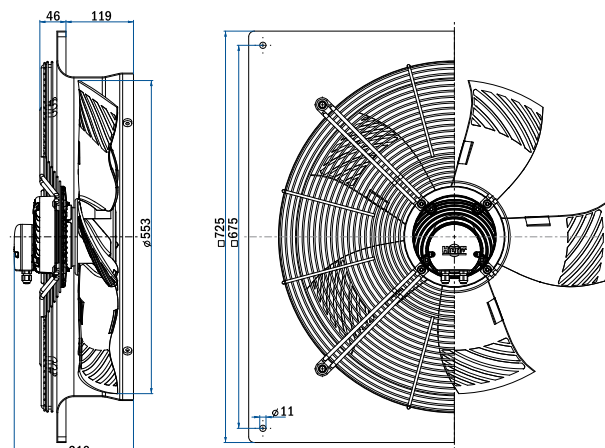
Definition of symbols

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-04A10
 Code: 0310-4-0032
 Weight: 6.0 kg

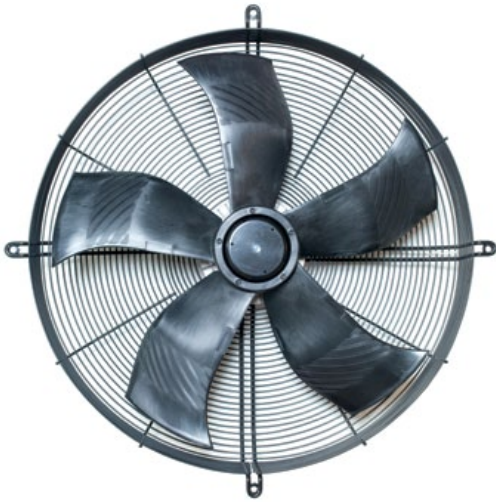


Airflow direction - blowing
 Type: R10P-56LPB-ES50B-04A10
 Code: 0310-4-0033
 Weight: 13.7 kg



Diameter:

630 mm



R10_-63LP_-ES50B-03A11

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	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 327/2010:

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:

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Compliant to standards

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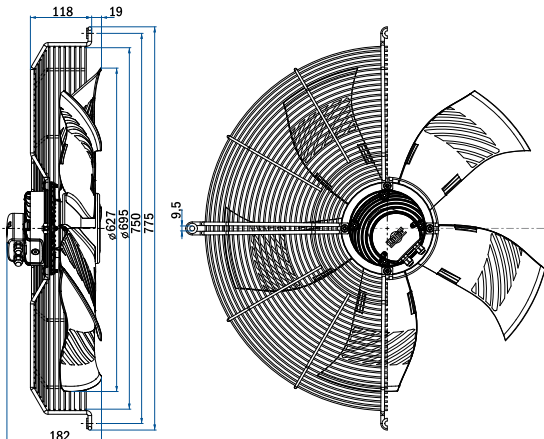
Dimensions and fan ordering information

Airflow direction - sucking

Type: R10R-63LPS-ES50B-03A11

Code: 0310-4-0013

Weight: 6.4 kg

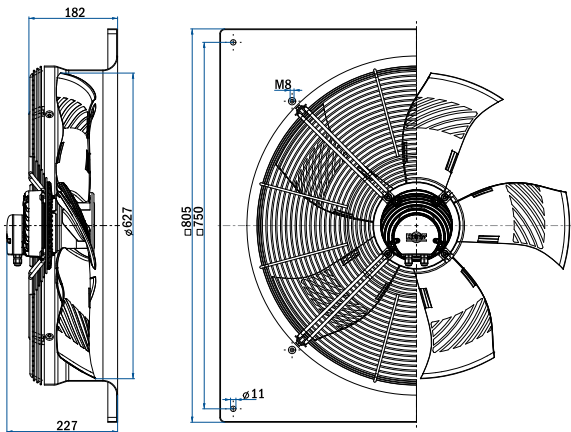


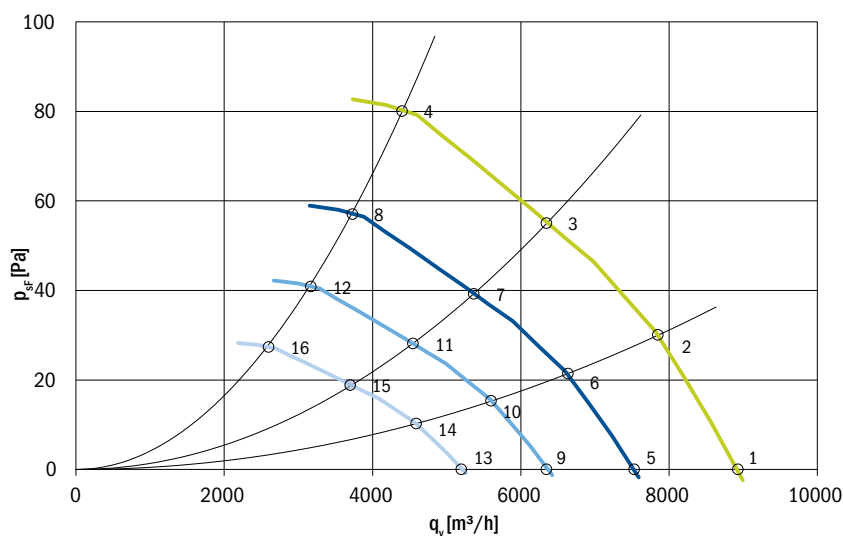
Airflow direction - sucking

Type: R10P-63LPS-ES50B-03A11

Code: 0310-4-0010

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	65
2	230	50	770	7850	30	240	1.61	65	65
3	230	50	770	6350	55	266	1.78	64	50
4	230	50	770	4400	80	274	1.82	71	65
5	230	50	650	7530	0	115	0.81	62	65
6	230	50	650	6640	21	136	0.95	60	65
7	230	50	650	5370	39	155	1.06	60	65
8	230	50	650	3730	57	146	1.02	67	65
9	230	50	550	6350	0	71	0.53	57	65
10	230	50	550	5600	15	82	0.60	56	65
11	230	50	550	4550	28	94	0.68	56	65
12	230	50	550	3170	41	89	0.65	62	65
13	230	50	450	5200	0	40	0.31	51	65
14	230	50	450	4590	10	46	0.35	51	65
15	230	50	450	3700	19	52	0.40	51	65
16	230	50	450	2600	27	50	0.39	57	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 1m from fan mounted in full bell mouth without guard grill
- measured according to ISO 3741

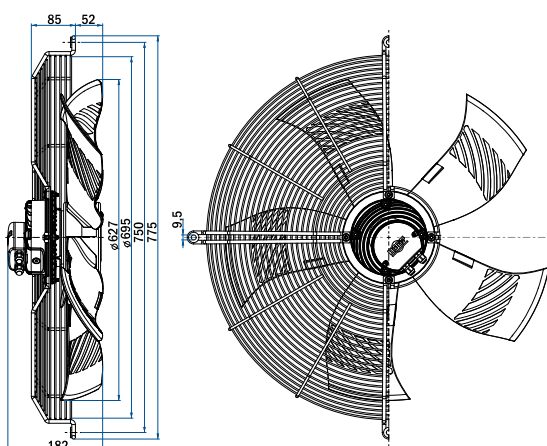
The values given may vary according to actual installation in the unit.

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

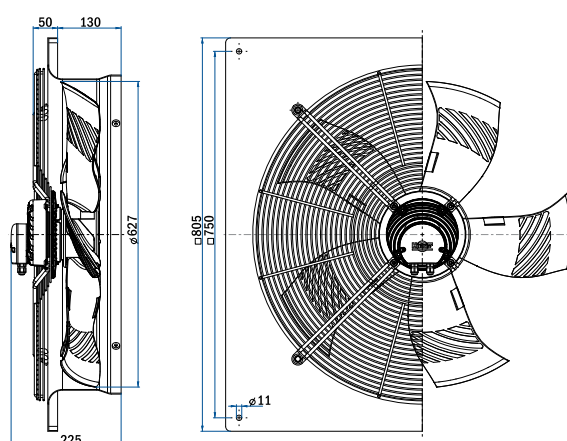
Airflow direction - blowing

Type: R10R-63LPB-ES50B-03A11
Code: 0310-4-0034
Weight: 6.4 kg



Airflow direction - blowing

Type: R10P-63LPB-ES50B-03A11
Code: 0310-4-0035
Weight: 15.2 kg



02

AC Axial fans - Sickled blades



EC AXIAL FANS

AC AXIAL FANS
SICKLED BLADESAC AXIAL FANS
PLASTIC BLADESAC AXIAL FANS
PADDLE BLADESAC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

CONNECTION DIAGRAM

AC axial & radial fans

■ Electrical connection and motor

AC Axial and radial 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.

The 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 customized solutions.

■ Motor connection

Mains connection is made via terminal box or outgoing connection cable as shown in dimensional drawings.

■ Terminal box and connection cable

Terminal boxes are made of shock-proof and weather-resistant plastics.

Heat and UV resistant halogen-free hose cables are used, marked by a color code or connection designations as labeled on to 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 tri phase products.

■ Speed controls

Hidria AC fans are suitable for operation with or without one of the Variable Speed Drive (VSD) units such as frequency converter, triac controller, soft start or autotransformer. When VSD is in use, special caution need to be taken to verify that temperature rise is in line with motor insulation class (B or H) limits and that EMC requirements of final appliance are met.

It is recommended to use Sine Wave Filter attached between 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 used VSD when applied to Hidria fans.

■ Installation and usage information

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

■ Materials and corrosion protection

Hidria AC Axial fan impellers are made of high-performance PA composite material, aluminum or steel. The impeller is pressed onto the rotor. Some axial fans have stamped steel or aluminum panel blades. This type of blades are riveted or screwed onto the rotors of the external rotor motor. The rotor and stator flange are made of hi-pressure die-casted seawater resistant aluminum alloys.

The fan nozzles are made of steel sheet and coated to meet resistance to corrosion as set by ISO 12944-2 class C3 (medium). Additional coating on request and at supplementary cost. The wire protection grills have a weather resistant plastic coating.

■ Operating conditions and product life

Safety

The fans may only be operated when they are installed as intended and when safety is ensured by safety equipment according to DIN EN 294 resp. ISO13852 (DIN EN ISO 12100) or by other protection measures.

Safety approvals

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

Condensation drain holes

Axial and radial fans are intended to be installed with rotor in horizontal position or with rotor at the bottom of the fan (connection box or cables on the top). The

lower of the condensation drain hole must be open when the fan is installed with the rotor at the bottom. With horizontal mounting position condensate can escape via the gap between stator and rotor. Installation with rotor at the top (connection box or cables at the bottom) is available only on request.

Operating mode

Continuous operation (S1).

Resistance to water, dust and moisture

Majority of axial fans are resistant to 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 between -30°C and $+70^{\circ}\text{C}$.
- Storage temperatures -40°C to $+80^{\circ}\text{C}$.

Product life

By utilizing lifetime maintenance free bearings, our axial fans are maintenance free for the entire life time of approximately 30-40.000 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 grilles, 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.

The guard grille results in a resistance to the conveyed airflow, which manifests itself in the pressure loss.

Axial fans with induction (AC) motors and sickled blades



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



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



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

Example of type key:

R13R-5630HA-6T2-7008

R13 External rotor motor type (R09, R13)

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

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

30H Type of blades (18H, 30H)

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

6 Number of motor poles

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

2 Number of motor speed

70 Motor stack height

08 Version of electrical construction

Diameter:

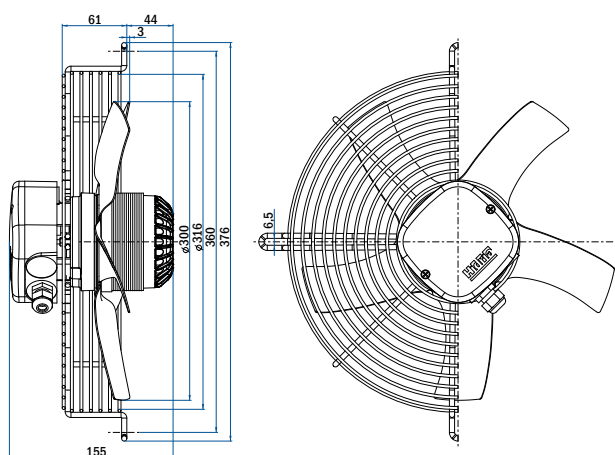
300 mm

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	

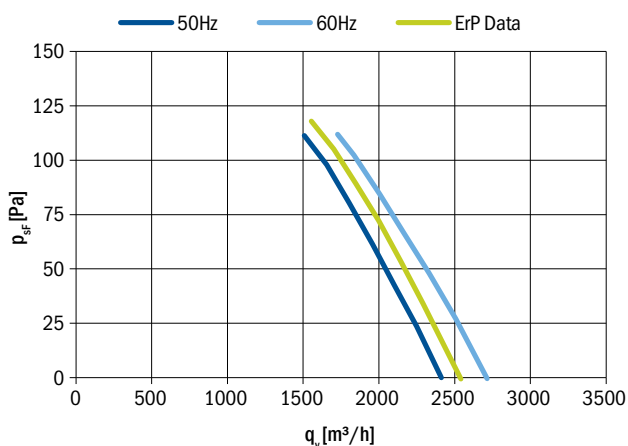
Nominal data according to standard EN 60335:

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

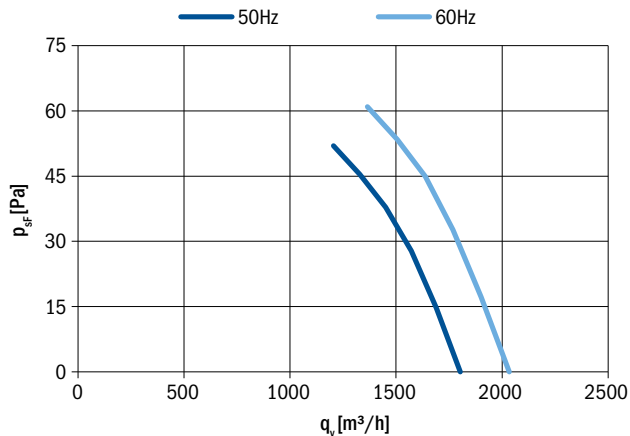
Connection diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

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.**

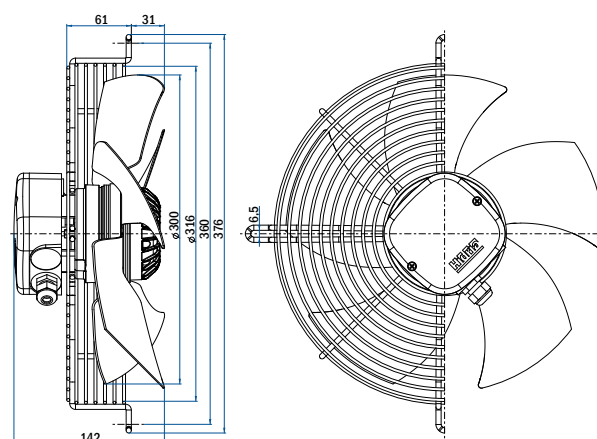
Power input lower than 125 W.

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 diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

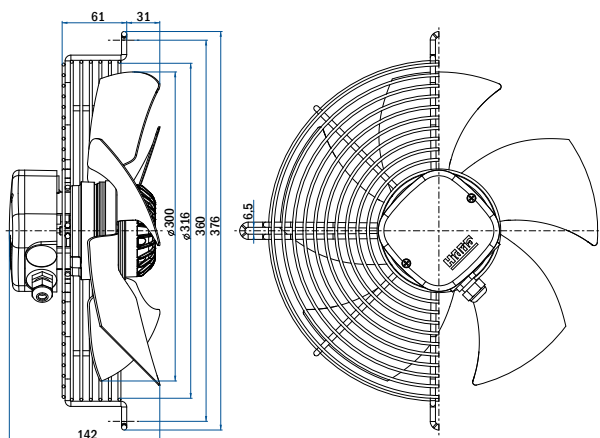
300 mm

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	On request	



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:

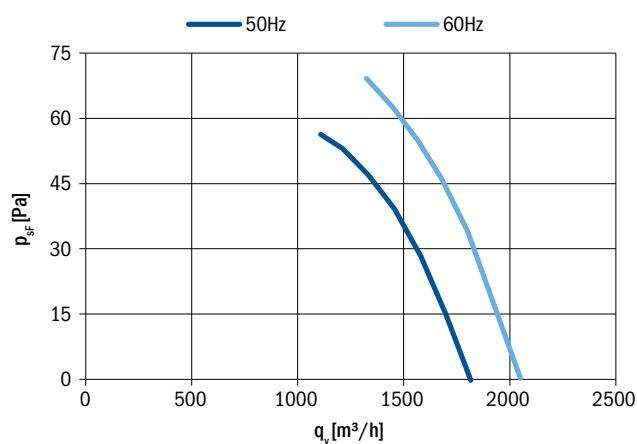
Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	75/80 W
Rated current	0.20/0.35/0.17/0.30 A
Rated speed	1370/1550 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	67/72 dB (A)
Connection	terminal box
Insulation class	155
Protection 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

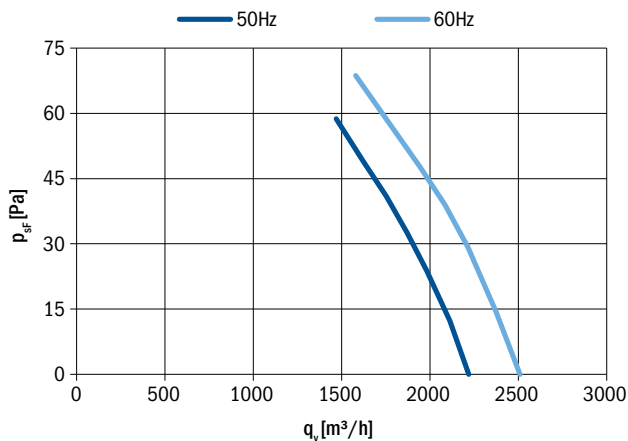
Connection diagram: Sucking	0301-1-0049	Page 146
Blowing	0301-1-0049	
Accessories		Page 134
Compliant to standards		Page 28

R09_-3130H_-4M-3509**Diameter:****315 mm****Nominal data according to standard EN 60335:**

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.**

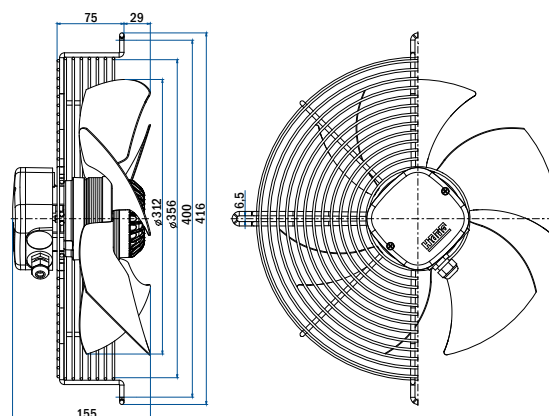
Power input lower than 125 W.

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 diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

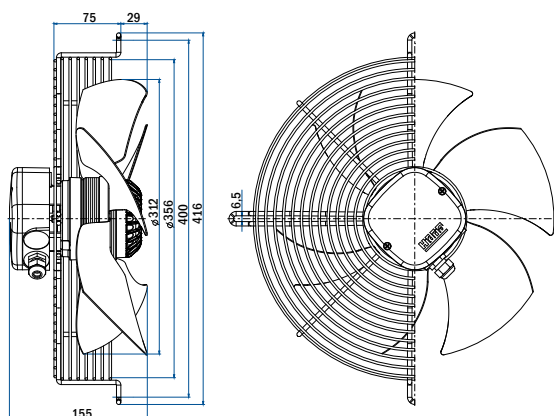
315 mm

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	

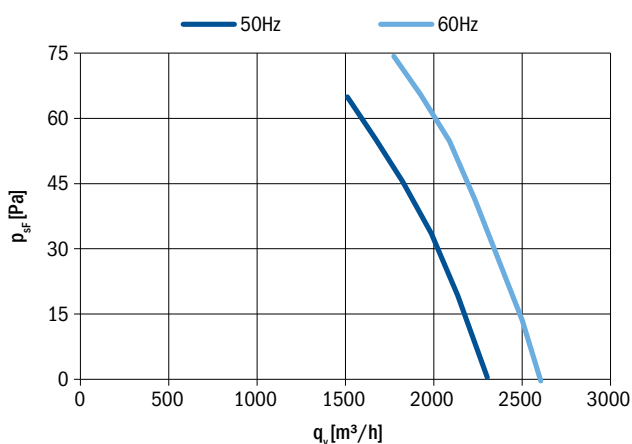
Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	100/120 W
Rated current	0.23/0.41/0.22/0.39 A
Rated speed	1340/1490 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	69/73 dB (A)
Connection	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

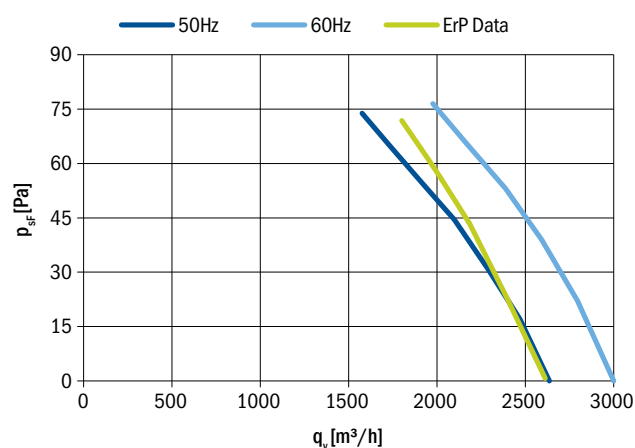
Connection diagram: Sucking	0301-1-0049	Page 146
Blowing	0301-1-0049	
Accessories		Page 134
Compliant to standards		Page 28

R09_-3330H_-4M-3542**Diameter:****330 mm****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	0.55/0.75 A
Rated speed	1350/1500 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °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:

Overall efficiency	25.9 %
Measurement category	A
Efficiency category	static
Efficiency grade N	37.8
Variable speed drive	N0
Power input	133 W
Air flow	1800 m³/h
Pressure drop	72 Pa
Speed	1350 RPM
Specific ratio	1.00

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill

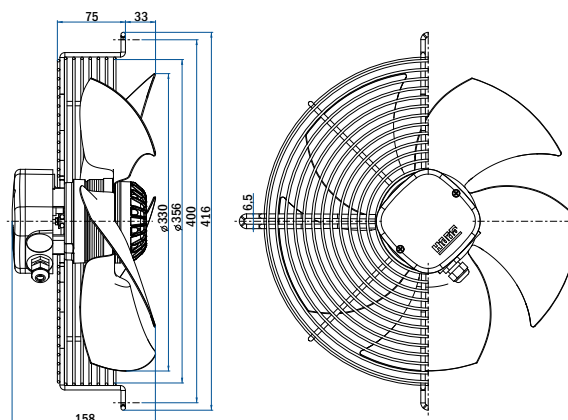
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-3330HA-4M-3542	0309-4-1001	3.4
Blowing	R09R-3330HP-4M-3542	On request	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09P-3330HA-4M-3542	On request	
Blowing	R09P-3330HP-4M-3542	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3330HA-4M-3542	On request	
Blowing	R09E-3330HP-4M-3542	On request	

Diameter:

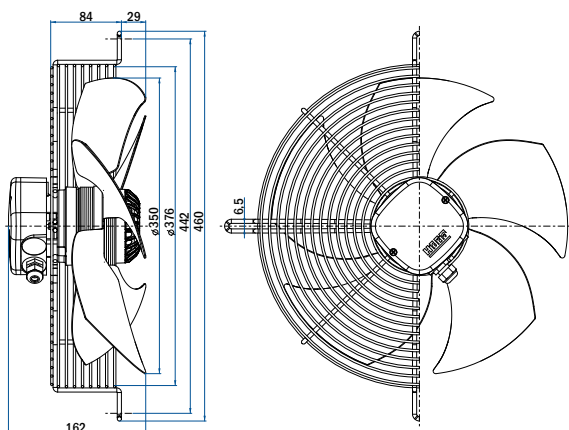
350 mm

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

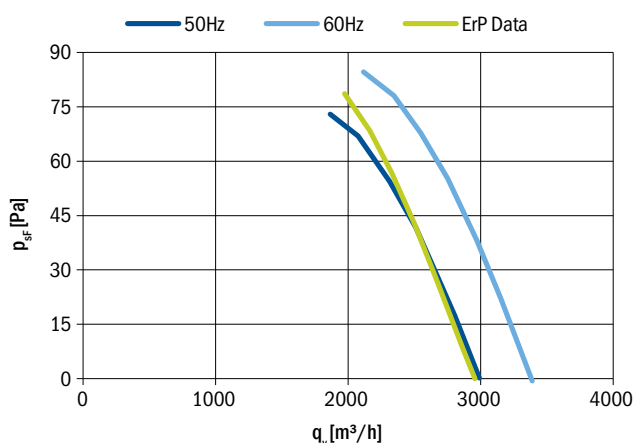
Airflow Direction	Type	Code	Weight (kg)
Sucking	R09E-3530HA-4M-4237	On request	
Blowing	R09E-3530HP-4M-4237	On request	

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 diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

R09_-3530H_-4T-4258

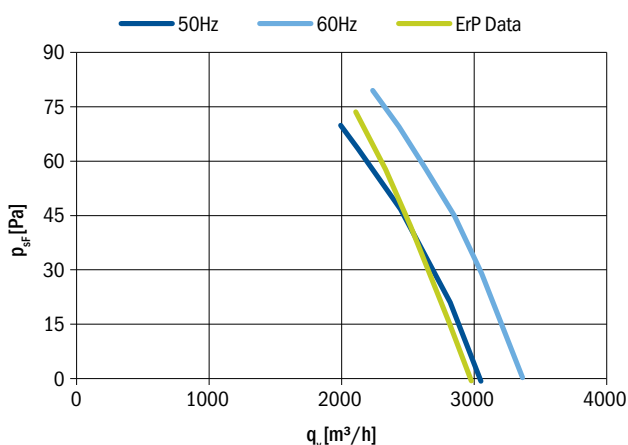
Diameter:

350 mm

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400/230 V
Frequency	50/60 Hz
Rated power input	135/170 W
Rated current	0.30/0.53/0.30/0.53 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

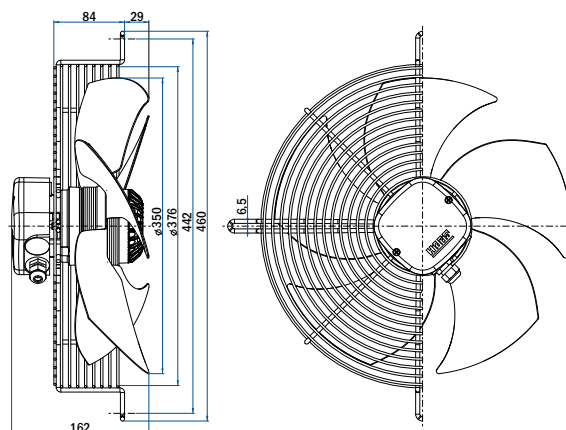


Fan characteristic measured in full bell mouth with guard grill
ErP characteristic measured in full bell mouth without guard grill



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	

General notes

Connection diagram: Sucking	0301-1-0049	Page 146
Blowing	0301-1-0049	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

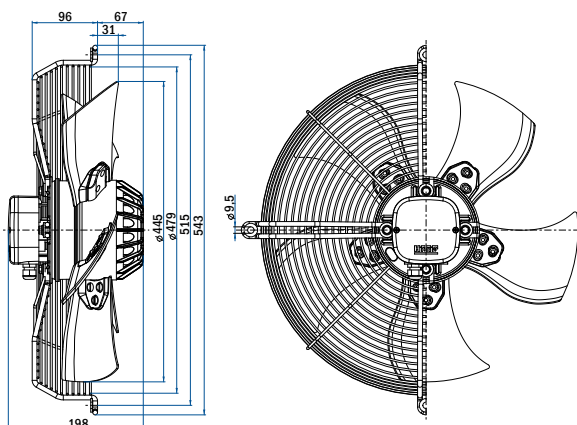
450 mm

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	

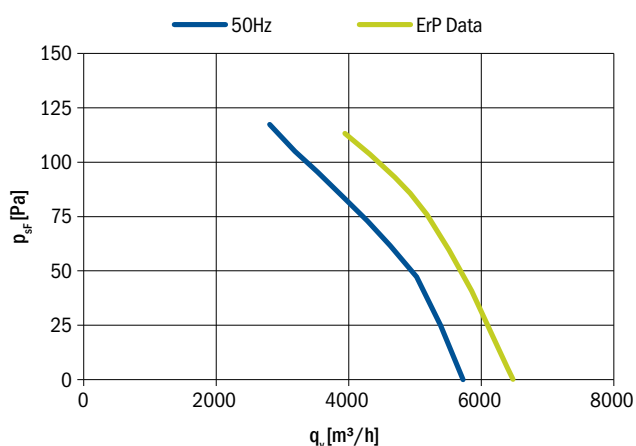
Nominal data according to standard EN 60335:

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	N0
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

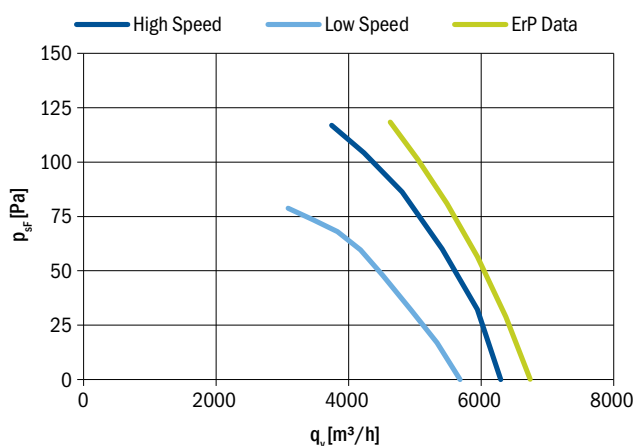
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

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

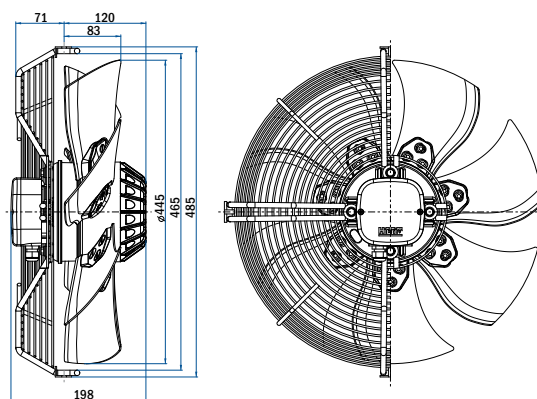
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

**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

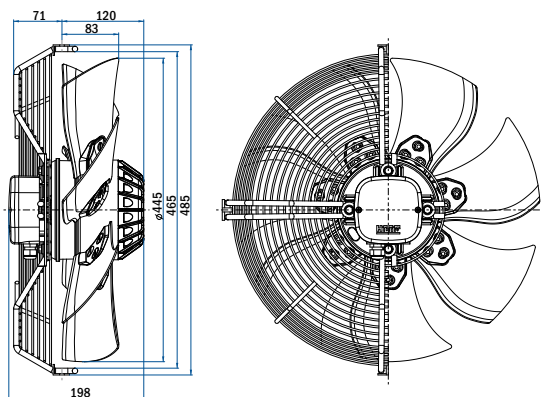


Nominal data according to standard EN 60335:

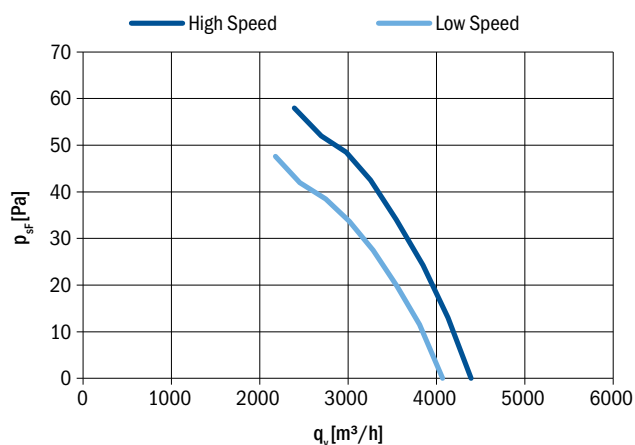
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	170/105 W
Rated current	0.70/0.23 A
Rated speed	940/840 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	67/62 dB (A)
Connection	terminal box
Insulation class	155
Protection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

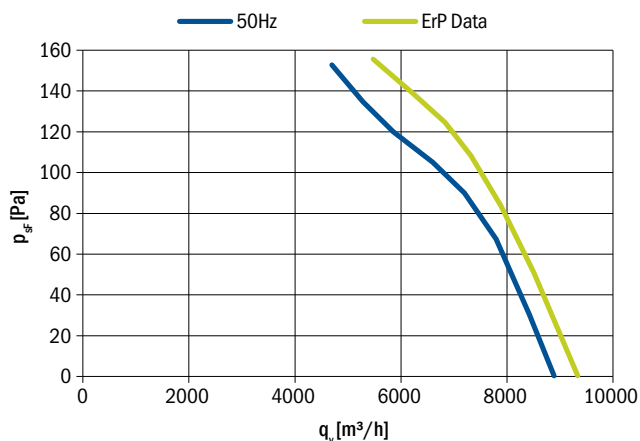
Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

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

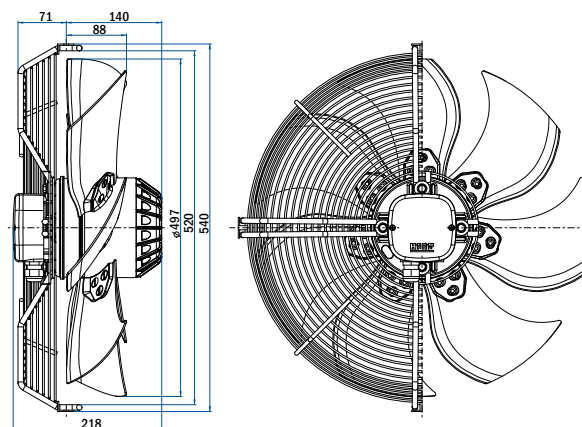
Fan characteristic measured in short bell mouth with guard grill
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0035	Page 146
Blowing	0301-1-0029	
Accessories		Page 134
Compliant to standards		Page 28

**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:

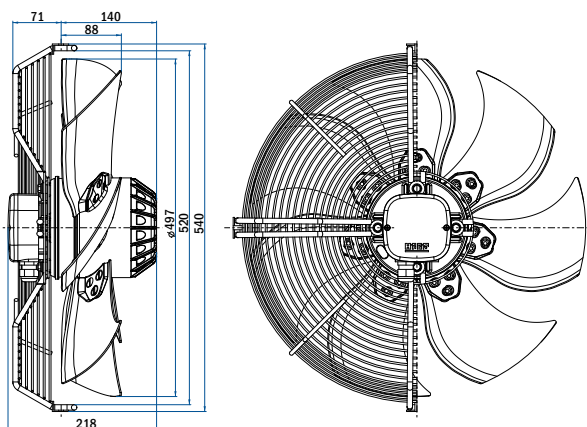
500 mm

R13_-5030H_-4T2-7063



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-4T2-7063	0313-4-1038	12.5
Blowing	R13R-5030HP-4T2-7063	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5030HA-4T2-7063	0313-4-1028	18.0
Blowing	R13P-5030HP-4T2-7063	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-4T2-7063	0313-4-1068	10.1
Blowing	R13E-5030HP-4T2-7063	On request	

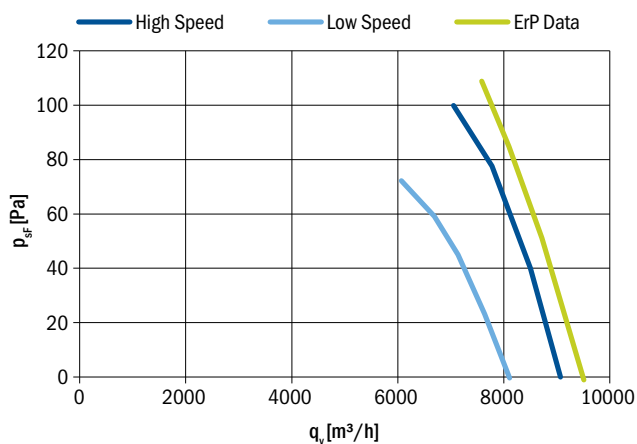
Nominal data according to standard EN 60335:

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	800/540 W
Rated current	1.90/0.95 A
Rated speed	1390/1200 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	45 °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	31.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	37.8
Variable speed drive	NO
Power input	828 W
Air flow	6489 m³/h
Pressure drop	150 Pa
Speed	1369 RPM
Specific ratio	1.00

Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill

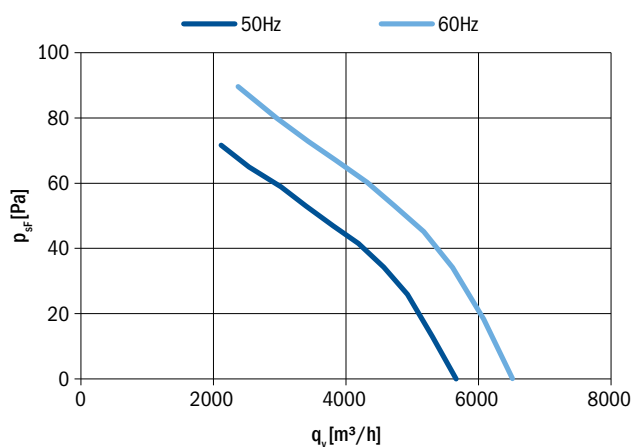
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

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

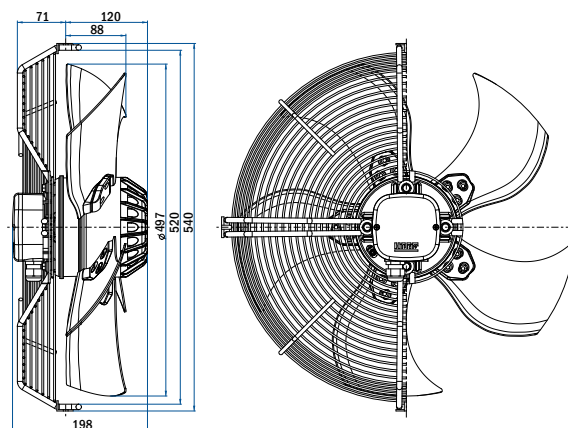
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	245/320 W
Rated current	1.10/1.35 A
Rated speed	900/1030 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	72/76 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155
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 diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

500 mm

R13_-5030H_-6M-5071

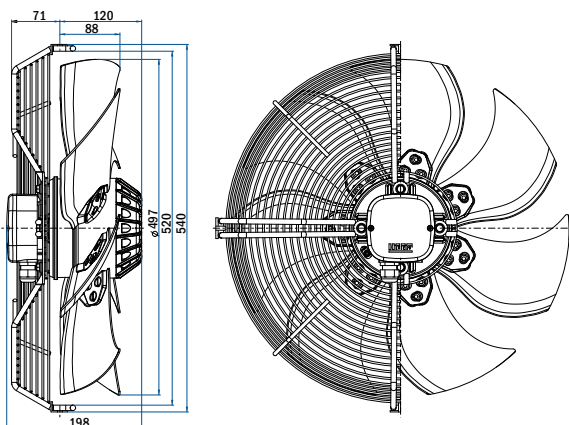


Nominal data according to standard EN 60335:

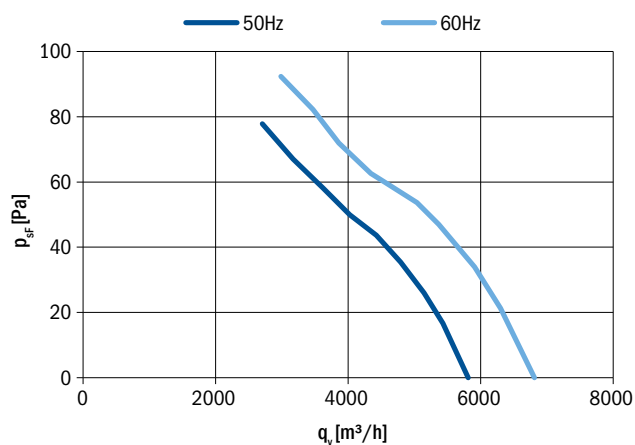
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	280/370 W
Rated current	1.20/1.50 A
Rated speed	890/1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	75/78 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155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

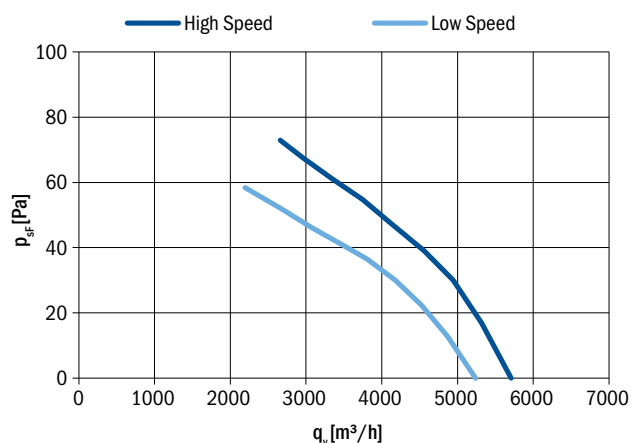
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030HA-6M-5071	0313-4-1101	8.0
Blowing	R13E-5030HP-6M-5071	On request	

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

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

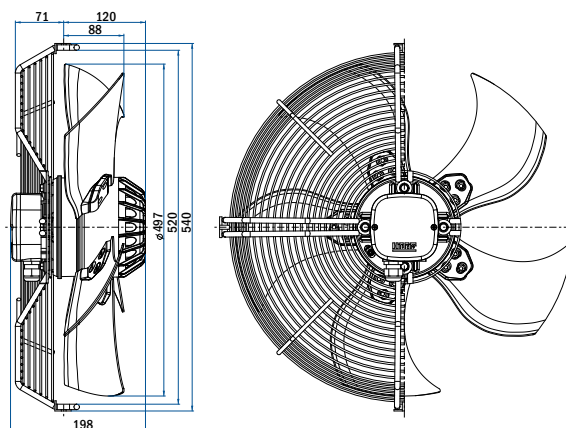
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	210/150 W
Rated current	0.60/0.27 A
Rated speed	960/880 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	72/70 dB (A)
Connection	terminal box
Insulation class	155
Protection 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 diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

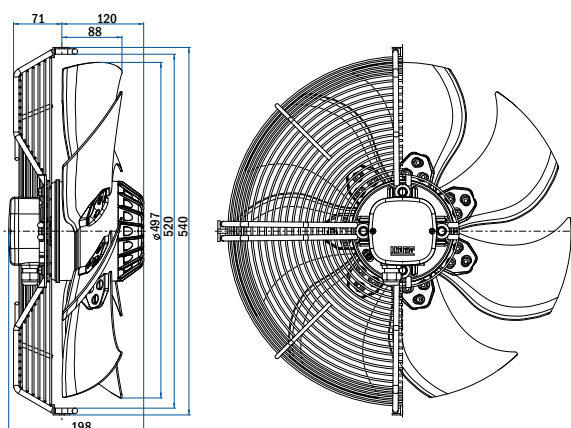
500 mm

R13_-5030H_-6T2-5065



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5030HA-6T2-5065	0303-4-1086	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	

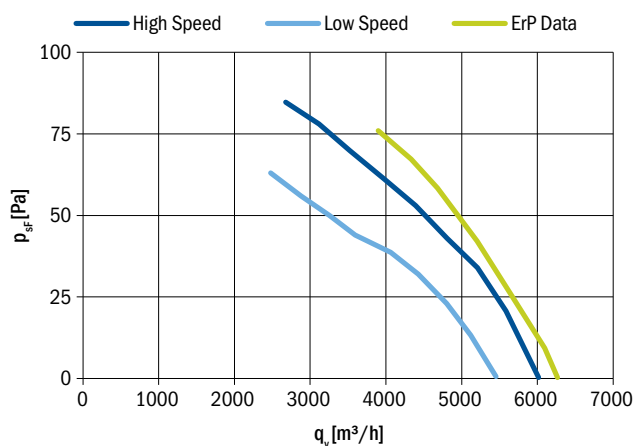
Nominal data according to standard EN 60335:

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

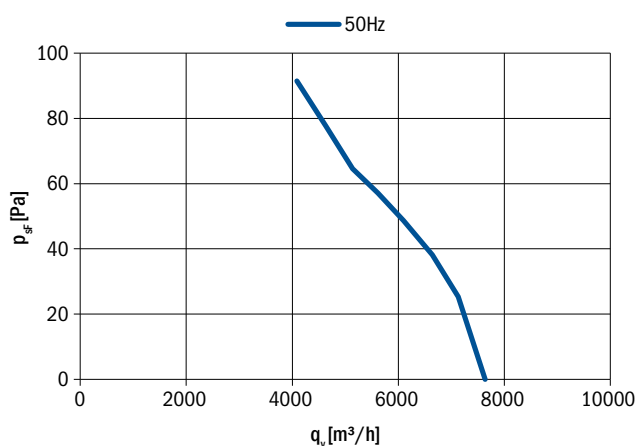
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

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

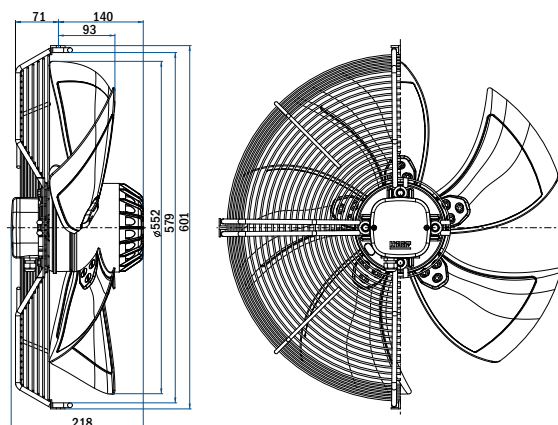
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	420 W
Rated current	1.90 A
Rated speed	865 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	76 dB (A)
Condensator	12.5 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	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	0309-4-1031	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 diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

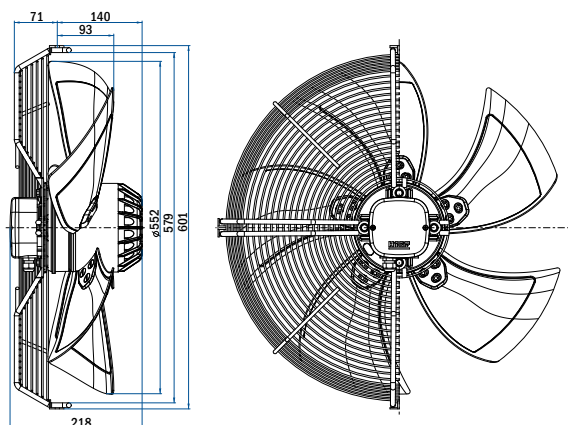
560 mm

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	On request	



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

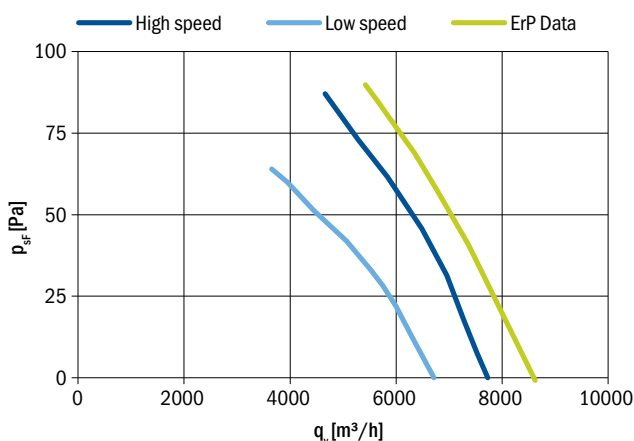
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5630HA-6T2-7008	0313-4-1045	10.5
Blowing	R13E-5630HP-6T2-7008	On request	

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

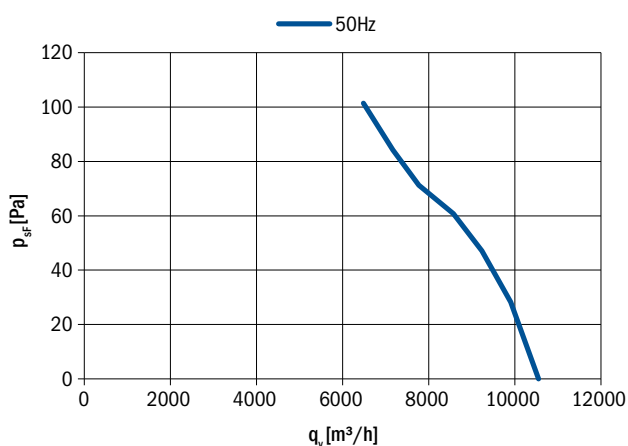
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

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

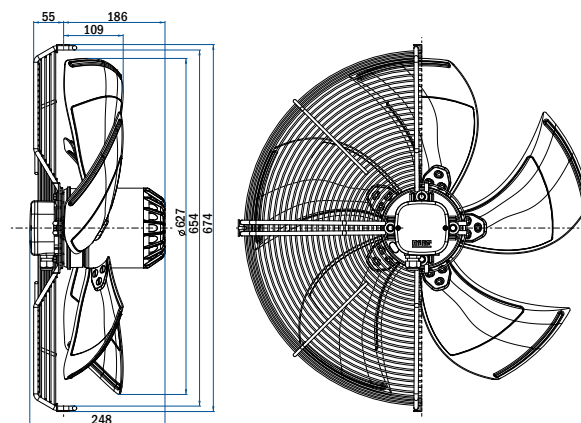
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	680 W
Rated current	3.10 A
Rated speed	890 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	77 dB (A)
Condensator	18 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

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	0309-4-1031	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 diagram: Sucking	0301-1-0035	Page 146
Blowing	0301-1-0029	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

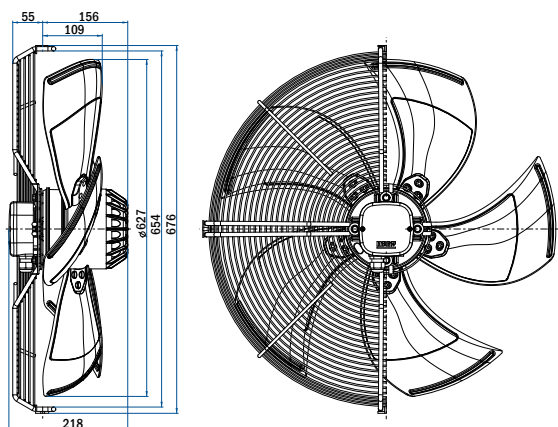
630 mm

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	On request	



Fan with plate

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

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	On request	

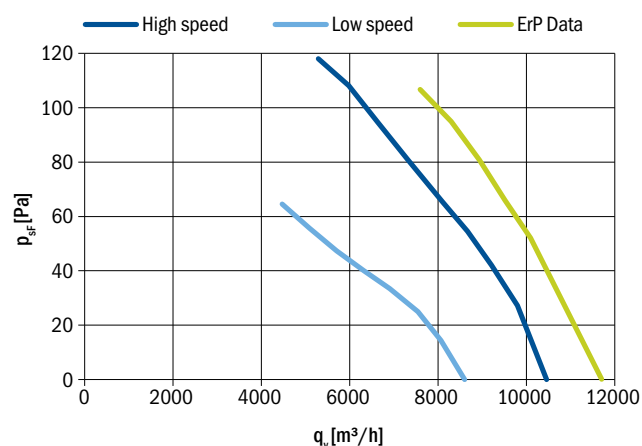
Nominal data according to standard EN 60335:

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	31.8 %
Measurement category	A
Efficiency category	static
Efficiency grade N	39.2
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

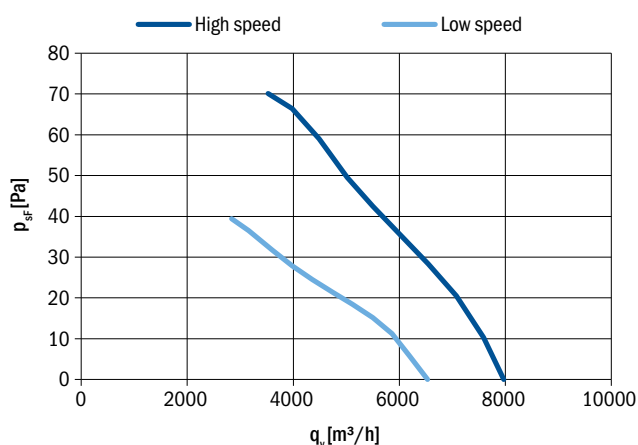
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

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

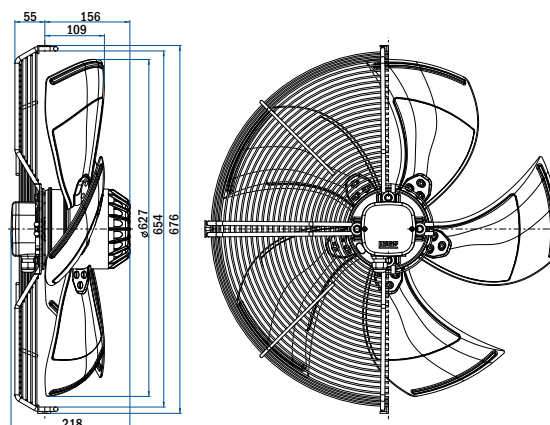
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	280/175 W
Rated current	0.68/0.30 A
Rated speed	650/510 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	71/66 dB (A)
Connection	terminal box
Insulation class	155
Protection 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 diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

630 mm

R13_-6330H_-12T2-7051



Nominal data according to standard EN 60335:

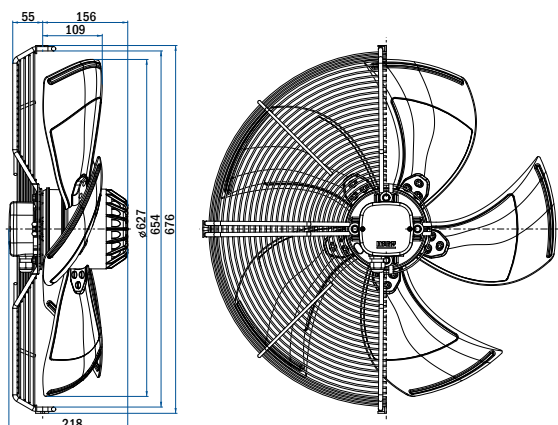
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	112/58 W
Rated current	0.33/0.13 A
Rated speed	430/330 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	63/53 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Is not subject to the EU regulation 327/2011.

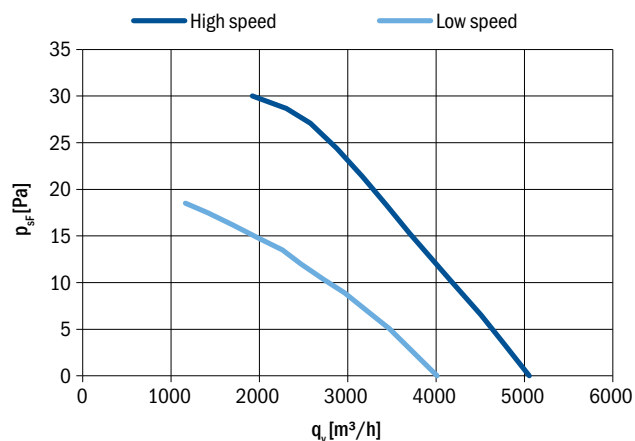
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330HA-12T2-7051	0313-4-1041	14.5
Blowing	R13R-6330HP-12T2-7051	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-6330HA-12T2-7051	0313-4-1037	23.3
Blowing	R13P-6330HP-12T2-7051	On request	

Fan without guard grill

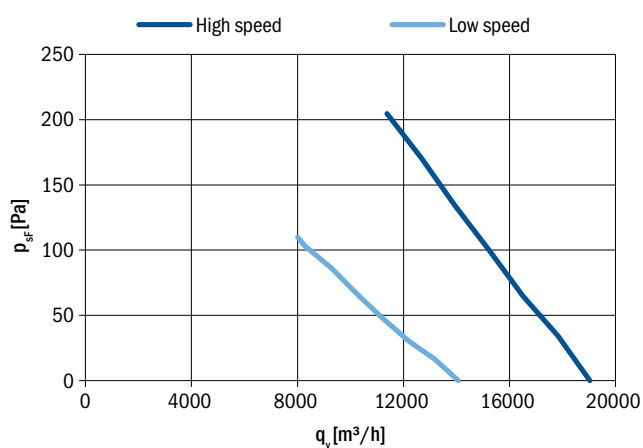
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6330HA-12T2-7051	0313-4-1044	10.8
Blowing	R13E-6330HP-12T2-7051	On request	

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

R18_-6330H_-4T2-X003**Diameter:****630 mm****Nominal data according to standard EN 60335:**

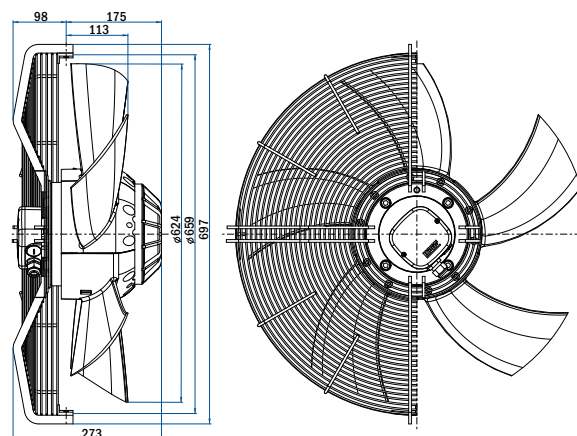
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	2350/1360 W
Rated current	4.65/2.75 A
Rated speed	1360/1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	89/83 dB (A)
Connection	terminal box
Insulation class	155
Protection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

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18R-6330HA-4T2-X003	0318-4-1014	30.5

**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 diagram	0301-1-0031	Page 147
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

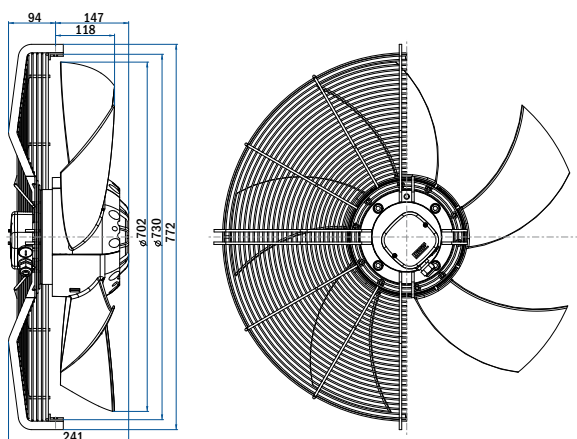
710 mm

R18_-7130H_-6T2-7502



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

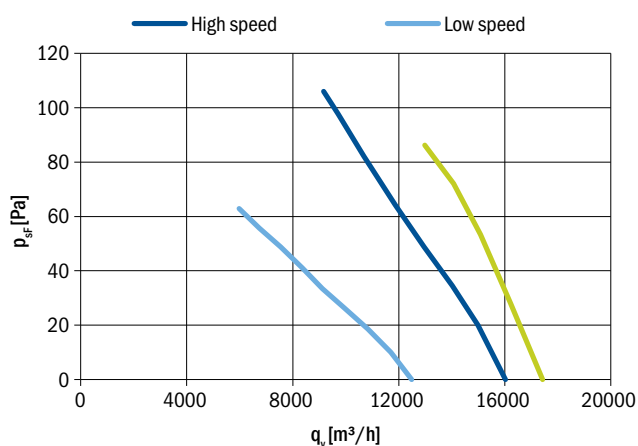
Nominal data according to standard EN 60335:

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

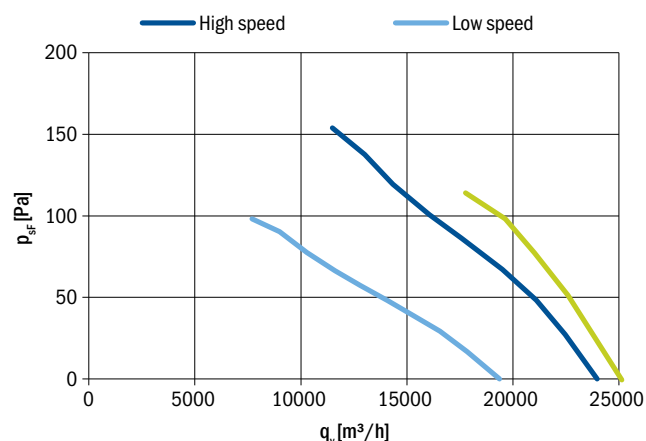
Connection diagram	0301-1-0031	Page 147
Accessories		Page 134
Compliant to standards		Page 28

R18_-8030H_-6T2-X004**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	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

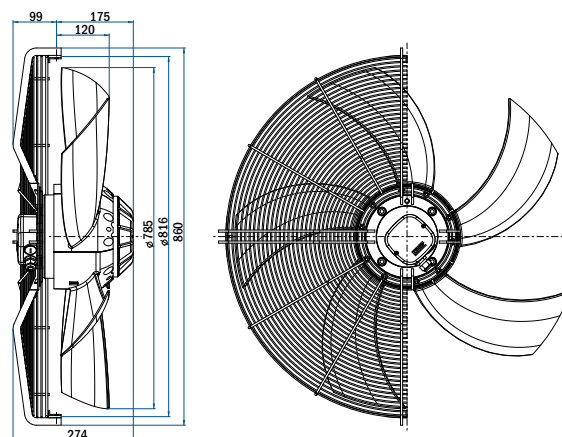
Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill

ErP characteristic measured in full bell mouth without guard grill

**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

General notes

Connection diagram	0301-1-0031	Page 147
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

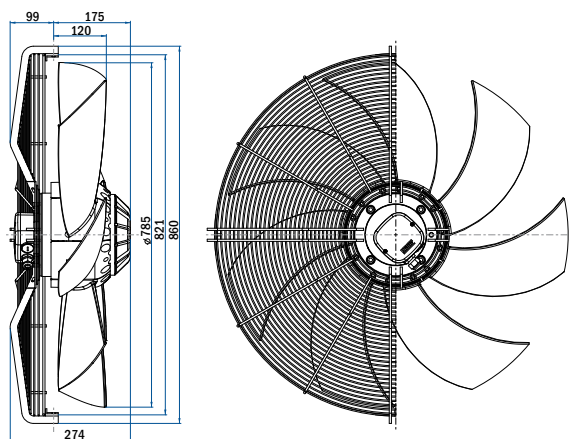
800 mm

R18_-8030H_-6T2-X001



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

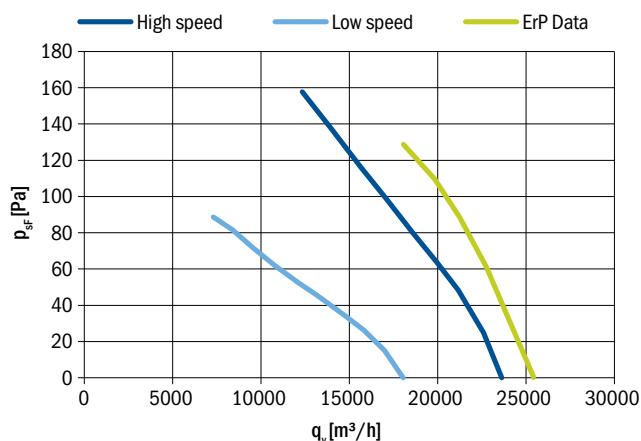
Nominal data according to standard EN 60335:

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

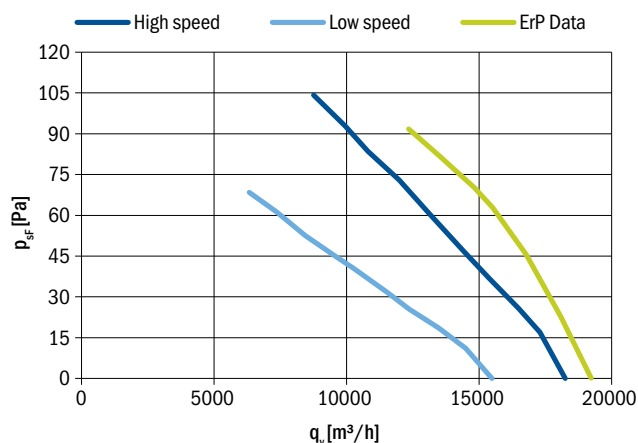
Connection diagram	0301-1-0031	Page 147
Accessories		Page 134
Compliant to standards		Page 28

R18_-8030H_-8T2-X000**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	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

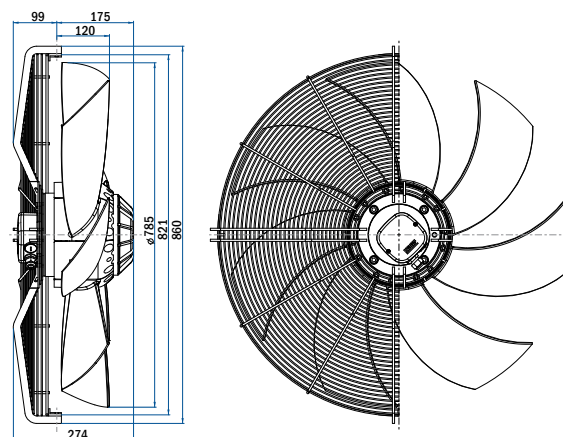
Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill

ErP characteristic measured in full bell mouth without guard grill

**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

General notes

Connection diagram	0301-1-0031	Page 147
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

800 mm

R18_-8030H_-12T2-7505

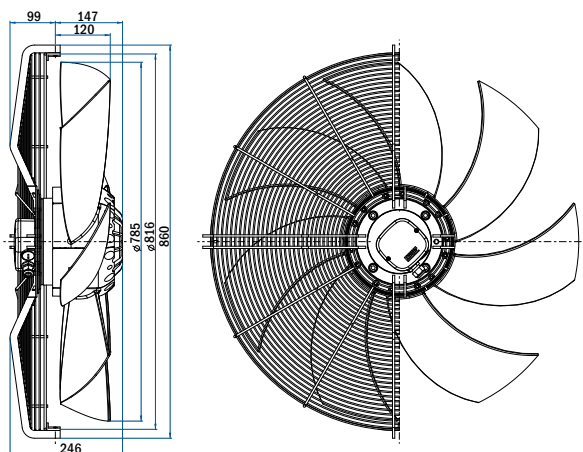


Nominal data according to standard EN 60335:

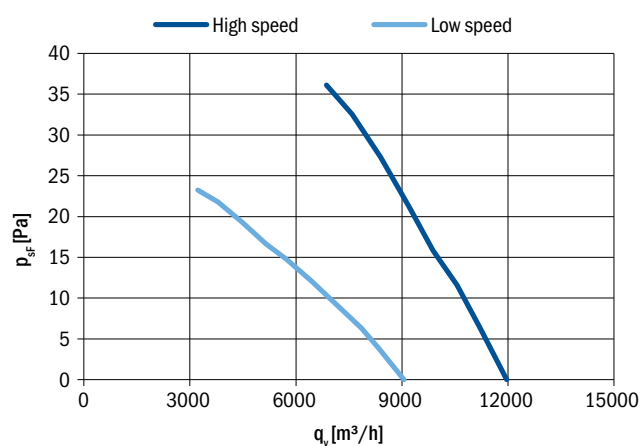
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	330/170 W
Rated current	1.20/0.50 A
Rated speed	450/320 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	66/58 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18R-8030HA-12T2-7505	0318-4-0017	34.8



Aerodynamic characteristic



Fan characteristic measured in full bell mouth with guard grill

Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R18P-8030HA-12T2-7505	0318-4-0032	47.7

Fan without guard grill

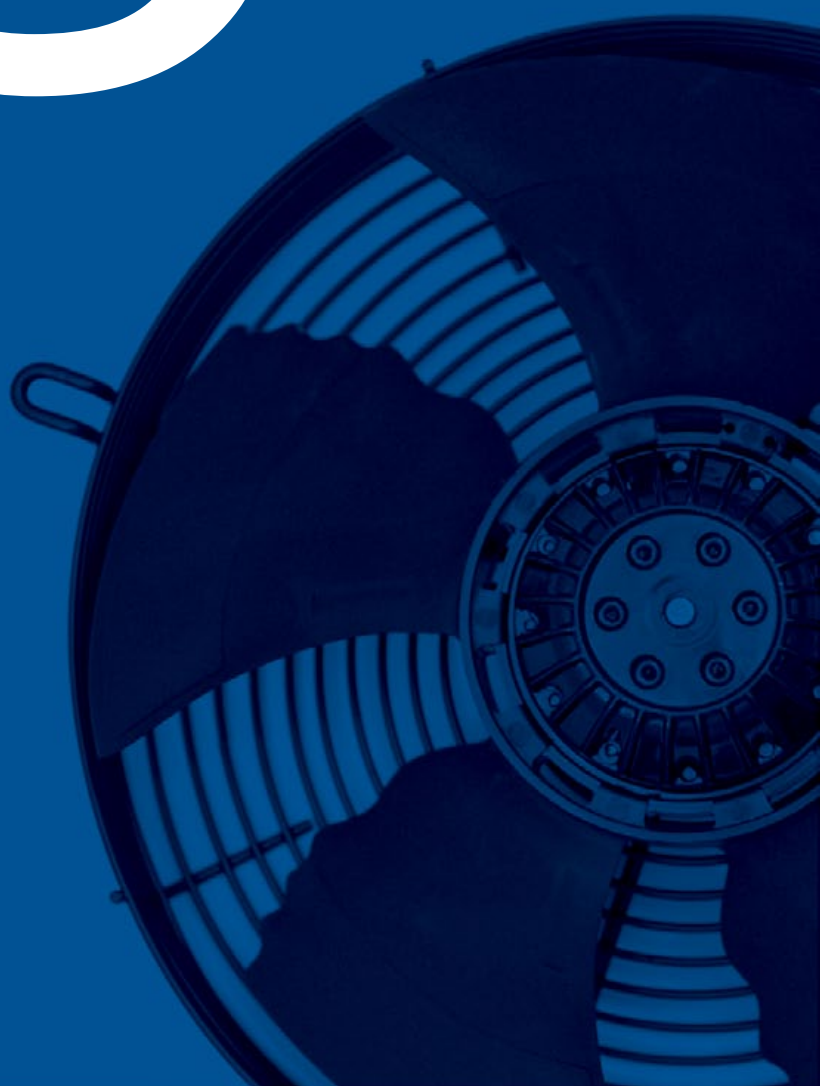
Airflow Direction	Type	Code	Weight (kg)
Sucking	R18E-8030HA-12T2-7505	0318-4-0033	29.0

General notes

Connection diagram	0301-1-0031	Page 147
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Compliant to standards		Page 28

EC AXIAL FANS
AC AXIAL FANS SICKLED BLADES
AC AXIAL FANS PLASTIC BLADES
AC AXIAL FANS PADDLE BLADES
AC RADIAL FANS BACKWARD CURVED BLADES
ACCESSORIES
CONNECTION DIAGRAM

03



AC Axial fans Plastic blades

EC AXIAL FANS

AC AXIAL FANS
SICKLED BLADES

AC AXIAL FANS
PLASTIC BLADES

AC AXIAL FANS
PADDLE BLADES

AC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

CONNECTION DIAGRAMS

Axial fans with induction (AC) motors and plastic blades



Plastic blades (SP)
Diameter: 300 mm



Plastic blades (AP)
Diameters: 400 – 450 mm



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

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:

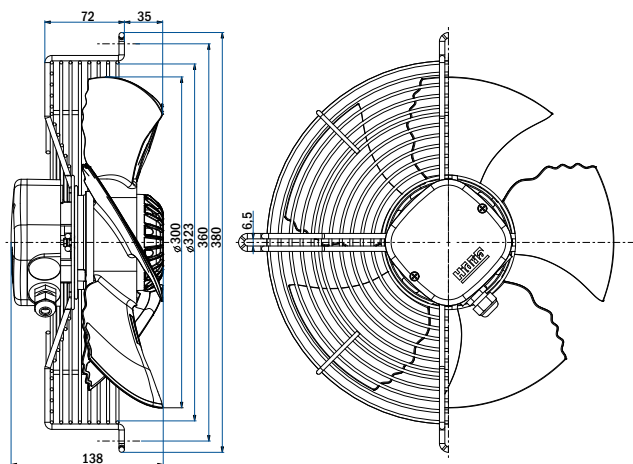
300 mm

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	



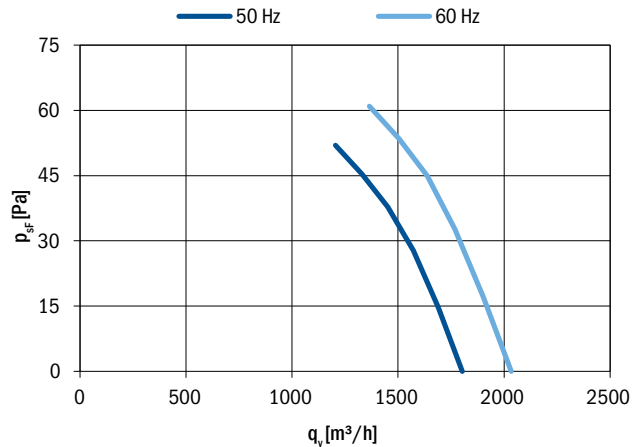
Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	65/90 W
Rated current	0.30/0.40 A
Rated speed	1400/1500 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	65/70 dB (A)
Condensator	2 µF/450 V
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

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	

General notes

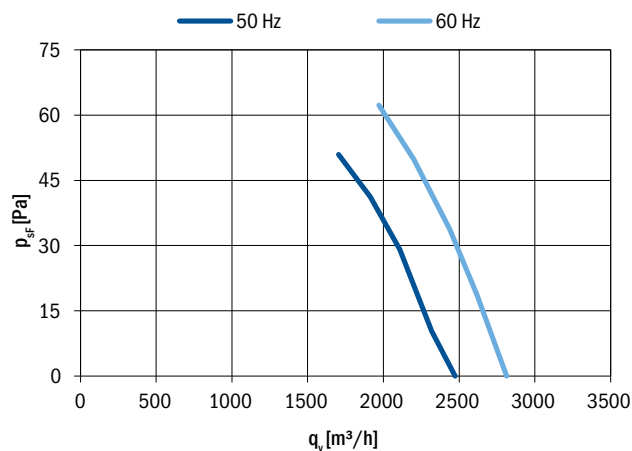
Connection diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

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.**

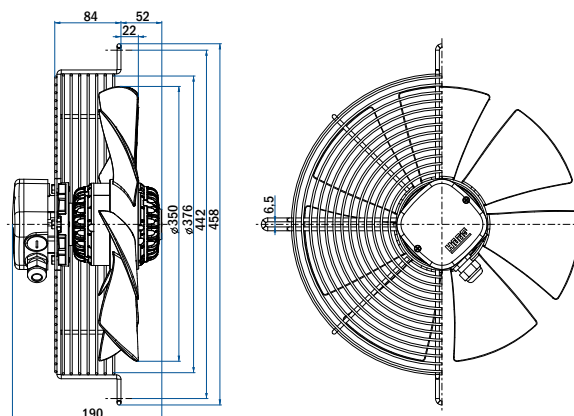
Power input lower than 125 W.

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 diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

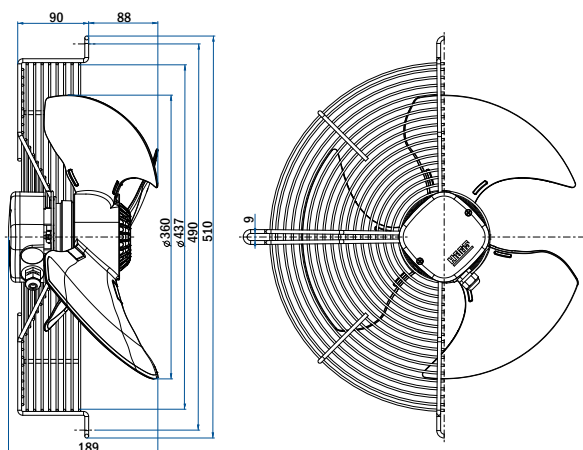
360 mm

R09_-36LP_-6M-4249



Fan with guard grill

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



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	

Nominal data according to standard EN 60335:

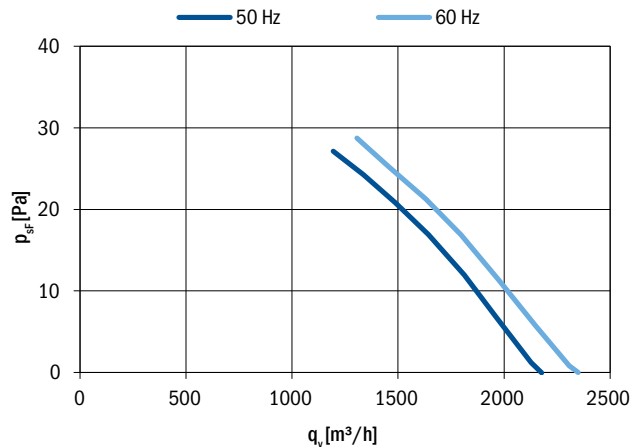
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	65/70 W
Rated current	0.30/0.32 A
Rated speed	830/900 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	52 / 55 dB (A)
Condensator	1.5 µF/450 V
Connection	terminal box
Insulation class	155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

General notes

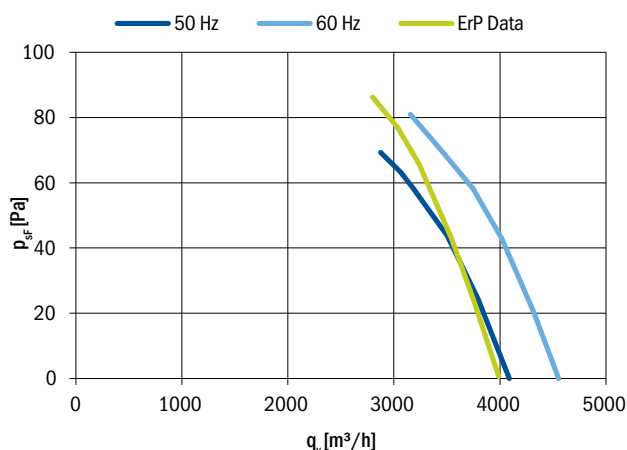
Connection diagram	0301-1-0044	Page 145
Accessories		Page 134
Compliant to standards		Page 28

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

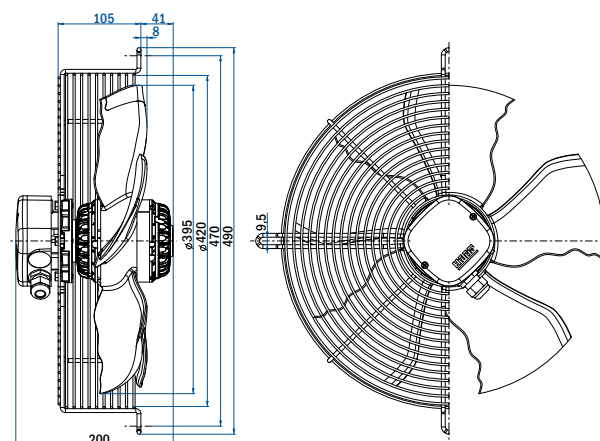
ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

**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-35KPP-4M-3808	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-40LPB-4M-5150	On request	
Blowing	R11E-40LPB-4M-5150	On request	

Diameter:

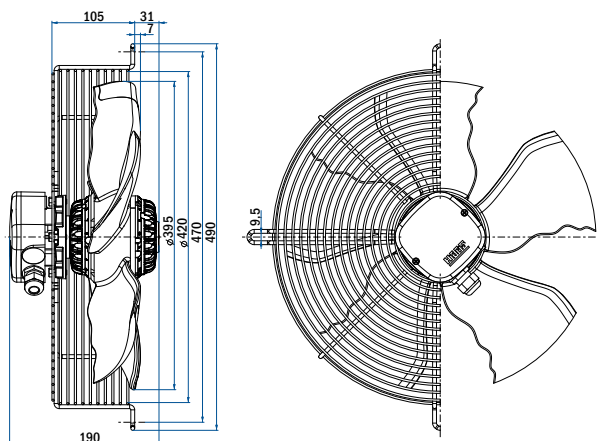
400 mm

R11_-40LP_-6M-3806



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-40LPS-6M-3806	On request	
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	

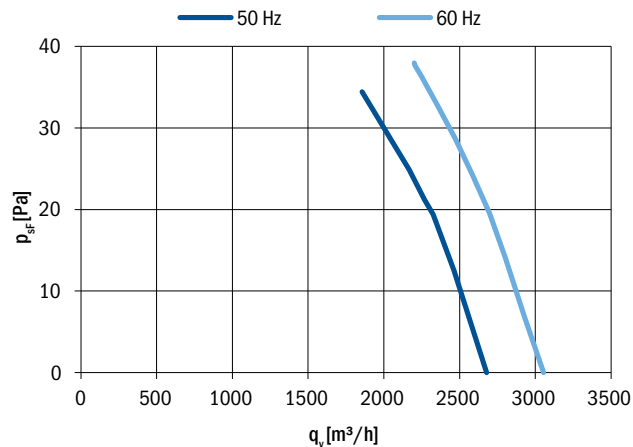
Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	85/110 W
Rated current	0.38/0.48 A
Rated speed	870/980 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	
Condensator	3.15 µF/450 V
Connection	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 diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

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

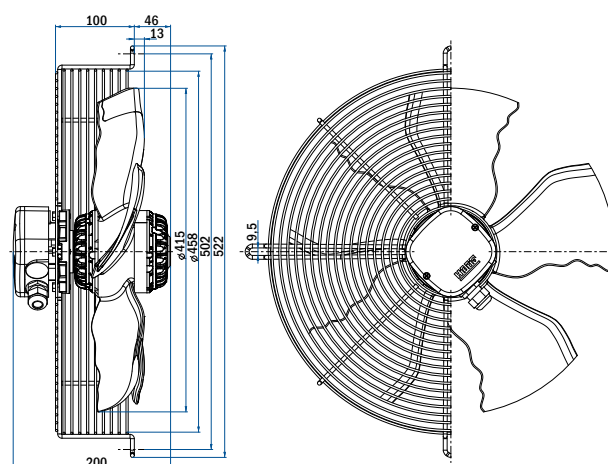
ErP data according to EU regulation 327/2011:

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

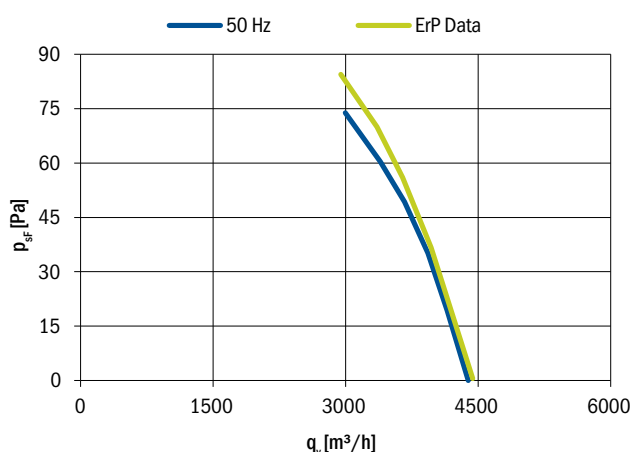


Fan with guard grill

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



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 diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

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:

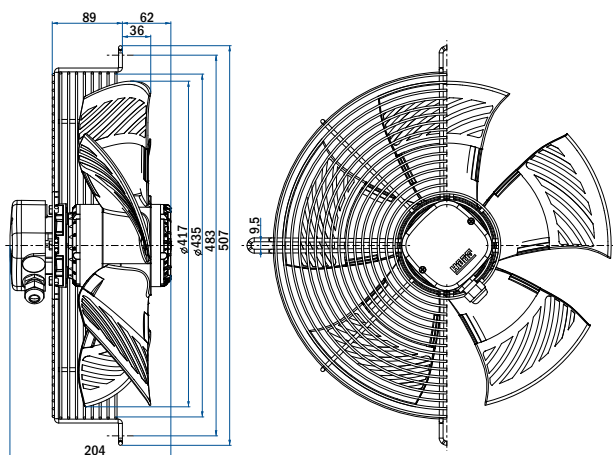
420 mm

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:

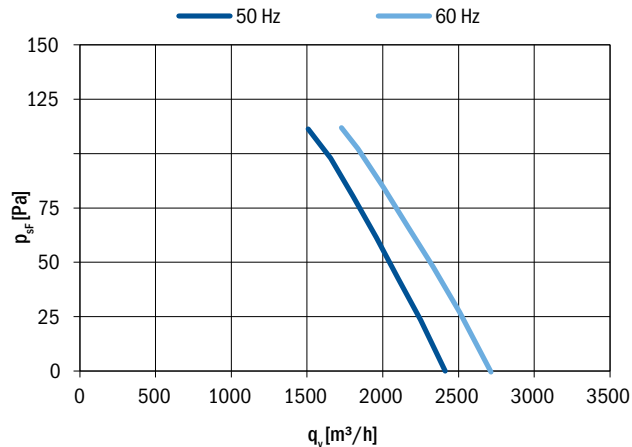
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	120/165 W
Rated current	0.52/0.72 A
Rated speed	880/900 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/55 °C
Sound power level A weighted	
Condensator	3.15 µF/450 V
Connection	terminal box
Insulation class	155
Protection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

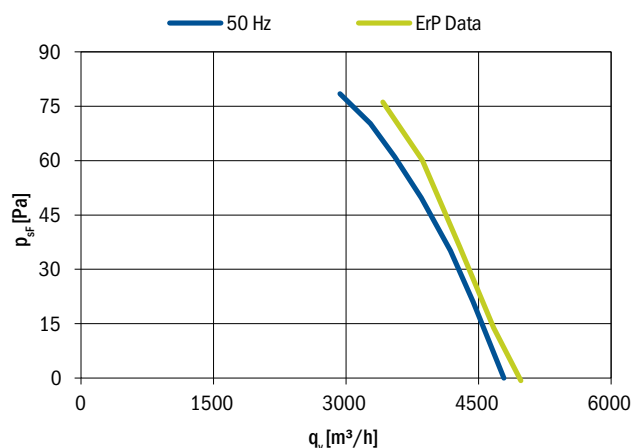
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

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

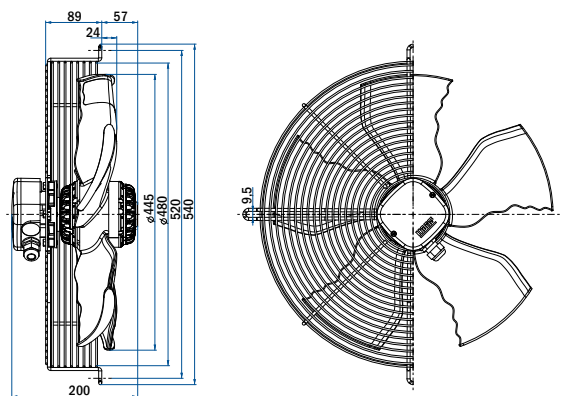
Fan characteristic measured in short bell mouth with guard grill
 ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

**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

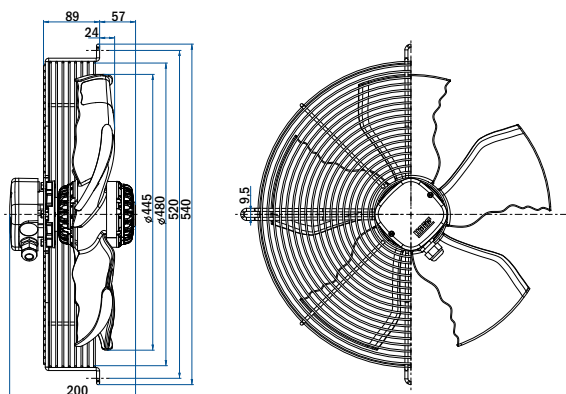


Nominal data according to standard EN 60335:

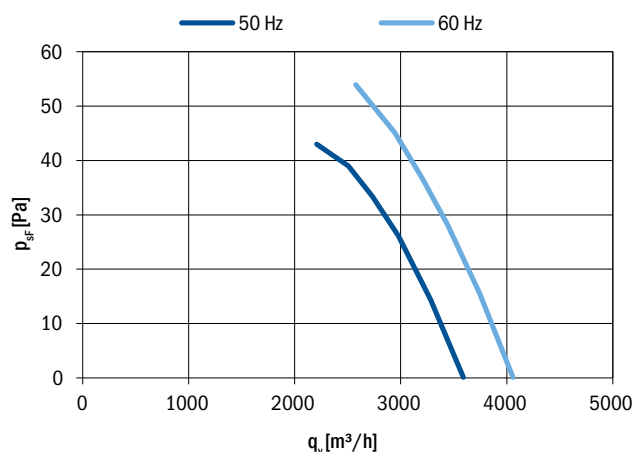
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	125/165 W
Rated current	0.55/0.70 A
Rated speed	890/1000 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	76/70 dB (A)
Condensator	5 µF/450 V
Connection	terminal box
Insulation class	155
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
ErP characteristic measured in full bell mouth without 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 diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

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

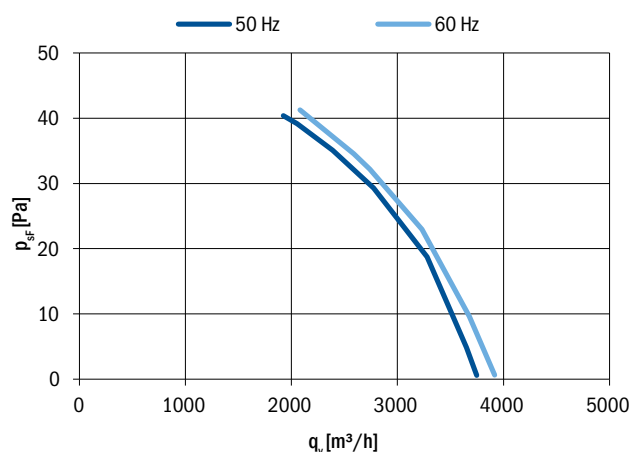
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	115/150 W
Rated current	0.50/0.65 A
Rated speed	800/880 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	83/87 dB (A)
Condensator	3.15 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

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

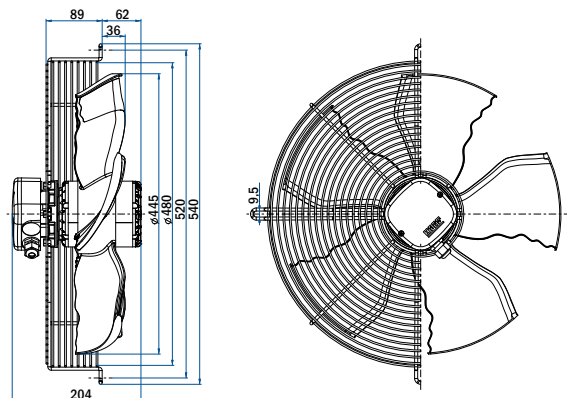
Power input lower than 125 W.

**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	

Aerodynamic characteristic

Fan characteristic measured in short bell mouth with guard grill

**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 diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

04





AC Axial fans Paddle blades

EC AXIAL FANS

AC AXIAL FANS
SICKLED BLADES

AC AXIAL FANS
PLASTIC BLADES

AC AXIAL FANS
PADDLE BLADES

AC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

CONNECTION DIAGRAMS

Axial fans with induction (AC) motors and paddle blades



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



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



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

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

Diameter:

200 mm

R09_-2025_-2M-1511



Nominal data according to standard EN 60335:

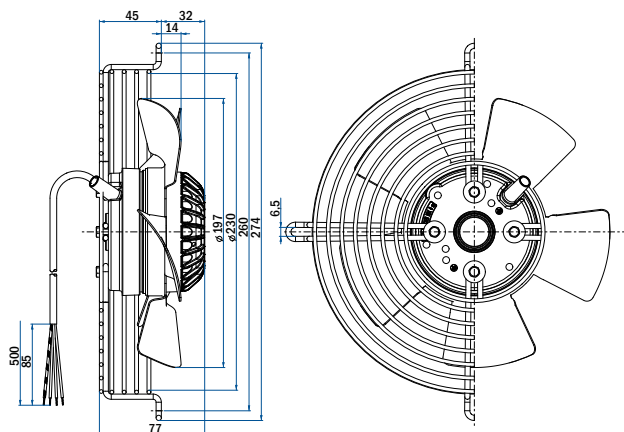
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	45/55 W
Rated current	0.21/0.24 A
Rated speed	2580/2850 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	66/69 dB (A)
Condensator	1.5 µF/450 V
Connection	cable
Insulation class	155
Protection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

Is not subject to the EU regulation 327/2011.

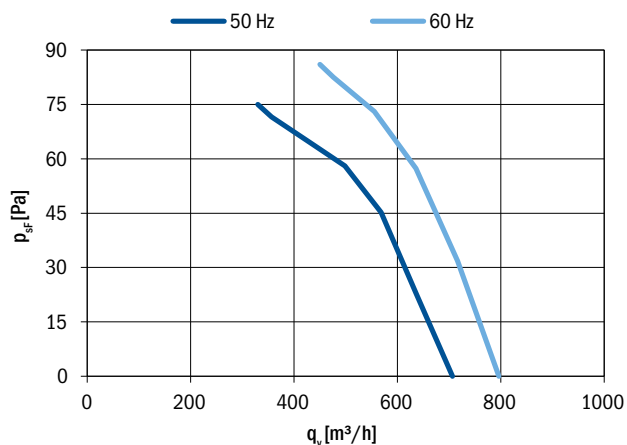
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2025M-2M-1511	0309-4-0190	1.6
Blowing	R09R-2025M-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-2025M-2M-1511	On request	2.3
Blowing	R09P-2025M-2M-1511	0309-4-0171	

Fan without guard grill

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

General notes

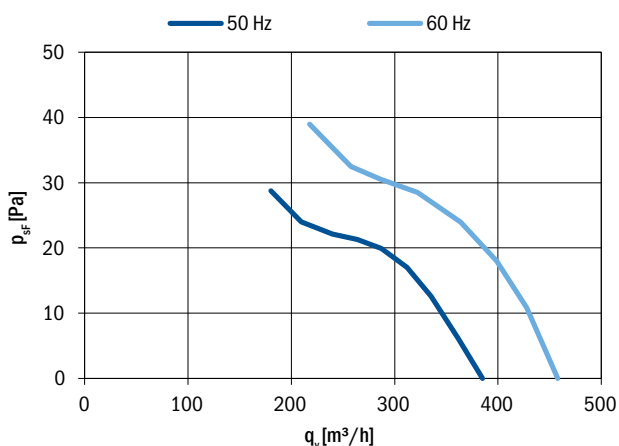
Connection diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0042	
Accessories		Page 134
Compliant to standards		Page 28

R09_-2025_-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	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.

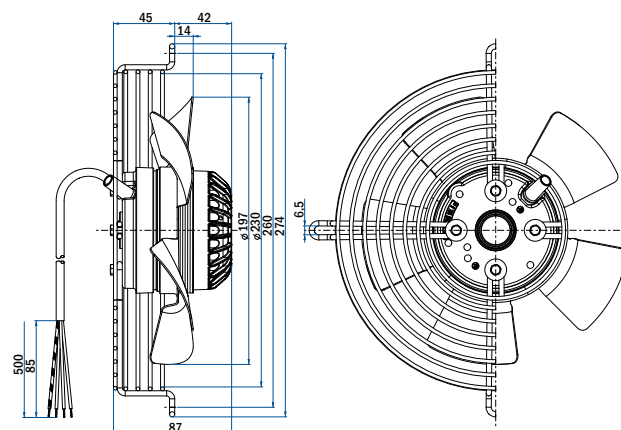
Power input lower than 125 W.

Aerodynamic characteristic

Fan characteristic measured in full bell mouth with guard grill

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2025M-4M-2516	0309-4-0211	3.4
Blowing	R09R-2025M-4M-2516	0309-4-0261	

**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 diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0002	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

250 mm

R09_-2525_-2M-3539



Nominal data according to standard EN 60335:

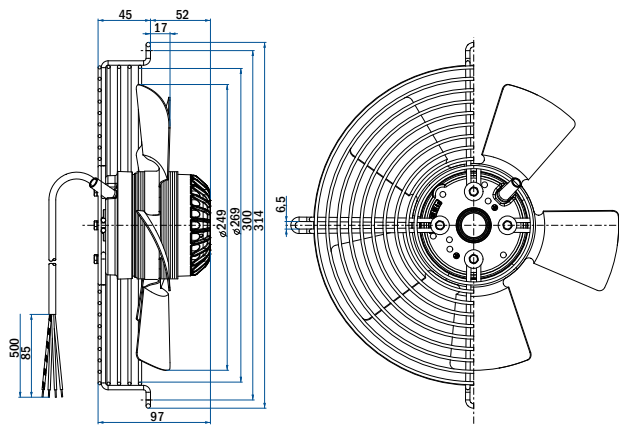
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	95/130 W
Rated current	0.44/0.58 A
Rated speed	2700/2950 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65 °C
Sound power level A weighted	72/73 dB (A)
Condensator	2 µF/450 V
Connection	cable
Insulation class	155
Protection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

Is not subject to the EU regulation 327/2011.

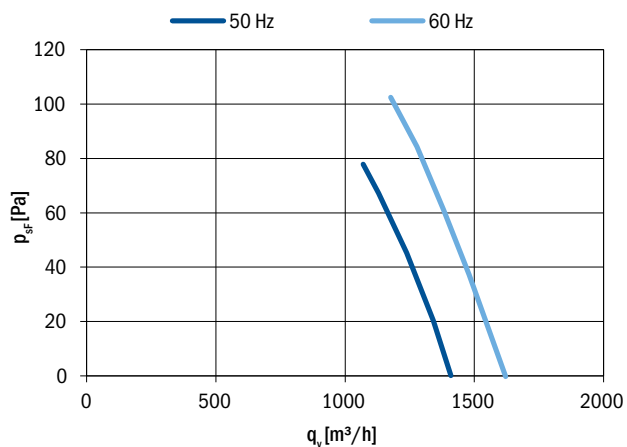
Power input lower than 125 W.

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

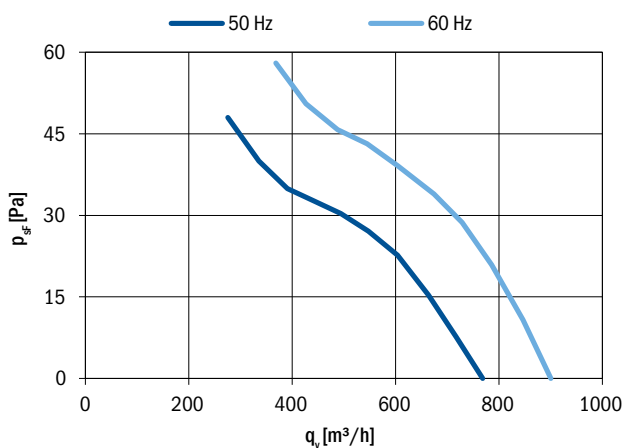
Connection diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0002	
Accessories		Page 134
Compliant to standards		Page 28

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.

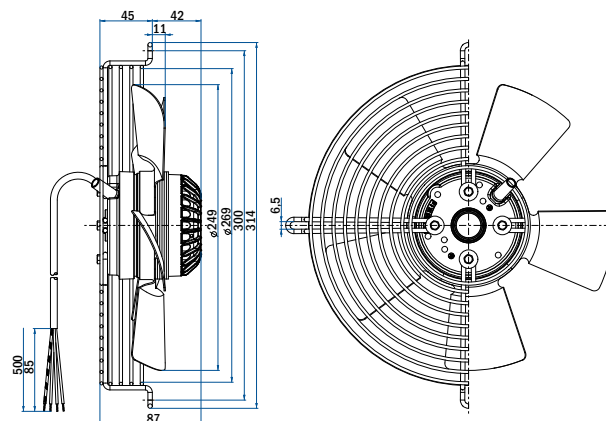
Power input lower than 125 W.

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 diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0002	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

250 mm

R09_-2525_-6M-2515



Nominal data according to standard EN 60335:

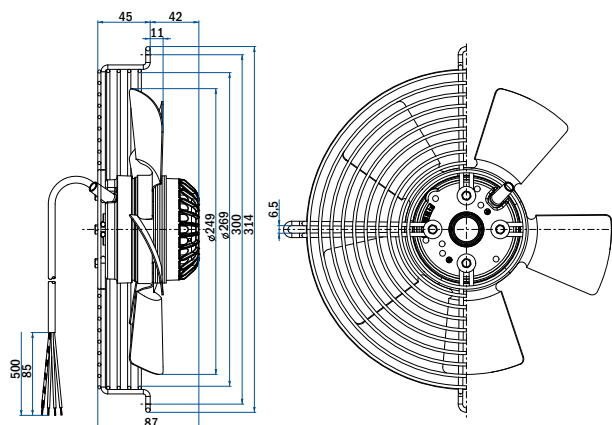
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	36/41 W
Rated current	0.16/0.18 A
Rated speed	980/1160 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55 °C
Sound power level A weighted	44/45 dB (A)
Condensator	1.5 µF/450 V
Connection	cable
Insulation class	155
Protection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

Is not subject to the EU regulation 327/2011.

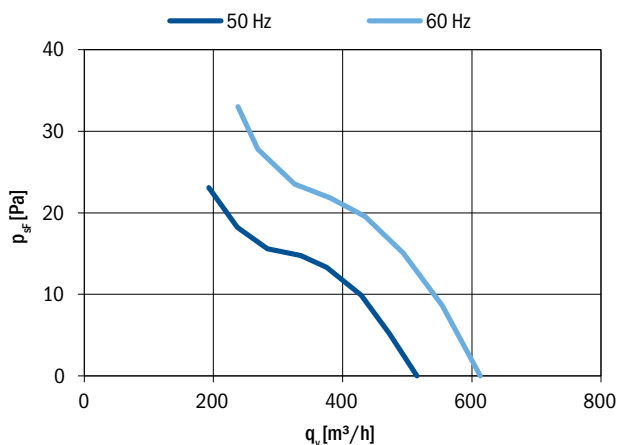
Power input lower than 125 W.

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R09R-2525A-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 diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0002	
Accessories		Page 134
Compliant to standards		Page 28

R09_-2528_-4M-2516

Diameter:

200 mm

Nominal data according to standard EN 60335:

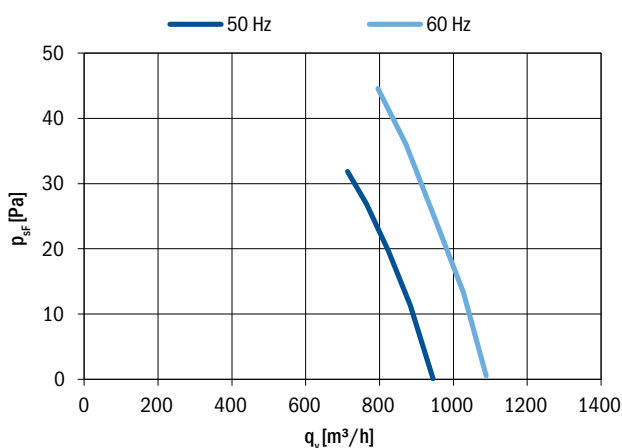
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	40/52 W
Rated current	0.17/0.22 A
Rated speed	1360/1550 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	60/63 dB (A)
Condensator	1.5 µF/450 V
Connection	terminal box
Insulation class	155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

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.



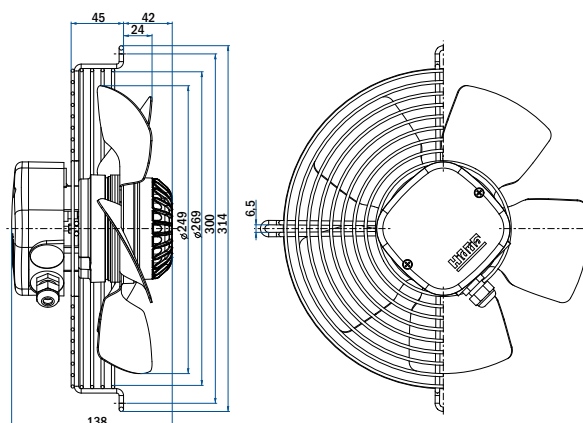
Aerodynamic characteristic



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	0309-4-0213	1.9
Blowing	R09R-2528P-4M-2516	0309-4-0215	



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 diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0002	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

300 mm

R09_-3028_-4M-3509



Nominal data according to standard EN 60335:

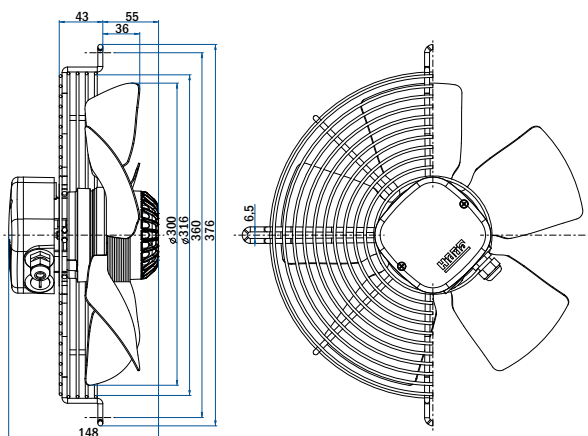
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	74/92 W
Rated current	0.34/0.4 A
Rated speed	1330/1470 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	67/70 dB (A)
Condensator	2.5 µF/450 V
Connection	terminal box
Insulation class	155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

Is not subject to the EU regulation 327/2011.

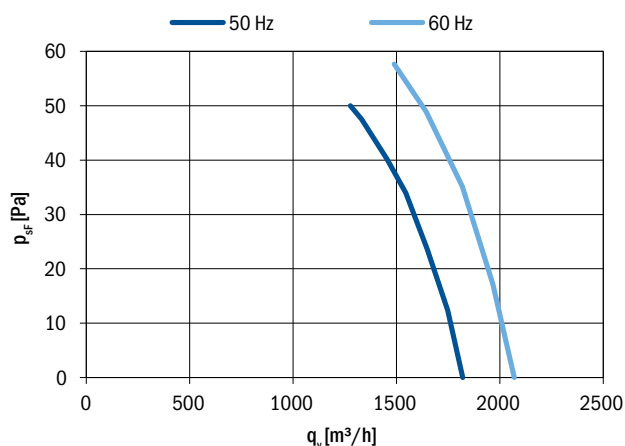
Power input lower than 125 W.

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

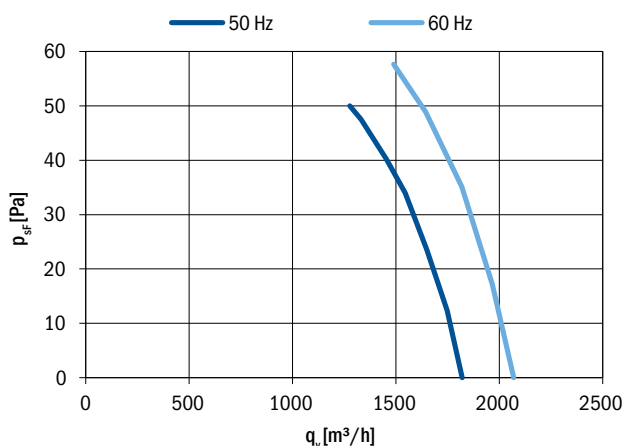
Connection diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0002	
Accessories		Page 134
Compliant to standards		Page 28

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.

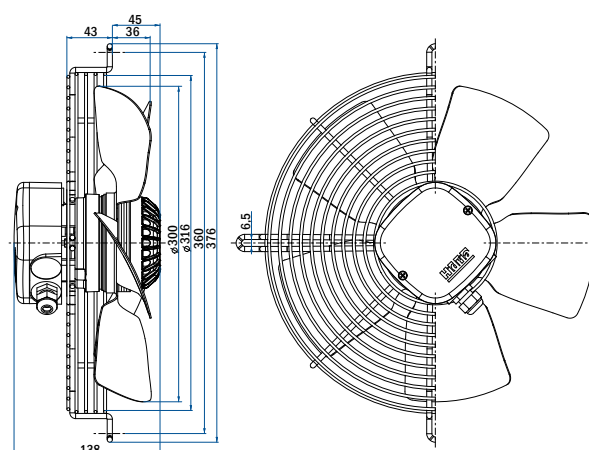
Power input lower than 125 W.

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 diagram: Sucking	0301-1-0049	Page 146
Blowing	0301-1-0049	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

315 mm

R09_-3132_-4M-3509



Nominal data according to standard EN 60335:

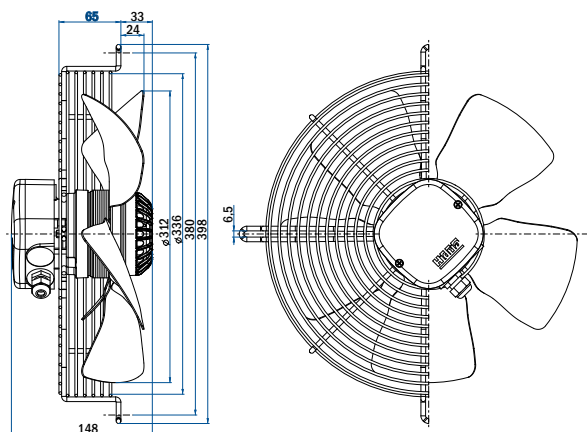
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	68/117 W
Rated current	0.38/0.51 A
Rated speed	1340/1490 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	55/45 °C
Sound power level A weighted	68/72 dB (A)
Condensator	3.15 µF/450 V
Connection	terminal box
Insulation class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

Is not subject to the EU regulation 327/2011.

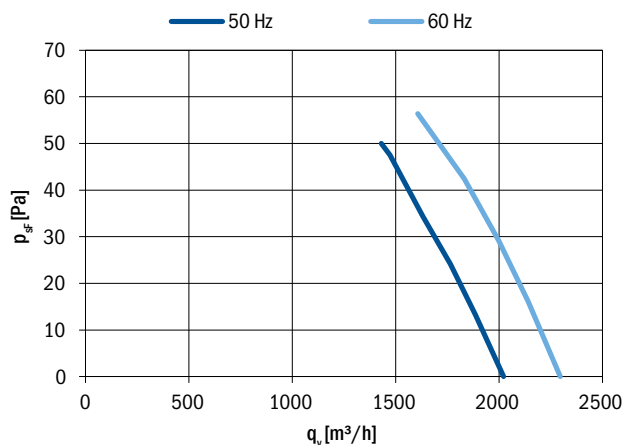
Power input lower than 125 W.

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

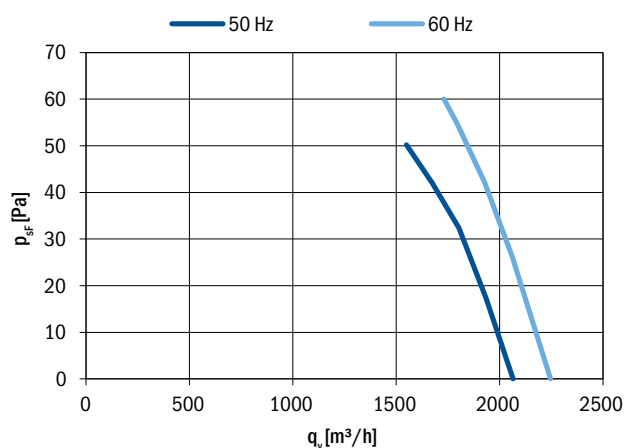
Connection diagram: Sucking	0301-1-0026	Page 145
Blowing	0301-1-0002	
Accessories		Page 134
Compliant to standards		Page 28

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.

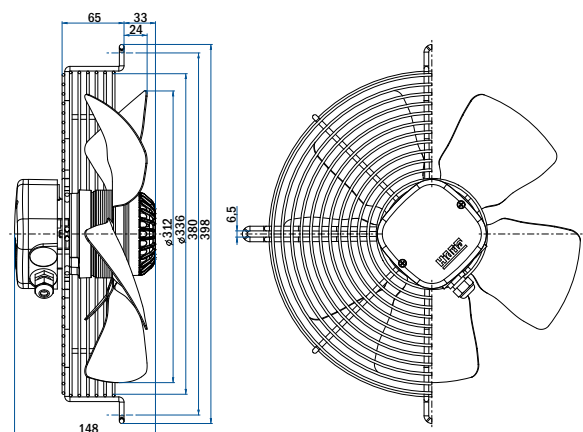
Power input lower than 125 W.

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 diagram: Sucking	0301-1-0049	Page 146
Blowing	0301-1-0049	
Accessories		Page 134
Compliant to standards		Page 28

Diameter:

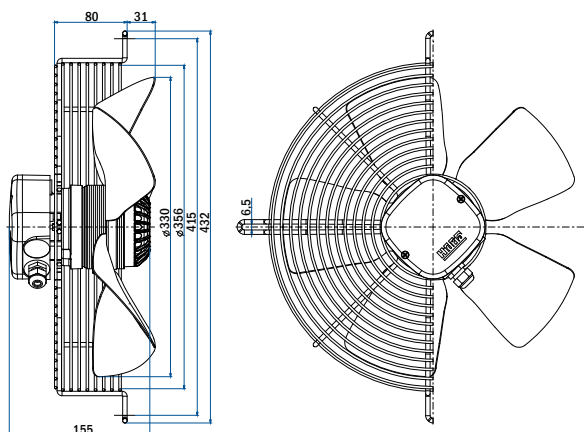
330 mm

R09_-3332_-4M-4240



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	

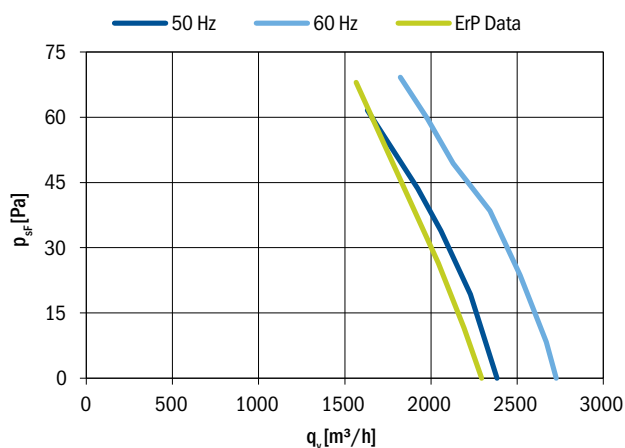
Nominal data according to standard EN 60335:

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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

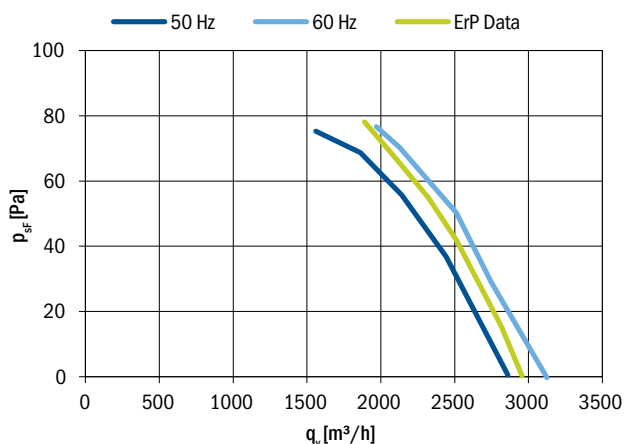
Connection diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

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

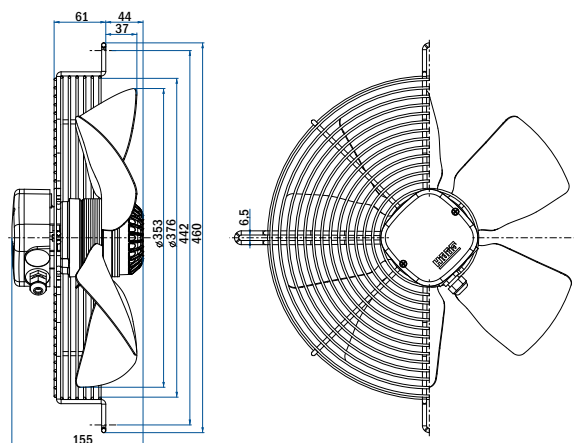
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0043	Page 145
Blowing	0301-1-0044	
Accessories		Page 134
Compliant to standards		Page 28

**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	

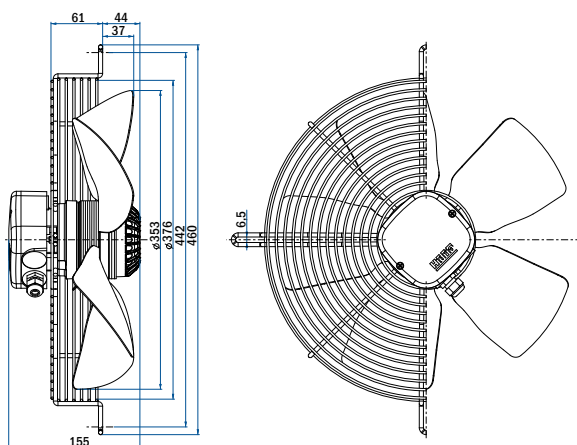
Diameter:

350 mm



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	

R09_-3532_-4T-4203

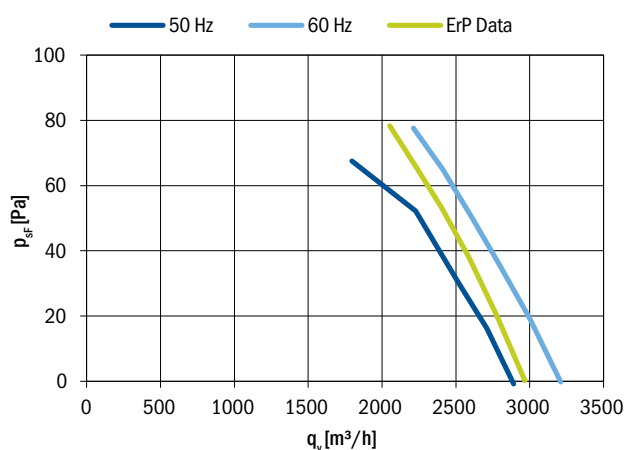
Nominal data according to standard EN 60335:

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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0049	Page 146
Blowing	0301-1-0049	
Accessories		Page 134
Compliant to standards		Page 28

R11_-3530_-4M-3852

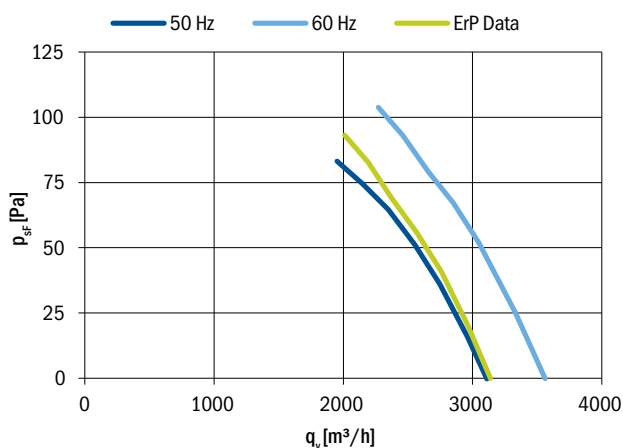
Diameter:

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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking 0301-1-0043
Blowing 0301-1-0044

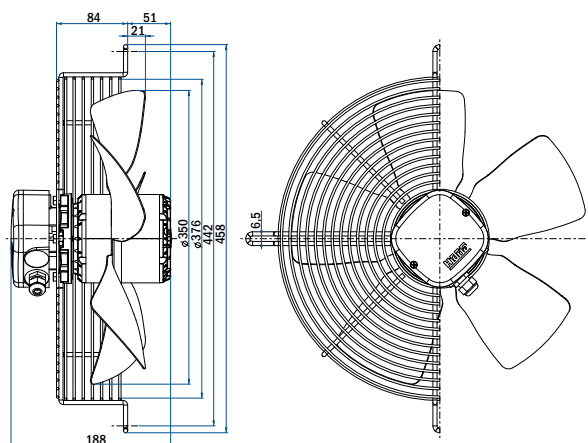
Accessories	Page 134
Compliant to standards	Page 28



COMPLIANT TO
ErP 2015

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:

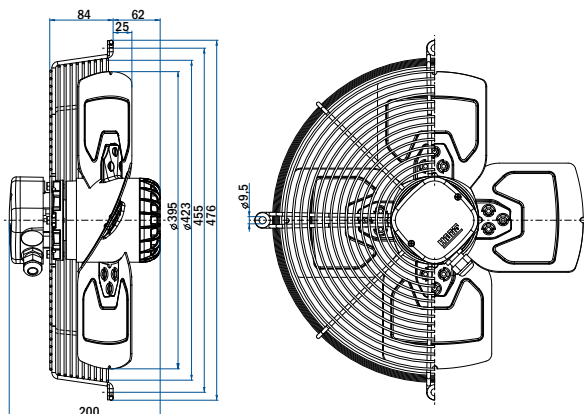
400 mm

R11_-4025_-4M-5137



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4025A-4M-5137	0311-4-0194	6.1
Blowing	R11R-4025P-4M-5137	0311-4-0195	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4025A-4M-5137	On request	
Blowing	R11P-4025P-4M-5137	On request	

Fan without guard grill

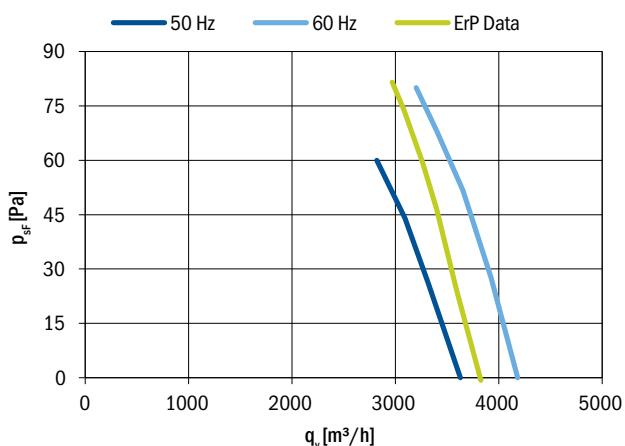
Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4025A-4M-5137	On request	
Blowing	R11E-4025P-4M-5137	On request	

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	170/205 W
Rated current	0.82/0.89 A
Rated speed	1370/1570 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/65 °C
Sound power level A weighted	71/74 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	33.3 %
Measurement category	A
Efficiency category	static
Efficiency grade N	43.8
Variable speed drive	NO
Power input	219 W
Air flow	2552 m³/h
Pressure drop	109 Pa
Speed	1404 RPM
Specific ratio	1.00

Aerodynamic characteristic



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

General notes

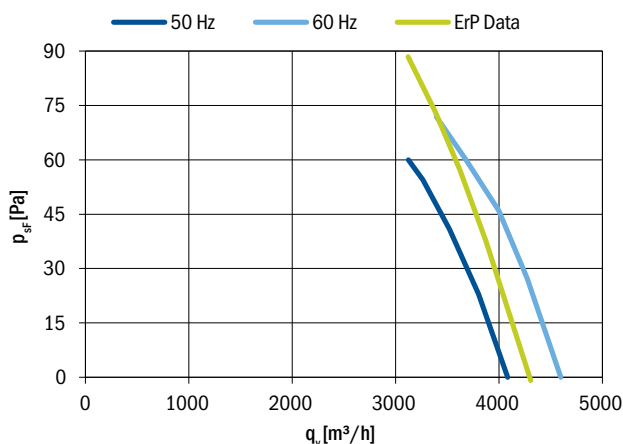
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

R11_-4030_-4M-5137**Diameter:****400 mm****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

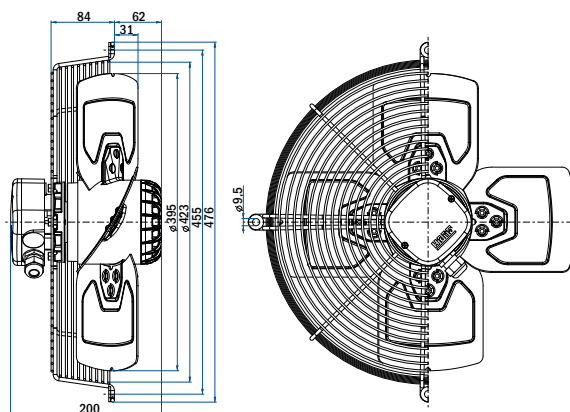
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

**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

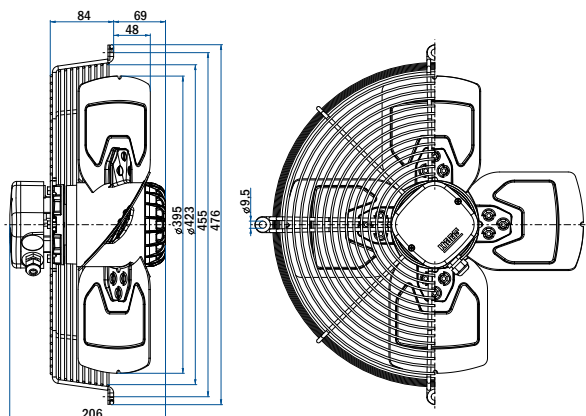
Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4030A-4M-5137	On request	
Blowing	R11E-4030P-4M-5137	On request	

400 mm

Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	245 W
Rated current	1.15 A
Rated speed	1320 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	73 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	26.5 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.2
Variable speed drive	NO
Power input	293 W
Air flow	3243 m³/h
Pressure drop	89 Pa
Speed	1324 RPM
Specific ratio	1.00

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4035A-4M-5715	0311-4-0028	6.3
Blowing	R11R-4035P-4M-5715	0311-4-0047	



Airflow Direction	Type	Code	Weight (kg)
Sucking	R11P-4035A-4M-5715	On request	
Blowing	R11P-4035P-4M-5715	On request	

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4035A-4M-5715	On request	
Blowing	R11E-4035P-4M-5715	On request	

Flow rate q_v [m³/h]	Pressure drop p_d [Pa] (50 Hz)	Pressure drop p_d [Pa] (ErP Data)
3200	57	-
3400	48	-
3600	40	-
3800	32	62
4000	22	50
4200	10	38
4400	0	25
4600	-	12
4800	-	0

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

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

R11_-4030_-4T2-3830

Diameter:

400 mm

Nominal data according to standard EN 60335:

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

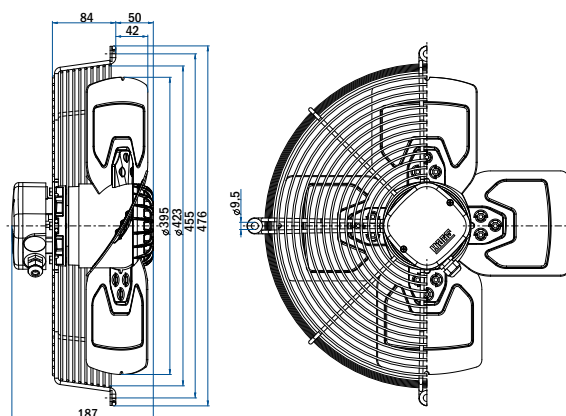
ErP data according to EU regulation 327/2011:

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

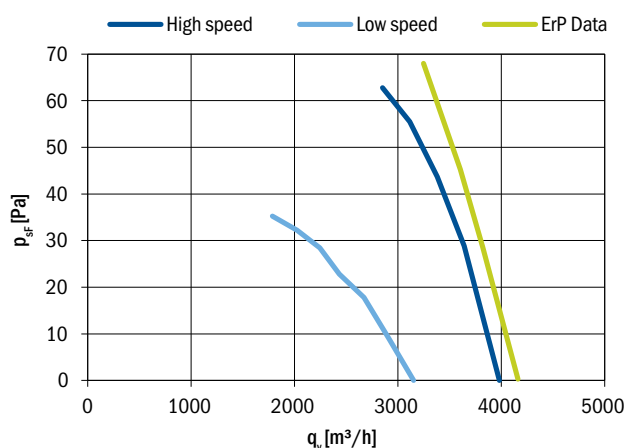


Fan with guard grill

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



Aerodynamic characteristic



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

General notes

Connection diagram: Sucking	0301-1-0048	Page 146
Blowing	0301-1-0048	
Accessories		Page 134
Compliant to standards		Page 28

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

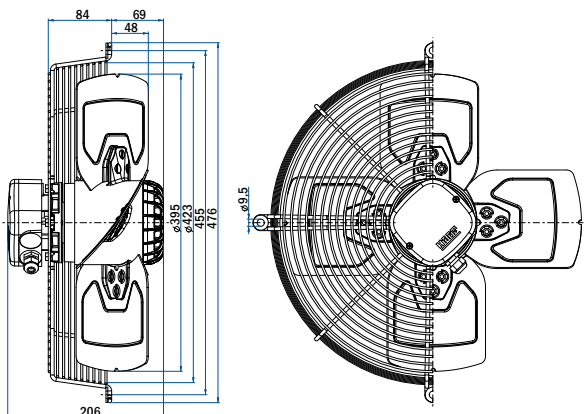
Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4030A-4T2-3830	On request	
Blowing	R11E-4030P-4T2-3830	On request	

400 mm

Nominal data according to standard EN 60335:	
Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	260/190 W
Rated current	0,60/0,30 A
Rated speed	1380/1160 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	75/71 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Overall efficiency	29.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	38.8
Variable speed drive	NO
Power input	289 W
Air flow	3585 m³/h
Pressure drop	87 Pa
Speed	1382 RPM
Specific ratio	1.00

Airflow Direction	Type	Code	Weight (kg)
Sucking	R11R-4035A-4T2-5745	0311-1-0159	6.3
Blowing	R11R-4035P-4T2-5745	0311-4-0049	



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

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

Connection diagram: Sucking	0301-1-0048	Page 146
Blowing	0301-1-0048	
Accessories		Page 134
Compliant to standards		Page 28

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	235/320 W
Rated current	1,15/1,40 A
Rated speed	1400/1600 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50/65 °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:

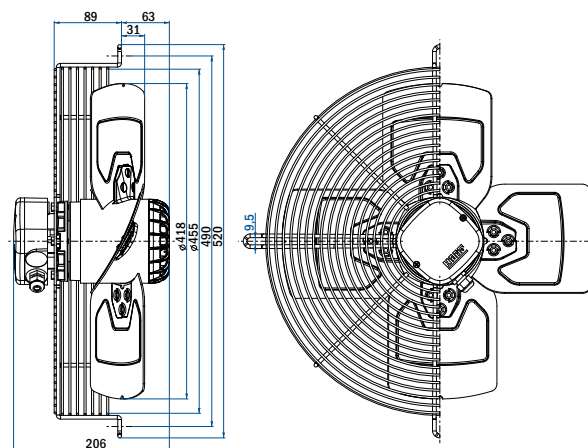
Overall efficiency	31.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	41.2
Variable speed drive	NO
Power input	243 W
Air flow	3106 m ³ /h
Pressure drop	92 Pa
Speed	1372 RPM
Specific ratio	1.00



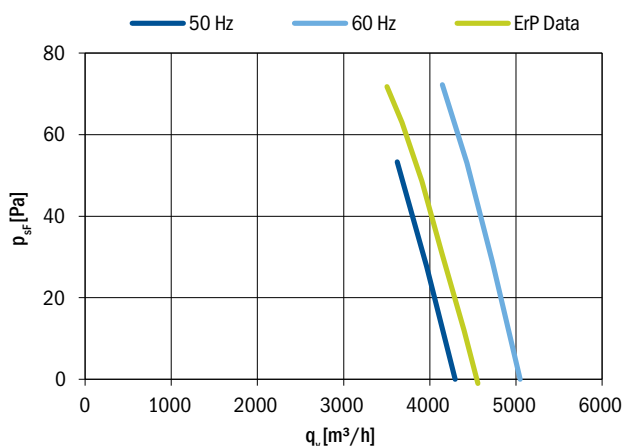
COMPLIANT TO
ErP2015

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	



Aerodynamic characteristic



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

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

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	

Diameter:

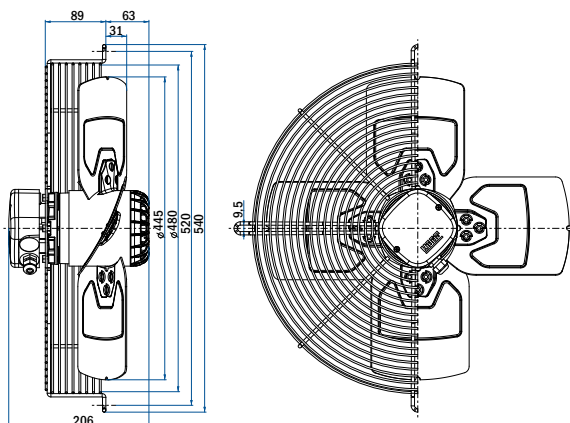
450 mm

R11_-4525_-4M-5765



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	0311-4-0458	



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

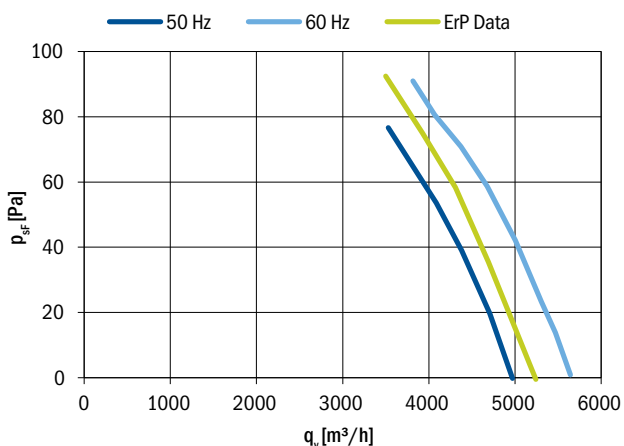
Airflow Direction	Type	Code	Weight (kg)
Sucking	R11E-4525A-4M-5765	On request	
Blowing	R11E-4525P-4M-5765	On request	

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	NO
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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

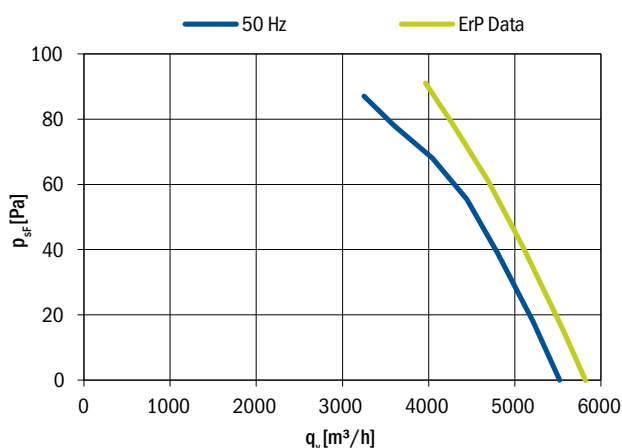
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

R11_-4530_-4M-5749**Diameter:****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

ErP data according to EU regulation 327/2011:

Overall efficiency	29.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	38.8
Variable speed drive	N0
Power input	324 W
Air flow	3965 m³/h
Pressure drop	91 Pa
Speed	1291 RPM
Specific ratio	1.00

Aerodynamic characteristic

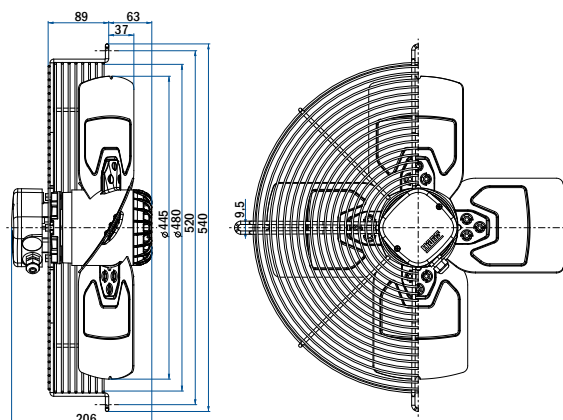
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

**Fan with guard grill**

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

**Fan with plate**

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

Fan without guard grill

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

Diameter:

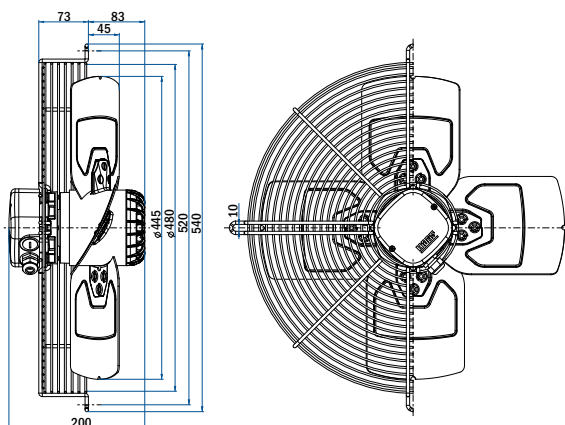
450 mm

R11_-4525_-4T-5136



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	

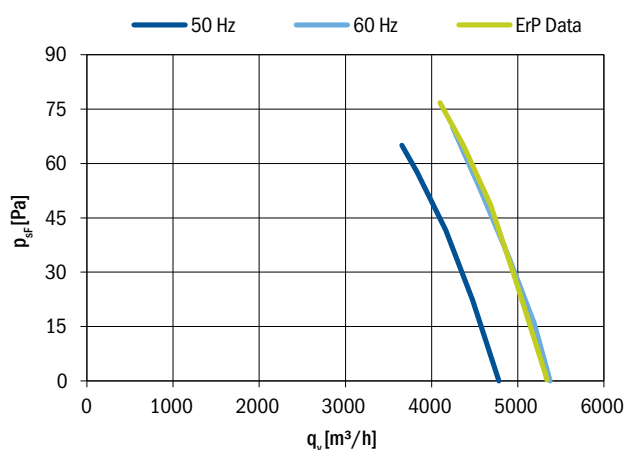
Fan without guard grill

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

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 grillErP characteristic measured in full bell mouth without guard grill

General notes

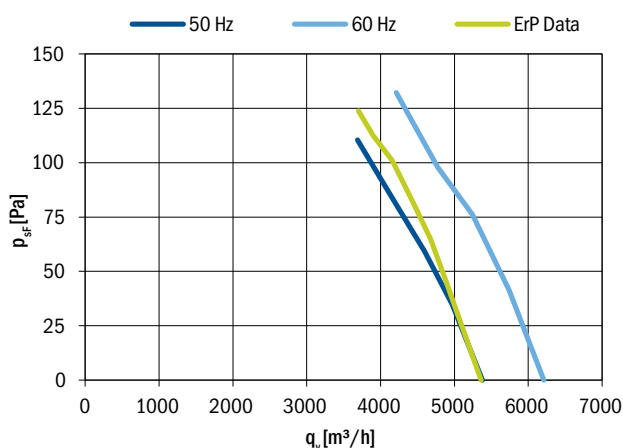
Connection diagram: Sucking	0301-1-0049	Page 146
Blowing	0301-1-0049	
Accessories		Page 134
Compliant to standards		Page 28

R13_-4525_-4M-5009**Diameter:****450 mm****Nominal data according to standard EN 60335:**

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

ErP data according to EU regulation 327/2011:

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

Aerodynamic characteristic

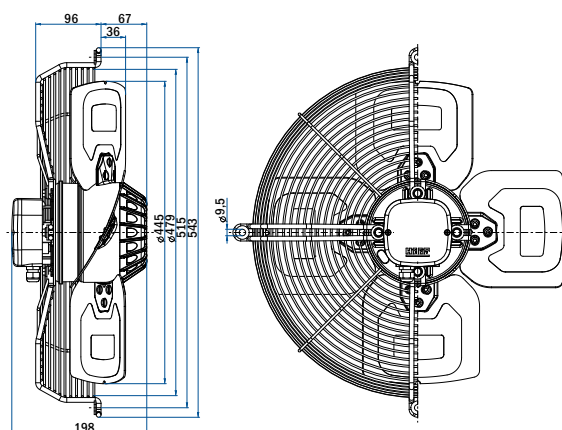
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

**Fan with guard grill**

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

**Fan with plate**

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

Fan without guard grill

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

Diameter:

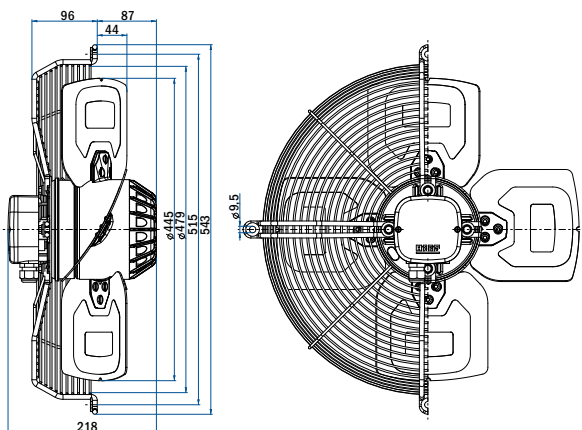
450 mm

R13_-4530_-4M-7039



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

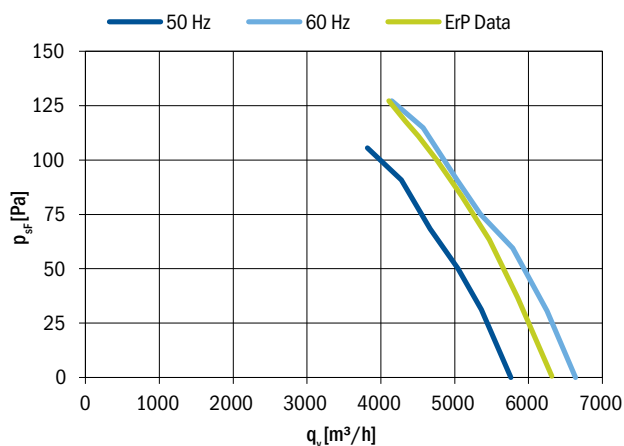
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530A-4M-7039	On request	
Blowing	R13E-4530P-4M-7039	On request	

Nominal data according to standard EN 60335:	
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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

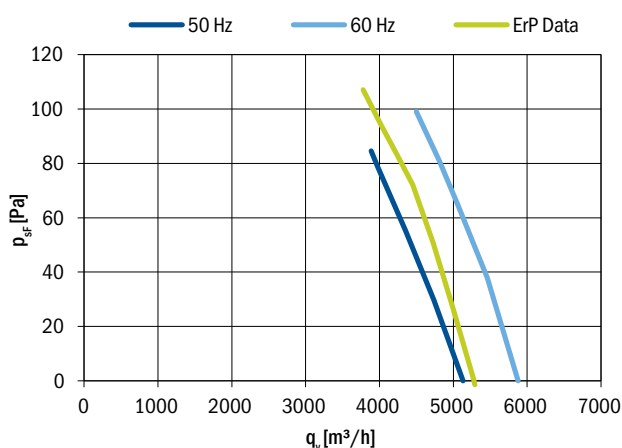
Connection diagram: Sucking	0301-1-0035	Page 146
Blowing	0301-1-0029	
Accessories		Page 134
Compliant to standards		Page 28

R13_-4525_-4T-3529**Diameter:****450 mm****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

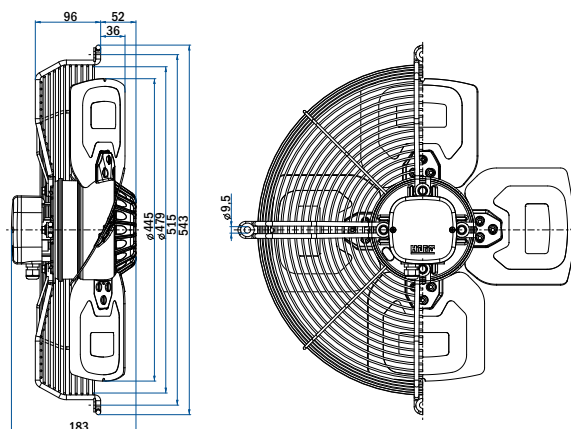
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0034	Page 147
Blowing	0301-1-0034	
Accessories		Page 134
Compliant to standards		Page 28

**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	

Diameter:

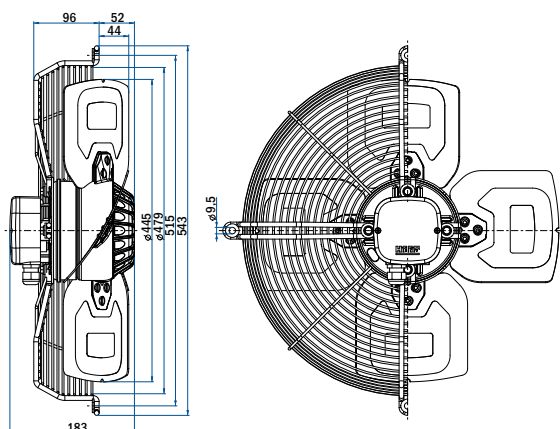
450 mm

R13_-4530_-4T2-3567



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4530A-4T2-3567	0313-4-0291	8.4
Blowing	R13R-4530P-4T2-3567	On request	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4530A-4T2-3567	On request	
Blowing	R13P-4530P-4T2-3567	On request	

Fan without guard grill

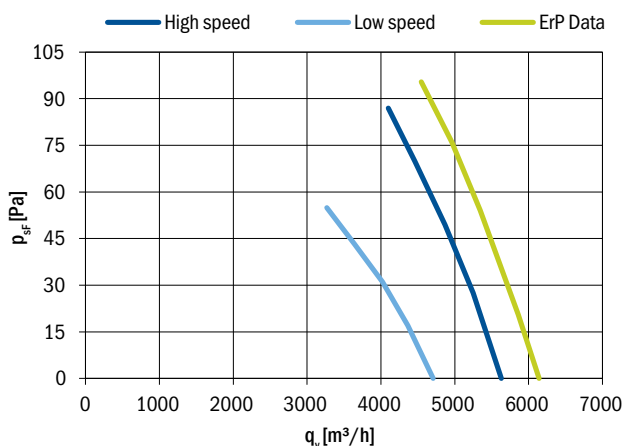
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4530A-4T2-3567	On request	
Blowing	R13E-4530P-4T2-3567	On request	

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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

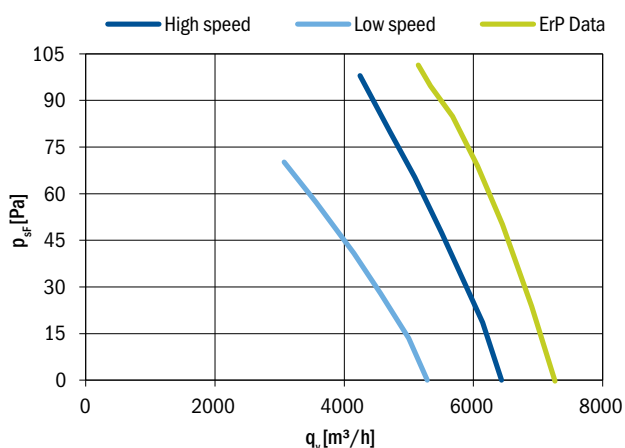
Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

R13_-4535_-4T2-5004**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	0.95/0.55 A
Rated speed	1360/1100 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	60 °C
Sound power level A weighted	80/73 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	28.6 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.8
Variable speed drive	NO
Power input	509 W
Air flow	4820 m ³ /h
Pressure drop	114 Pa
Speed	1339 RPM
Specific ratio	1.00

Aerodynamic characteristic

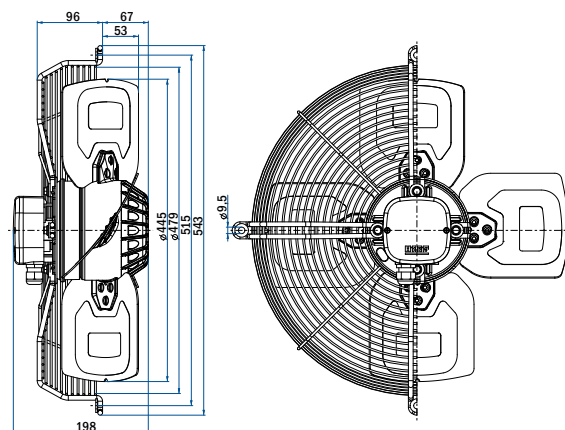
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4535A-4T2-5004	0313-4-0004	10.0
Blowing	R13R-4535P-4T2-5004	0313-4-0002	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-4535A-4T2-5004	On request	
Blowing	R13P-4535P-4T2-5004	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-4535A-4T2-5004	On request	
Blowing	R13E-4535P-4T2-5004	On request	

Diameter:

450 mm

R13_-4535_-6M-5027

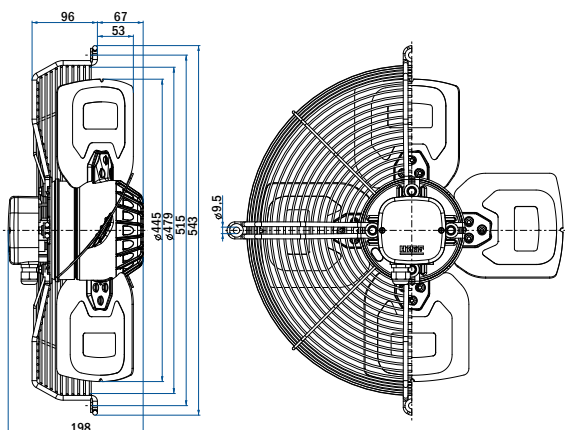


Nominal data according to standard EN 60335:

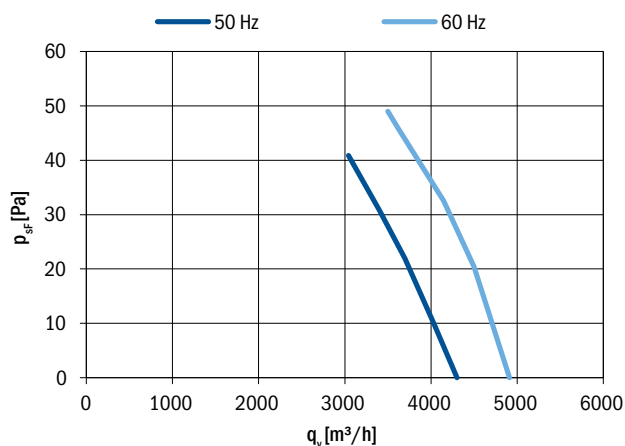
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	195/240 W
Rated current	1,0/1.05 A
Rated speed	910/1040 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50/50 °C
Sound power level A weighted	69/73 dB (A)
Condensator	6.3 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-4535A-6M-5027	0313-4-045	10.0
Blowing	R13R-4535P-6M-5027	0313-4-0201	



Aerodynamic characteristic



Fan characteristic measured in short bell mouth with guard grill

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

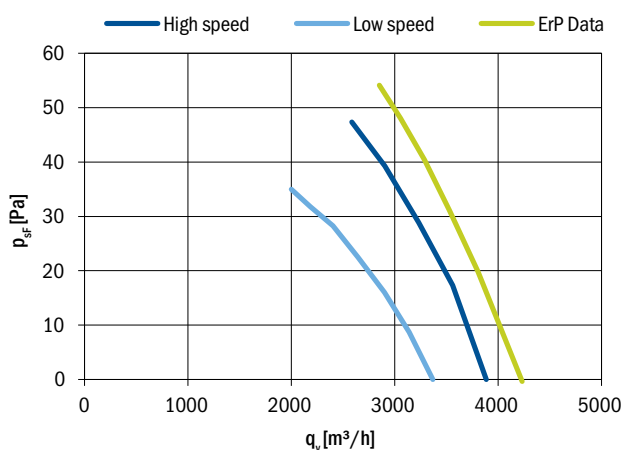
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

R13_-4530_-6T2-3525**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	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

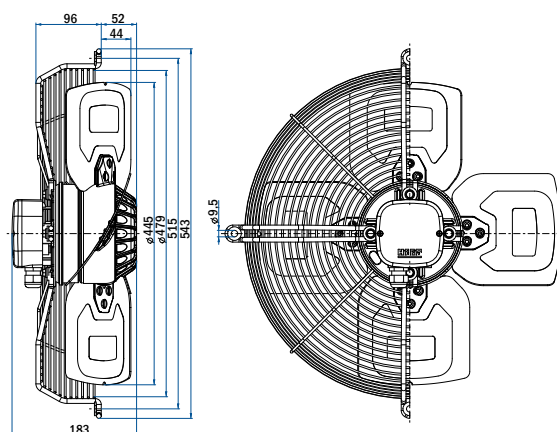
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

**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	

Diameter:

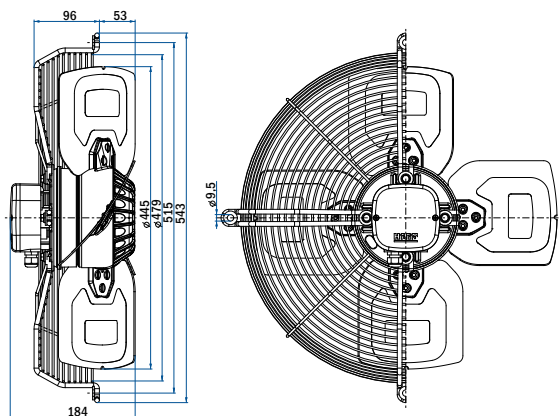
450 mm

R13_-4535_-6T2-3526



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	

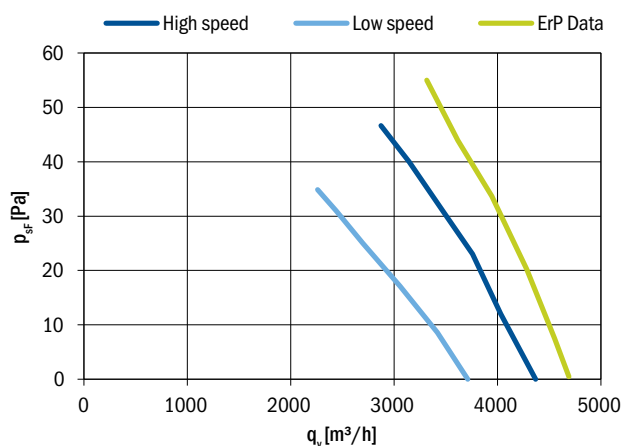
Nominal data according to standard EN 60335:

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	NO
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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

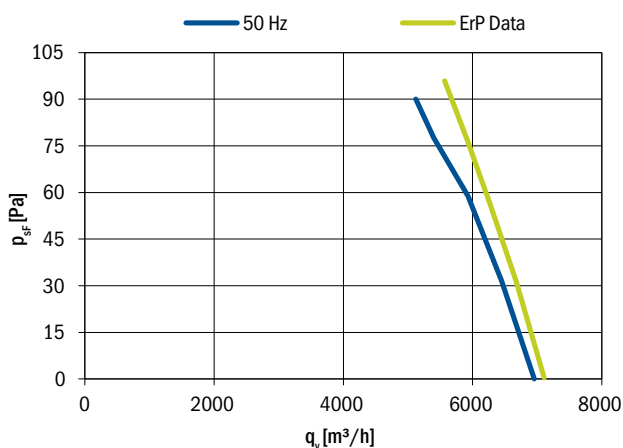
Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

R13_-5025_-4M-5009**Diameter:****500 mm****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

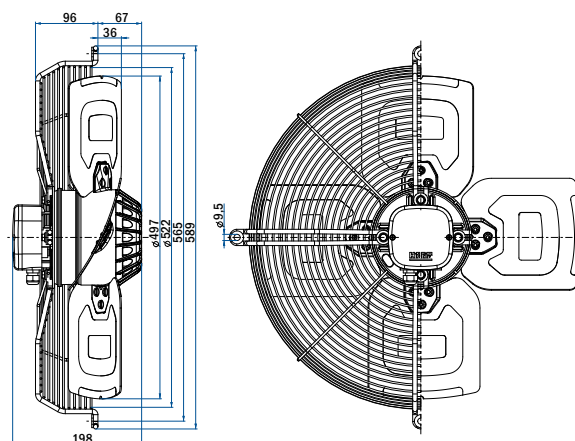
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

**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	

Diameter:

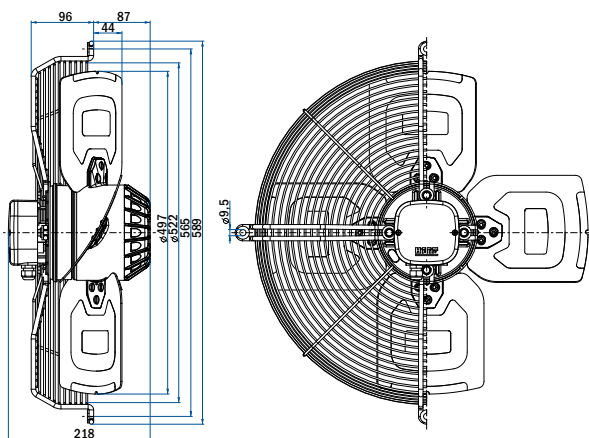
500 mm

R13_-5030_-4M-7012



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	

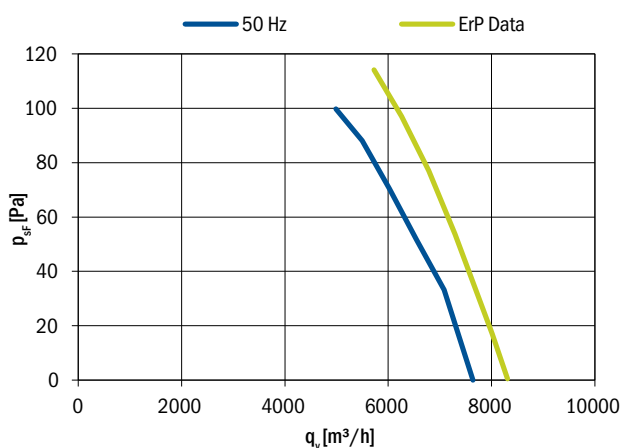
Nominal data according to standard EN 60335:

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	NO
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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

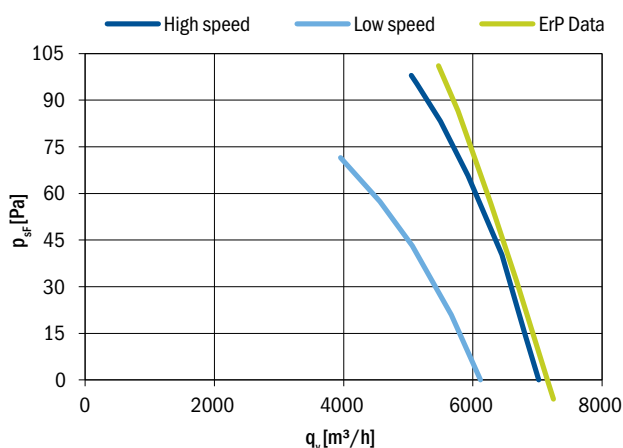
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

R13_-5025_-4T2-5004**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	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

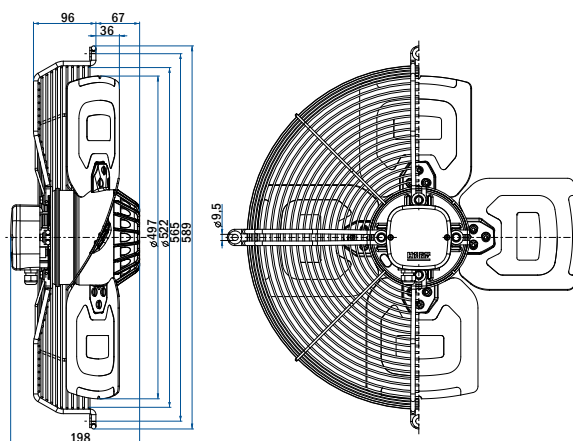
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

**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	

Diameter:

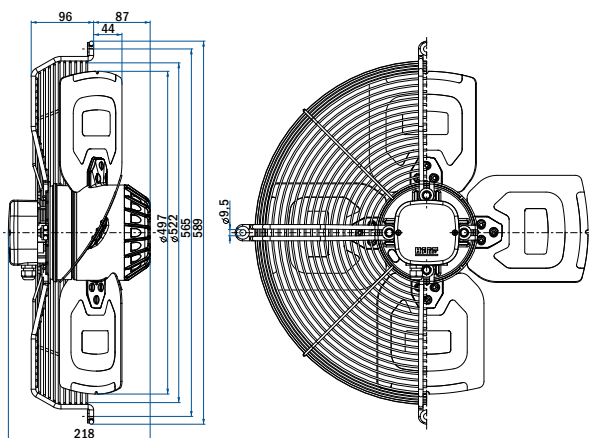
500 mm

R13_-5030_-4T2-7002



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

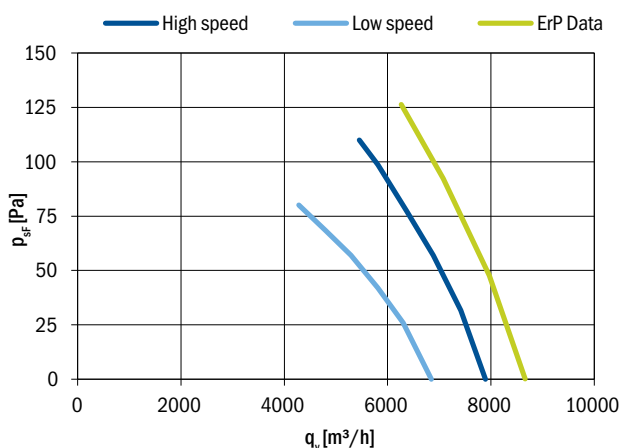
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5030A-4T2-7002	On request	
Blowing	R13E-5030P-4T2-7002	On request	

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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

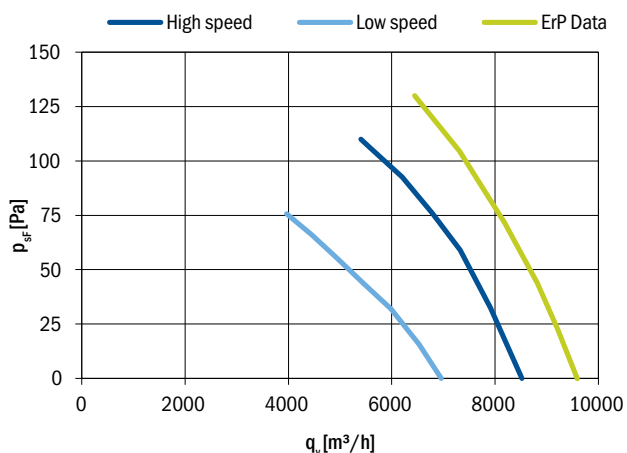
Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

R13_-5035_-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	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

ErP data according to EU regulation 327/2011:

Overall efficiency	29.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.1
Variable speed drive	N0
Power input	769 W
Air flow	6442 m³/h
Pressure drop	131 Pa
Speed	1324 RPM
Specific ratio	1.00

Aerodynamic characteristic

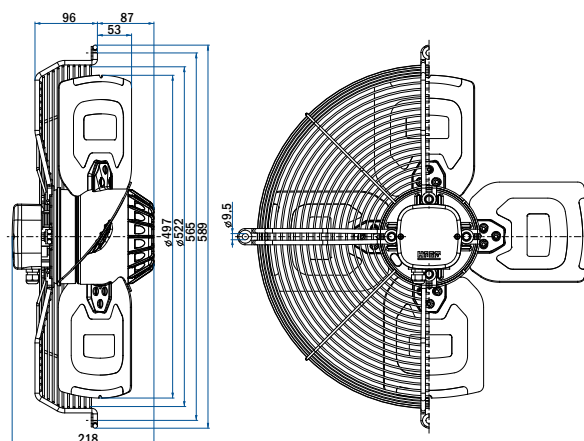
Fan characteristic measured in short bell mouth with guard grill
 ErP characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
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**Fan with guard grill**

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

**Fan with plate**

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

Fan without guard grill

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

Diameter:

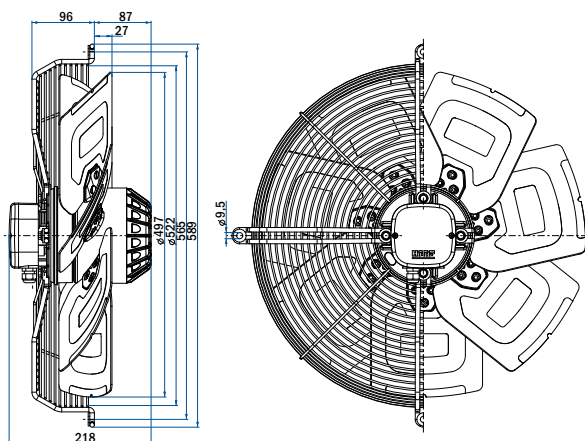
500 mm

R13_-5025_-6M-7099



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

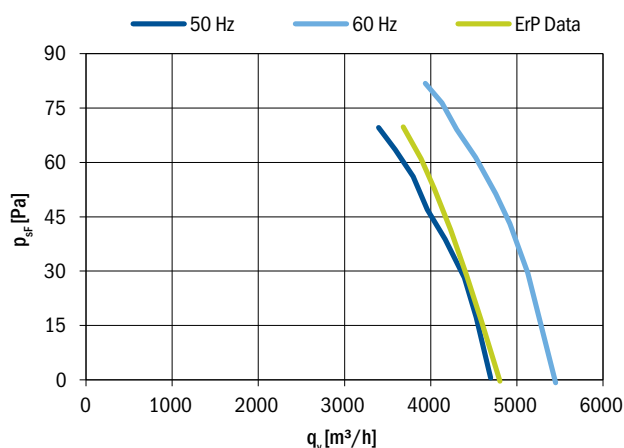
Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5025A-6M-7099	On request	
Blowing	R13E-5025P-6M-7099	On request	

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	1,00/1.42 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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

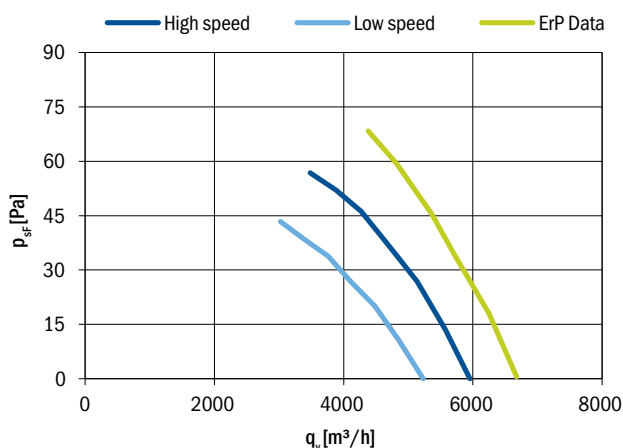
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

R13_-5035_-6T2-5016**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	250/185 W
Rated current	0.65/0.32 A
Rated speed	930/800 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	65/65 °C
Sound power level A weighted	73/67 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

ErP data according to EU regulation 327/2011:

Overall efficiency	26.4 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.0
Variable speed drive	NO
Power input	306 W
Air flow	4378 m ³ /h
Pressure drop	68 Pa
Speed	930 RPM
Specific ratio	1.00

Aerodynamic characteristic

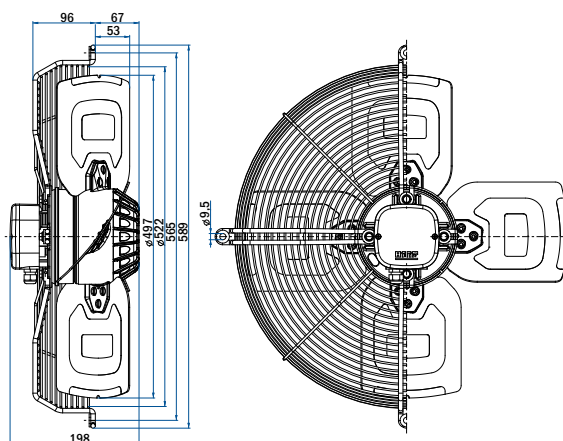
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
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**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5035A-6T2-5016	0313-4-0127	10.4
Blowing	R13R-5035P-6T2-5016	0313-4-0089	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5035A-6T2-5016	On request	
Blowing	R13P-5035P-6T2-5016	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5035A-6T2-5016	On request	
Blowing	R13E-5035P-6T2-5016	On request	

Diameter:

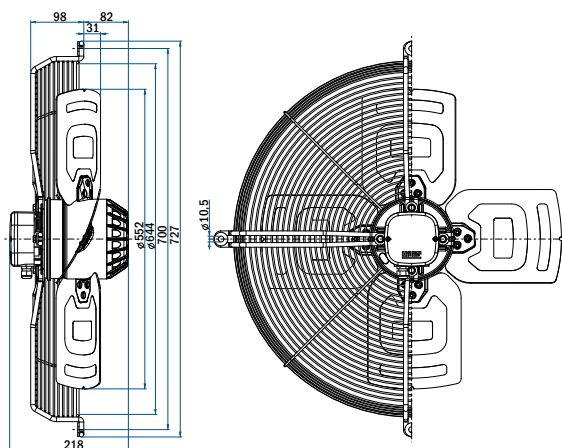
560 mm

R13_-5625_-4T2-7002



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	

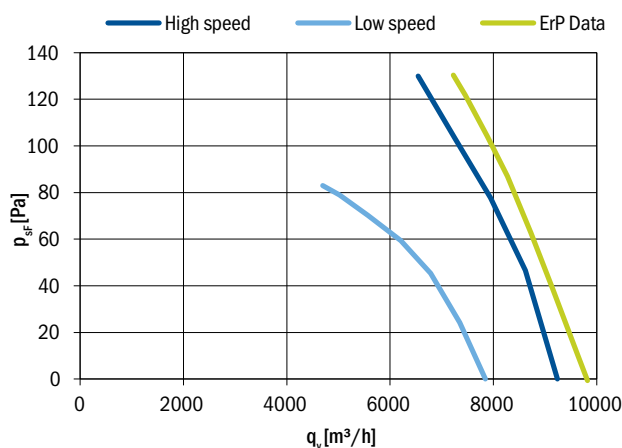
Nominal data according to standard EN 60335:

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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

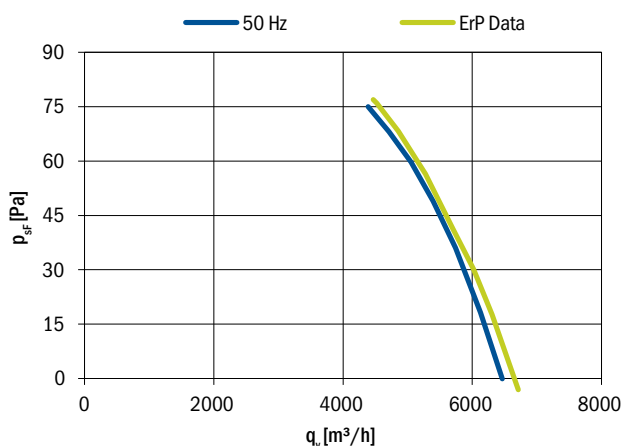
Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
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R13_-5625_-6M-X093**Diameter:****560 mm****Nominal data according to standard EN 60335:**

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	N0
Power input	282 W
Air flow	4468 m³/h
Pressure drop	77 Pa
Speed	891 RPM
Specific ratio	1.00

Aerodynamic characteristic

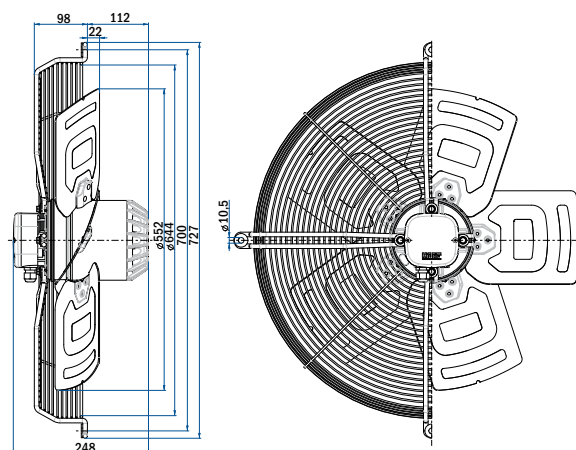
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

COMPLIANT TO
ErP 2015**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	On request	

**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	

Diameter:

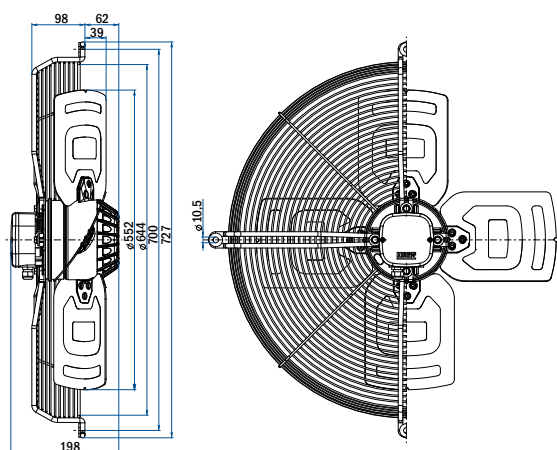
560 mm

R13_-5630_-6T2-5016



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	

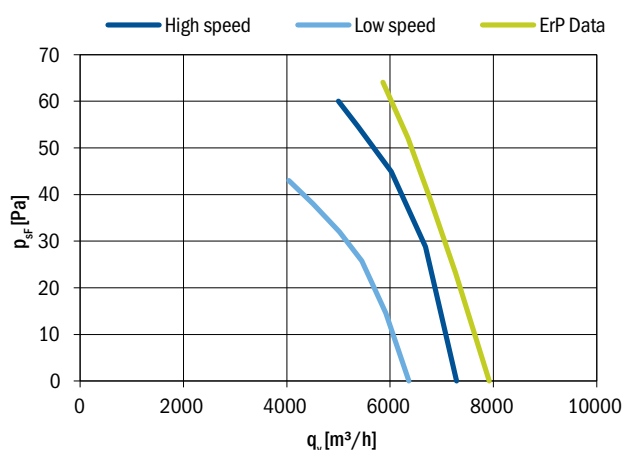
Fan without guard grill

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

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	30.1 %
Measurement category	A
Efficiency category	static
Efficiency grade N	39.3
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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
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R13_-5635_-6T2-7021

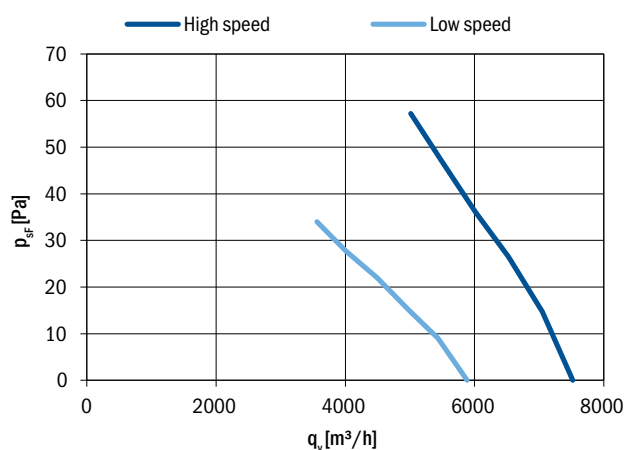
Diameter:

560 mm

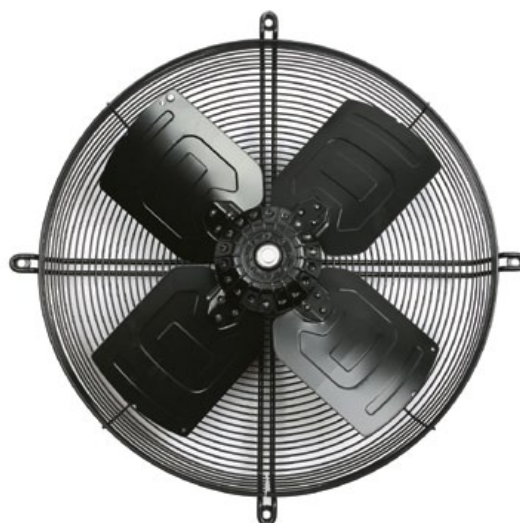
Nominal data according to standard EN 60335:

Phase	3~
Nominal voltage	400 V
Frequency	50 Hz
Speed	high/low
Rated power input	345/215 W
Rated current	0.63/0.36 A
Rated speed	870/660 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70/70 °C
Sound power level A weighted	74/67 dB (A)
Connection	terminal box
Insulation class	155
Protection class	IP54

Aerodynamic characteristic

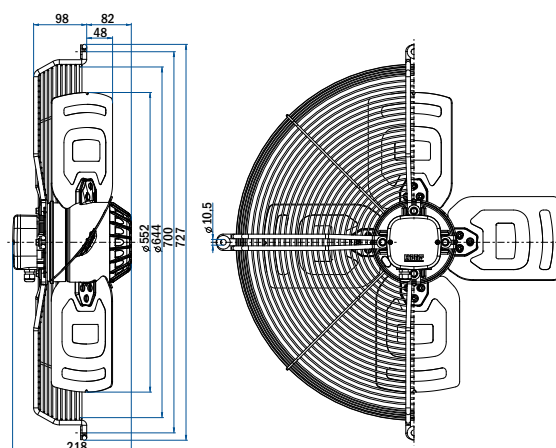


Fan characteristic measured in short bell mouth with guard grill



Fan with guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-5635A-6T2-7021	0313-4-0065	14.0
Blowing	R13R-5635P-6T2-7021	0313-4-0079	



Fan with plate

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-5635A-6T2-7021	On request	
Blowing	R13P-5635P-6T2-7021	On request	

Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-5635A-6T2-7021	On request	
Blowing	R13E-5635P-6T2-7021	On request	

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	

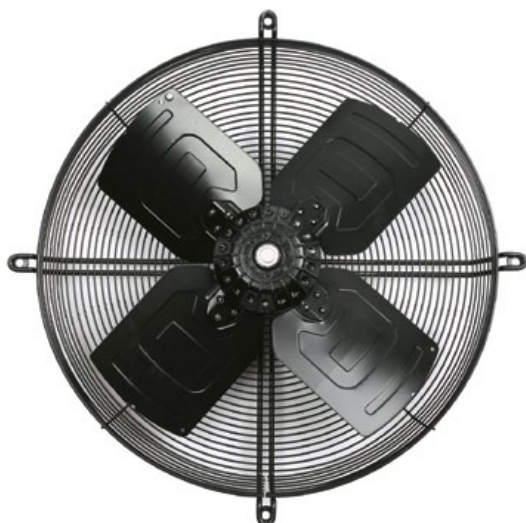
Accessories Page 134

Compliant to standards Page 28

Diameter:

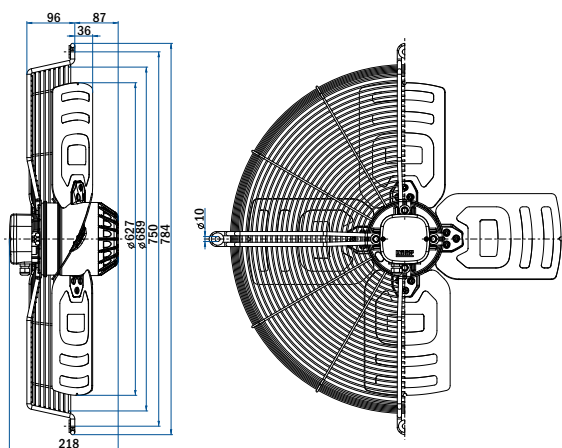
630 mm

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	

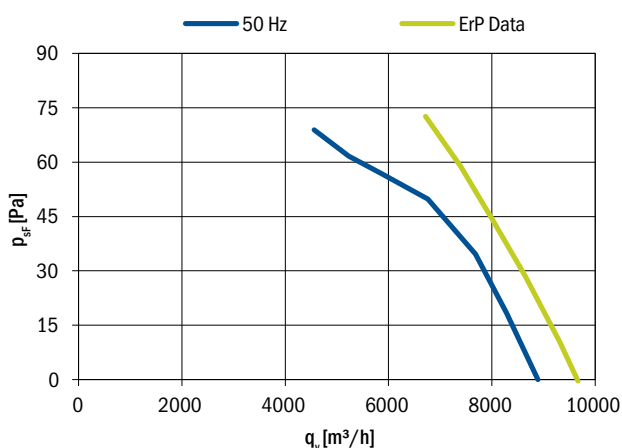
Nominal data according to standard EN 60335:

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 grillErP
characteristic measured in full bell mouth without guard grill

General notes

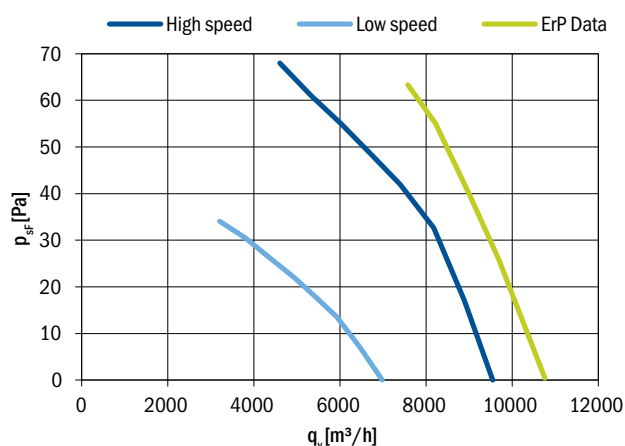
Connection diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

R13_-6330_-6T2-7021**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	390/225 W
Rated current	0,70/0,38 A
Rated speed	840/590 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:

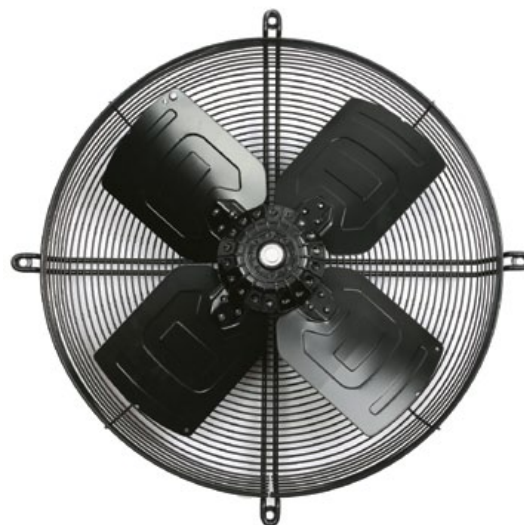
Overall efficiency	28.0 %
Measurement category	A
Efficiency category	static
Efficiency grade N	36.5
Variable speed drive	N0
Power input	459 W
Air flow	7573 m³/h
Pressure drop	63 Pa
Speed	830 RPM
Specific ratio	1.00

Aerodynamic characteristic

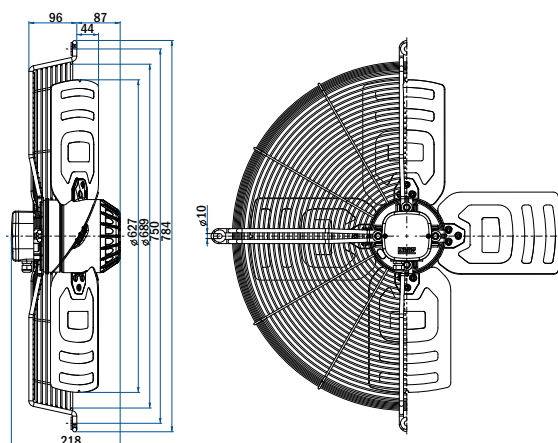
Fan characteristic measured in short bell mouth with guard grillErP
characteristic measured in full bell mouth without guard grill

General notes

Connection diagram: Sucking	0301-1-0033	Page 147
Blowing	0301-1-0033	
Accessories		Page 134
Compliant to standards		Page 28

**Fan with guard grill**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13R-6330A-6T2-7021	0313-4-0050	14.6
Blowing	R13R-6330P-6T2-7021	0313-4-0048	

**Fan with plate**

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13P-6330A-6T2-7021	On request	
Blowing	R13P-6330P-6T2-7021	On request	

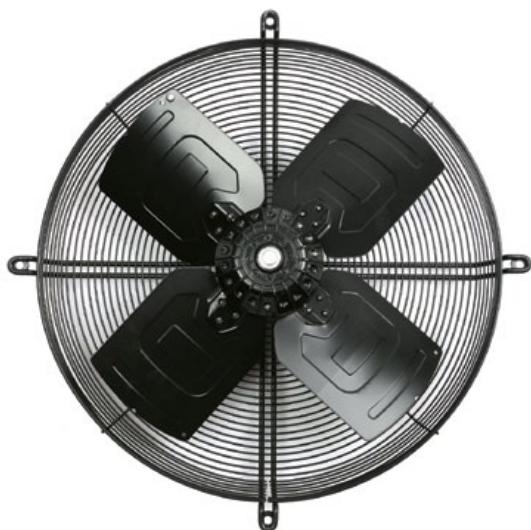
Fan without guard grill

Airflow Direction	Type	Code	Weight (kg)
Sucking	R13E-6330A-6T2-7021	On request	
Blowing	R13E-6330P-6T2-7021	On request	

Diameter:

630 mm

R13_-6335_-8M-7049

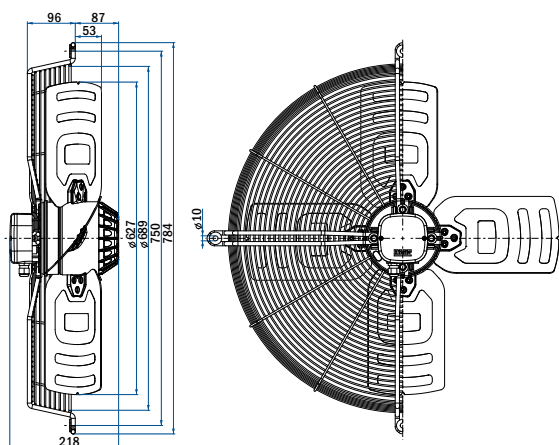


Nominal data according to standard EN 60335:

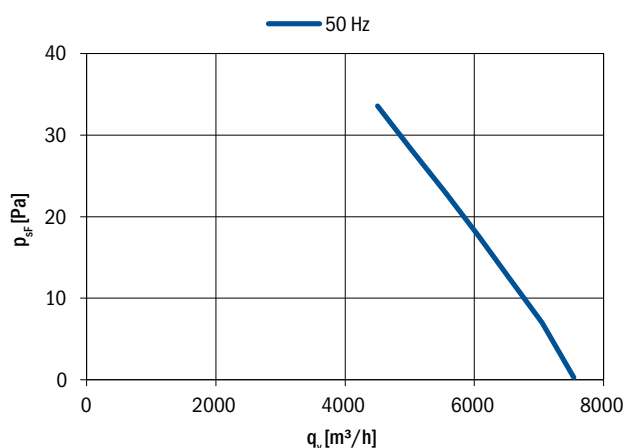
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	265 W
Rated current	1.2 A
Rated speed	610 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	70 °C
Sound power level A weighted	70 dB (A)
Condensator	8 µF/450 V
Connection	terminal box
Insulation class	155
Protection class	IP54

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	



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 diagram: Sucking	0301-1-0044	Page 145
Blowing	0301-1-0043	
Accessories		Page 134
Compliant to standards		Page 28

EC AXIAL FANS
AC AXIAL FANS SICKLED BLADES
AC AXIAL FANS PLASTIC BLADES
AC AXIAL FANS PADDLE BLADES
AC RADIAL FANS BACKWARD CURVED BLADES
ACCESSORIES
CONNECTION DIAGRAMS

05



AC Radial fans Backward curved blades

EC AXIAL FANS

AC AXIAL FANS
SICKLED BLADESAC AXIAL FANS
PLASTIC BLADESAC AXIAL FANS
PADDLE BLADESAC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

CONNECTION DIAGRAMS

AC Radial fans

Backward curved blades

Radial fans with induction (AC) motors



Plastic wheels
Diameter: 190 mm



Steel wheels
Diameters: 220-250 mm



Steel impellers
Diameters: 150-180 mm

Example of type key:

R09T-1945D-2M2-1511

- R09** External rotor motor type (R09)
- T** Blade type (T – backward curved, C – forward curved)
- 19** Fan diameter x 10 (exact diameters are stated in drawings)
- 45** Blade width
- D** Direction of rotation
- 2** Number of motor poles
- M** Number of phases (M – single phase, T – three phase)
- 2** Number of motor speed
- 15** Motor stack height
- 11** Version of electrical construction

Diameter:

190 mm

R09_-1945D-2M-1511



Nominal data according to standard EN 60335:

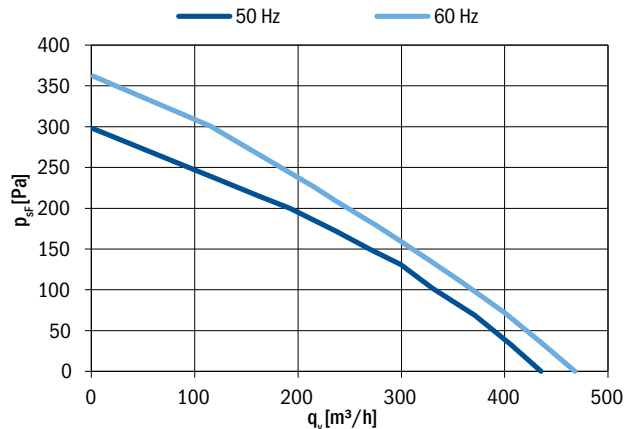
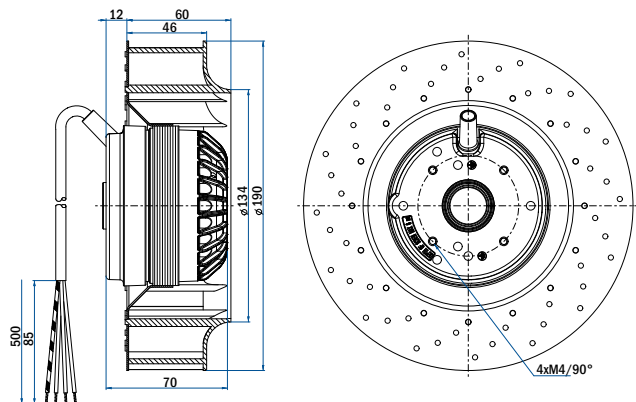
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	50/63 W
Rated current	0.21/0.27 A
Rated speed	2400/2530 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50/50 °C
Sound power level A weighted	60/62 dB (A)
Condensator	2 µF/450 V
Connection	cable
Insulation class	155
Protection class	IP44

ErP data according to EU regulation 327/2011:

Is not subject to the EU regulation 327/2011.

Power input lower than 125 W.

Type	Code	Weight (kg)
R09T-1945D-2M-1511	0309-4-0079	1.4



General notes

Connection diagram:

0301-1-0002

Page 145

R09_-2250D-2M-3510**Diameter:****225 mm****Nominal data according to standard EN 60335:**

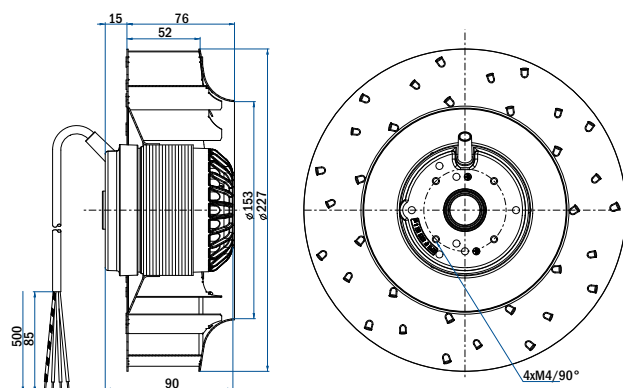
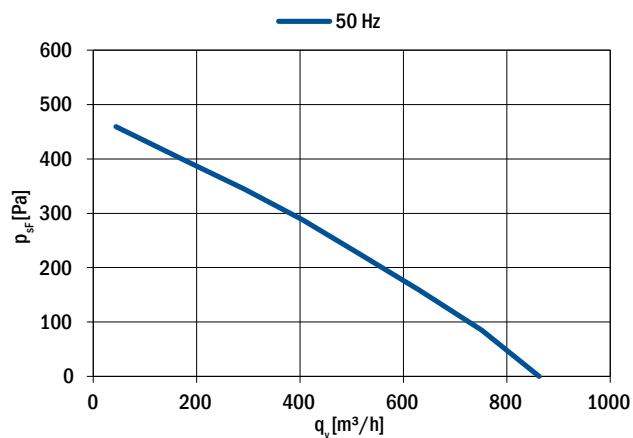
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	98 W
Rated current	0.42 A
Rated speed	2450 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	70 dB (A)
Condensator	3.15 µF/450 V
Connection	cabie
Insulation class	155
Protection class	IP44

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

Power input lower than 125 W.



Type	Code	Weight (kg)
R09T-2250D-2M-3510	0309-4-0066	2.5

**General notes**

Connection diagram:

0301-1-0002

Page 145

Diameter:

250 mm

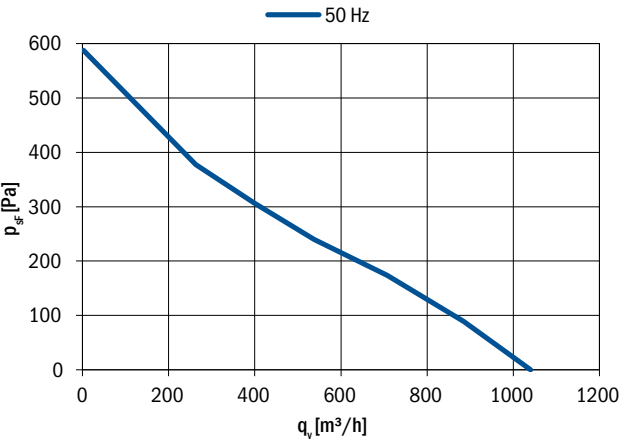
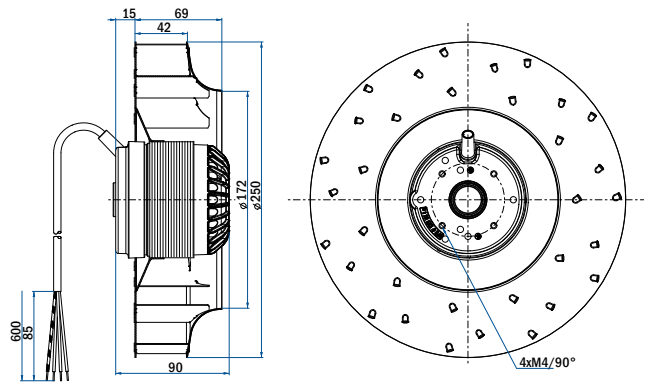
R09_-2540D-2M-3510



Nominal data according to standard EN 60335:

Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	120 W
Rated current	0.52 A
Rated speed	2350 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	50 °C
Sound power level A weighted	72 dB (A)
Condensator	4 µF/450 V
Connection	cabl
Insulation class	155
Protection class	IP44

Type	Code	Weight (kg)
R09T-2540D-2M-3510	0309-4-0025	2.6



General notes

Connection diagram: 0301-1-0002 Page 145

R09_-2540D-4M-2502**Diameter:****250 mm****Nominal data according to standard EN 60335:**

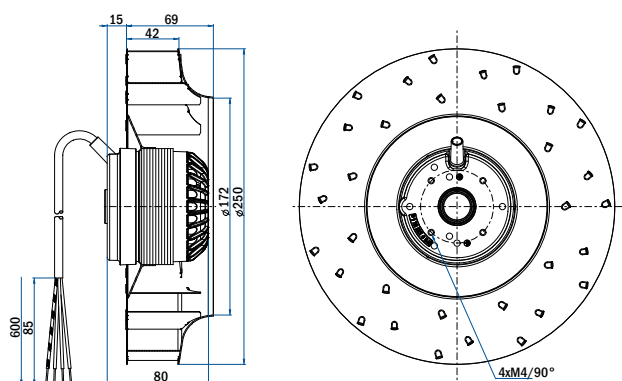
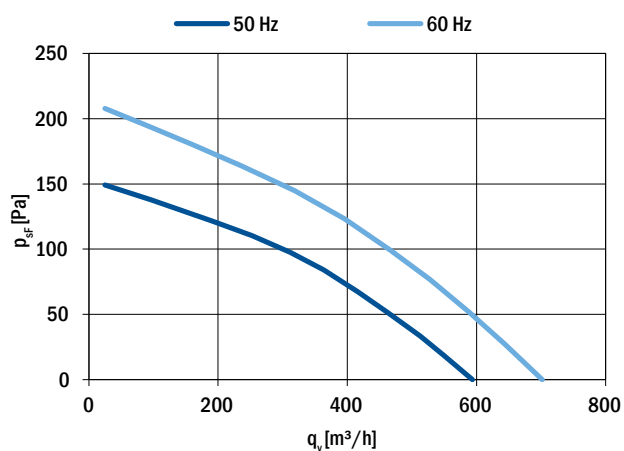
Phase	1~
Nominal voltage	230 V
Frequency	50/60 Hz
Rated power input	43/50 W
Rated current	0.20/0.21 A
Rated speed	1380/1600 RPM
Min. ambient temperature	-30 °C
Max. ambient temperature	45/50 °C
Sound power level A weighted	65/68 dB (A)
Condensator	1.5 µF/450 V
Connection	cable
Insulation class	155
Protection class	IP44

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

Power input lower than 125 W.



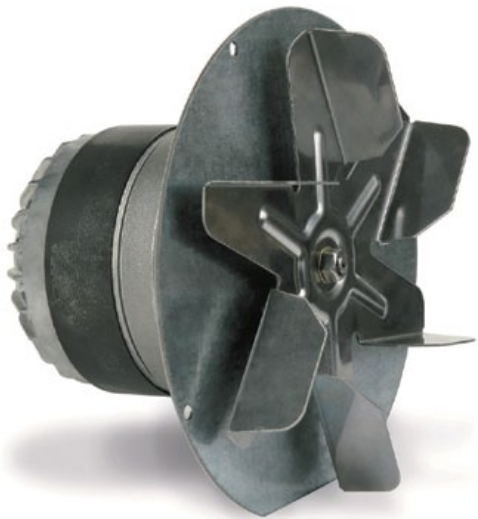
Type	Code	Weight (kg)
R09T-2540D-4M-2502	0309-4-0065	2.1

**General notes**

Connection diagram: 0301-1-0002 Page 145

Diameter: 150 mm

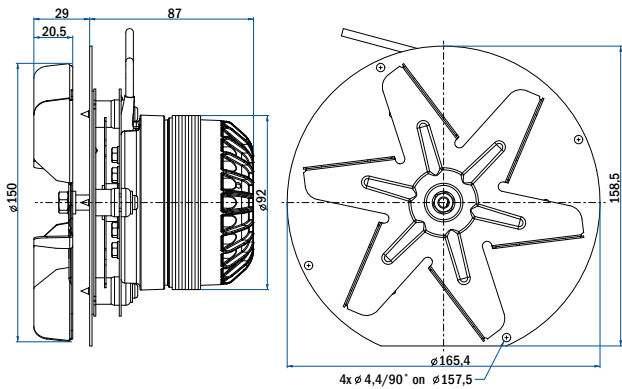
R09X-2M-1533



Nominal data according to standard EN 60335:	
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	28 W
Rated current	0.12 A
Rated speed	2500 RPM
Condensator	1 µF/450 V
Connection	cabl
Insulation class	155
Protection class	IP44

ErP data according to EU regulation 327/2011:
Is not subject to the EU regulation 327/2011.
Power input lower than 125 W.

Type	Code	Weight (kg)
R09X-2M-1533	0309-4-0155	1.9



General notes
Connection diagram: 0301-1-0026 Page 145

R09X-2M-2514**Diameter:****180 mm****Nominal data according to standard EN 60335:**

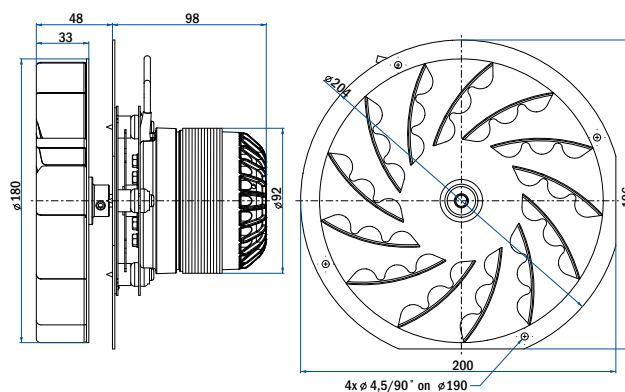
Phase	1~
Nominal voltage	230 V
Frequency	50 Hz
Rated power input	80 W
Rated current	0.36 A
Rated speed	2450 RPM
Condensator	2.5 µF/450 V
Connection	cabie
Insulation class	155
Protection class	IP44

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

Power input lower than 125 W.



Type	Code	Weight (kg)
R09X-2M-1533	0309-4-0304	2.0

**General notes**

Connection diagram: 0301-1-0002 Page 145

06



Accessories

EC AXIAL FANS

AC AXIAL FANS
SICKLED BLADESAC AXIAL FANS
PLASTIC BLADESAC AXIAL FANS
PADDLE BLADESAC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

CONNECTION DIAGRAMS

Accessories

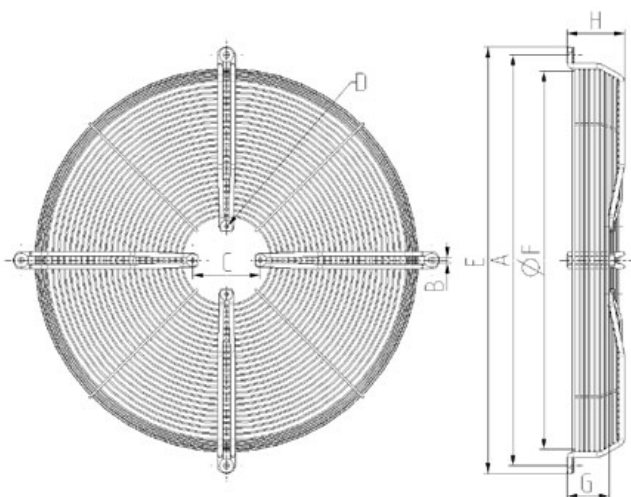
Main dimensions - Basket grills Type 1

Fan dia	Motor type	A	B	C	D	E	Ø F	G	H	Code
450	EC10	515	9	164	Ø 6,5	534	475	47	82	0300-1-3349
450	EC10	515	9	164	Ø 6,5	534	475	68	103	0300-1-3388
500	EC10	565	Ø 11	164	Ø 6,5	590	522	56	93	0300-1-3348
560	EC10	700	Ø 11	164	Ø 6,5	725	645	62	99	0300-1-3409
630	EC10	750	Ø 11	164	Ø 6,5	775	695	81	118	0300-1-3347
630	EC10	750	Ø 11	164	Ø 6,5	775	695	48	85	0300-1-3386
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

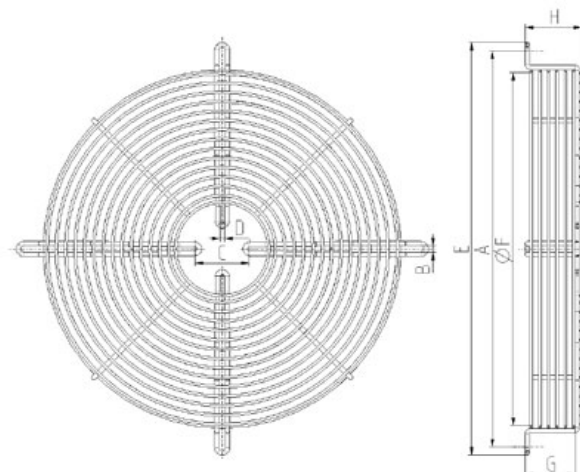
Main dimensions - Basket grills Type 2

Fan dia	Motor type	A	B	C	D	E	Ø F	G	H	Code
250	EC09	300	6.5	125	4.5	314	269	37	45	0300-1-3218
300	EC09	360	6.5	125	4.5	376	316	53	61	0300-1-3217
330 / 315	EC09	400	6.5	125	4.5	416	356	67	75	0300-1-3215
350	EC09	442	6.5	125	4.5	460	376	76	84	0300-1-3198
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

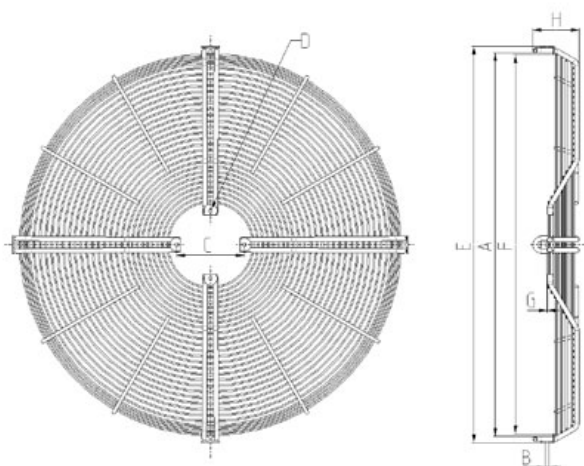
Main dimensions - Basket grills Type 3

Fan dia	Motor type	A	B	C	D	E	F	G	H	Code
500	EC10	519	∅ 11	164	∅ 6,5	537	511	1	50	0300-1-3381
560	EC10	578	∅ 11	164	∅ 6,5	596	570	6	66	0300-1-3398
630	EC10	654	∅ 7	164	∅ 6,5	676	646	6	66	0300-1-3382
560	R13	579	∅ 7	115	∅ 7	601	571	17	94	0300-1-3089
630	R13	654	∅ 7	115	∅ 7	676	646	1	79	0300-1-3087

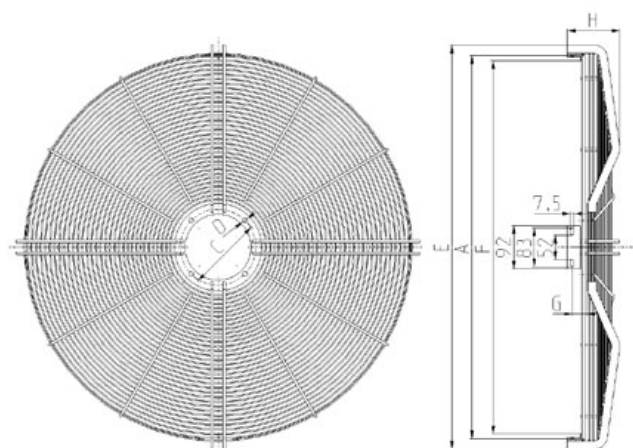
Main dimensions - Basket grills Type 4

Fan dia	Motor type	A	B	C	D	E	F	G	H	Code
710	R18	731	7,5 x 14,5	182	∅ 11	777	715	32	112	0300-1-3077
800	R18	816	7,5 x 15,5	182	∅ 11	816	795	30	112	0300-1-3072

Basket grills Type 3



Basket grills Type 4



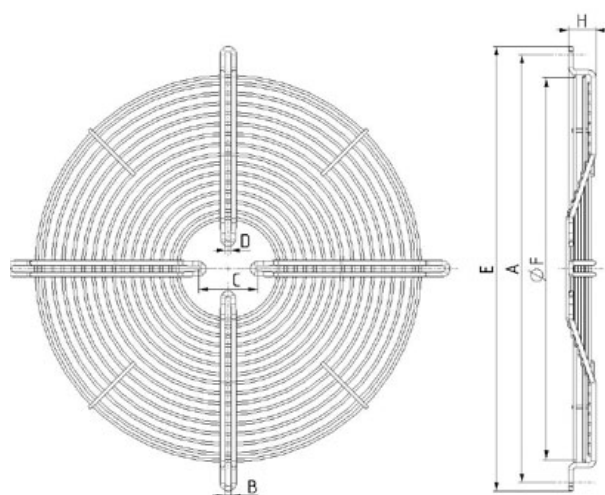
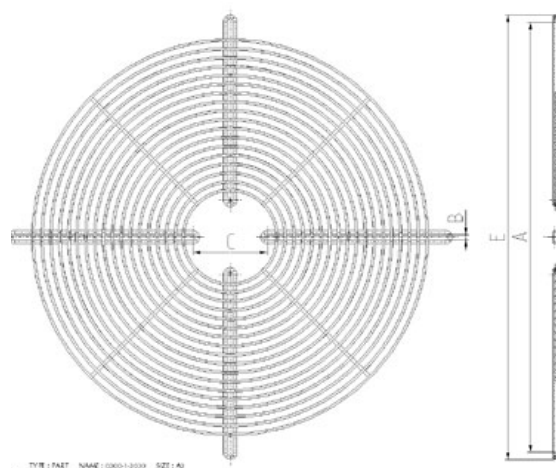
Notes: Surface black painted RAL9005

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
400	EC10	455	9	164	Ø 6,5	474	416	43	78	0300-1-3377
400	EC10	455	9	164	Ø 6,5	474	416	68	103	0300-1-3369
420	EC10	483	9	164	Ø 6,5	502	434	45	80	0300-1-3376
420	EC10	483	9	164	Ø 6,5	502	434	68	103	0300-1-3389
400 / 420	EC10	502	9	164	Ø 6,5	521	461	23	58	0300-1-3390
400 / 420	EC10	502	9	164	Ø 6,5	521	461	-7	28	0300-1-3385
450	EC10	560	9	164	Ø 6,5	579	521	-7	28	0300-1-3383
450	EC10	560	9	164	Ø 6,5	579	521	19	54	0300-1-3393
500	EC10	565	Ø 11	164	Ø 6,5	590	522	56	93	0300-1-3387
500	EC10	615	Ø 11	164	Ø 6,5	640	570	2	38	0300-1-3392
560	EC10	658	Ø 11	164	Ø 6,5	683	613	-6	30	0300-1-3408
630	EC10	720	Ø 11	164	Ø 6,5	745	675	-6	30	0300-1-3391

Main dimensions - Flat grills

Fan dia	Motor type	A	B	C	D	E				Code
200	R09	250	6	58	4.5	314				0300-1-3094
250	R09	300	6	58	4.5	264				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**

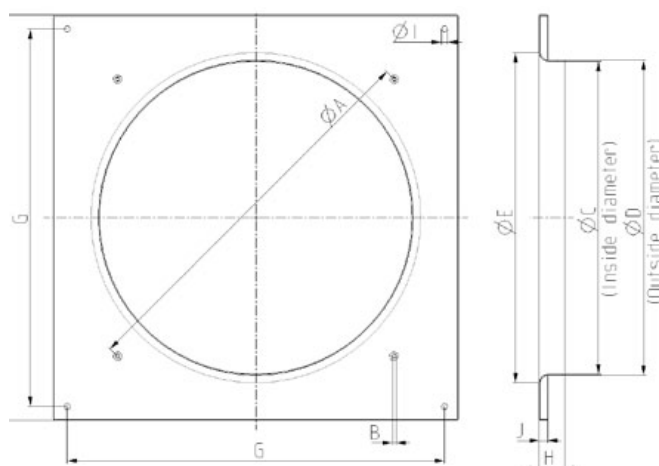
Notes: Surface black painted RAL9005

Wall plates

Main dimensions - Square short wall plates

Fan dia	Airflow direction	A	B	Ø C	Ø D	Ø E	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	0300-4-7073
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	sucking	483	M8	426	429	460	575	535	45	11	15	0300-6-7086
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

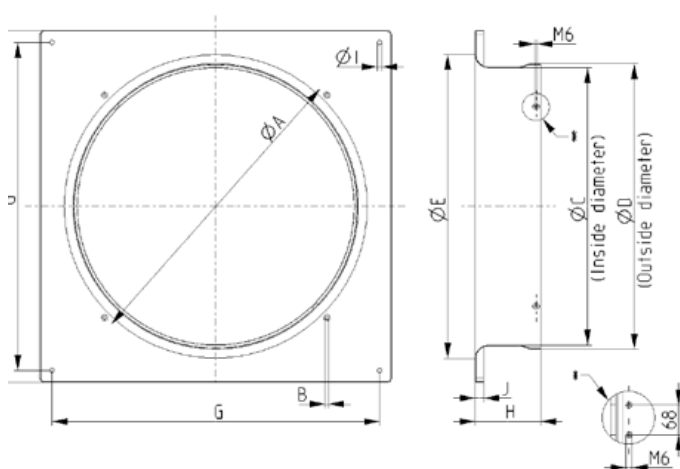
Square short wall plate



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

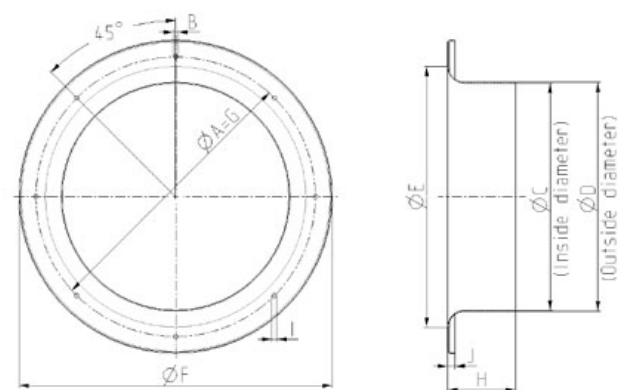
Square long wall plate



Main dimensions - Round long wall plates 1

Fan dia	Airflow direction	A	B	Ø C	Ø D	Ø E	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

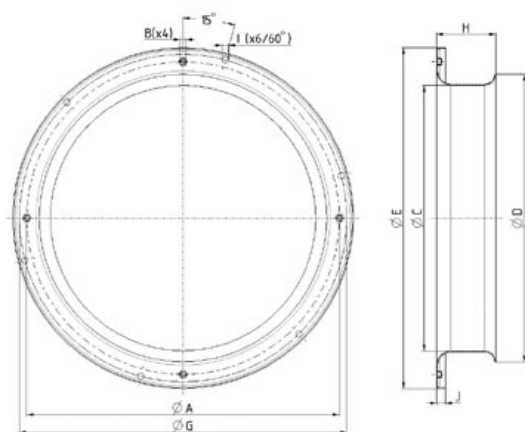


Notes: Surface black painted RAL9005

Main dimensions - Round long wall plates 2

Fan dia	Airflow direction	A	B	Ø C	Ø D	Ø E	q F	G	H	Ø I	J	Code
300	sucking	361	M6	306	326	397	/	380	80	9	11	0300-4-7144
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

EC AXIAL FANS

AC AXIAL FANS
SICKLED BLADES

AC AXIAL FANS
PLASTIC BLADES

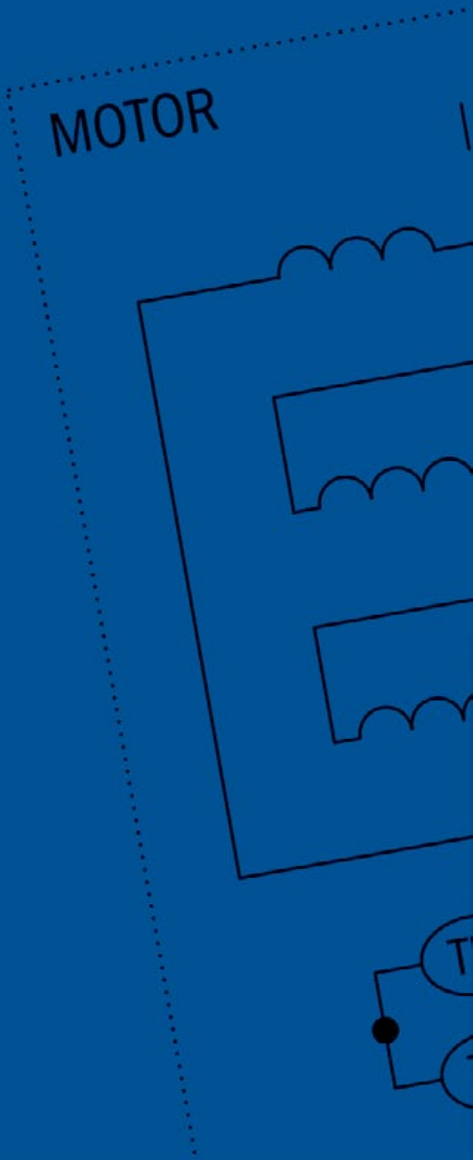
AC AXIAL FANS
PADDLE BLADES

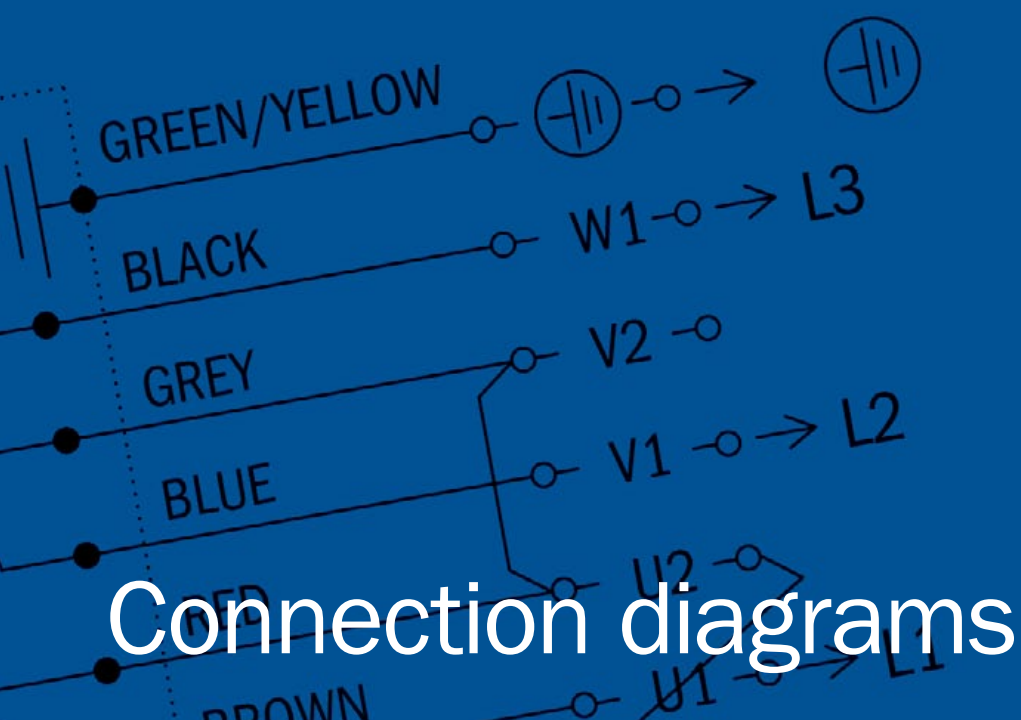
AC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

CONNECTION DIAGRAMS

07





Connection diagrams

EC AXIAL FANS

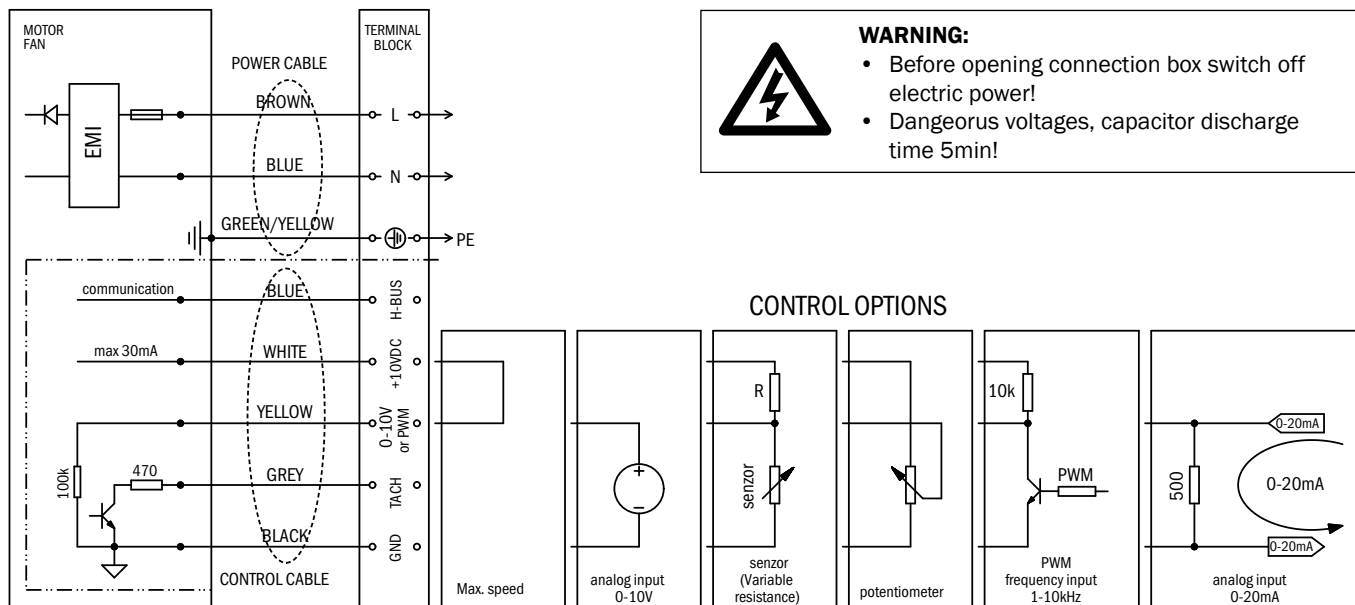
AC AXIAL FANS
SICKLED BLADESAC AXIAL FANS
PLASTIC BLADESAC AXIAL FANS
PADDLE BLADESAC RADIAL FANS
BACKWARD CURVED BLADES

ACCESSORIES

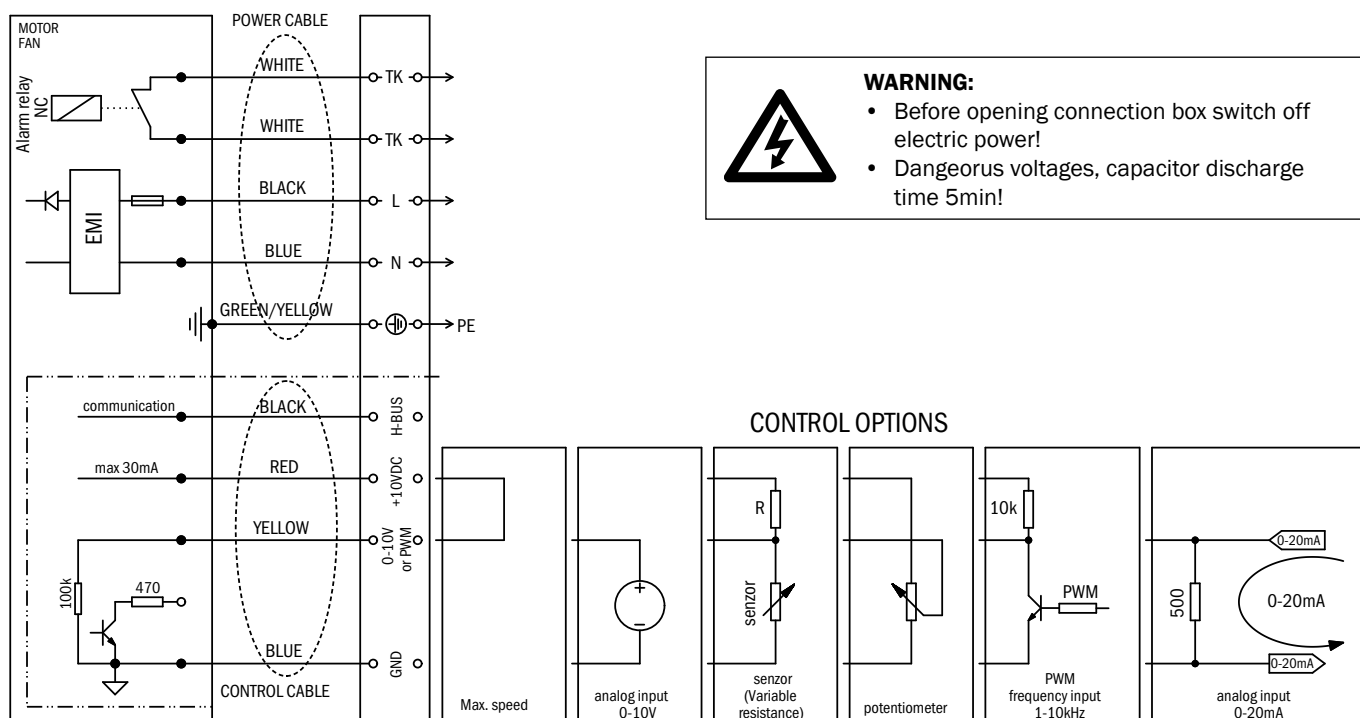
CONNECTION DIAGRAMS

Connection diagrams

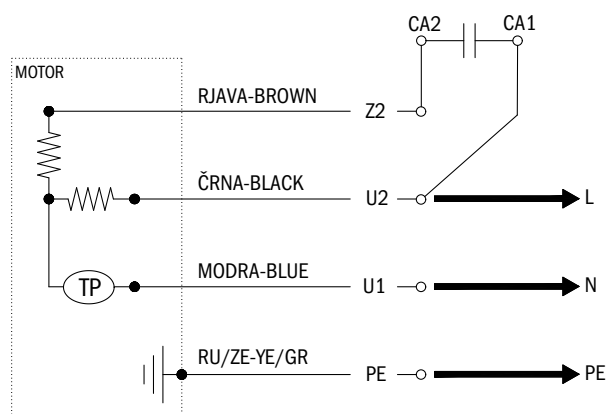
■ CConnection diagrams 0302-1-0000



■ Connection diagrams 0302-1-0100

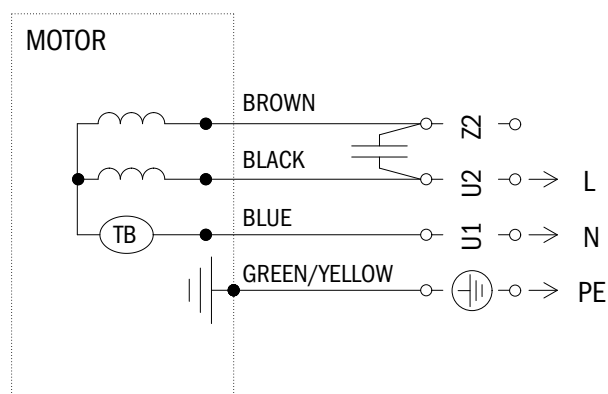


■ Connection diagrams 0301-1-0002

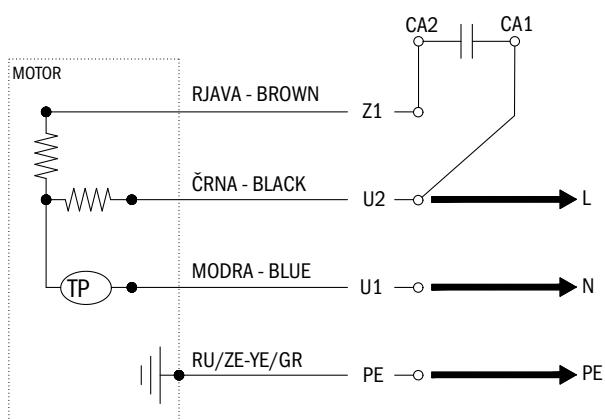


Rotation	L	N	PE	Join together	Protection device	Winding connection
CCW from cable side	U2 (black)	U1 (blue)	PE (ye/gr)	[CA1, U2] [CA2, Z2]	Internally connected	Permanent split phase capacitor motor

■ Connection diagrams 0301-1-0043

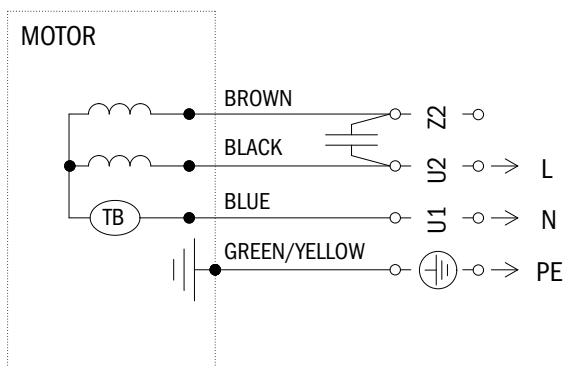


■ Connection diagrams 0301-1-0026

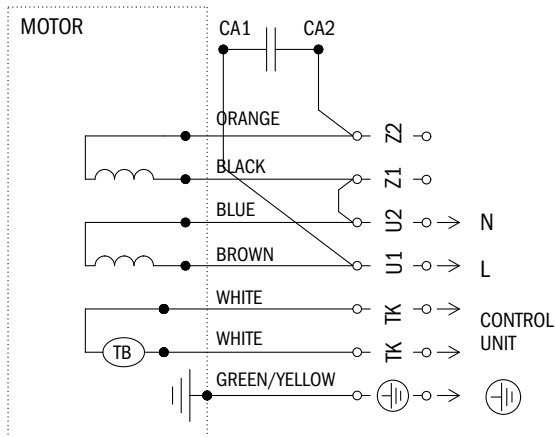


Rotation	L	N	PE	Join together	Protection device	Winding connection
CW from cable side	U2 (black)	U1 (blue)	PE (ye/gr)	[CA1, U2] [CA2, Z2]	Internally connected	Permanent split phase capacitor motor

■ Connection diagrams 0301-1-0044



■ Connection diagrams 0301-1-0029

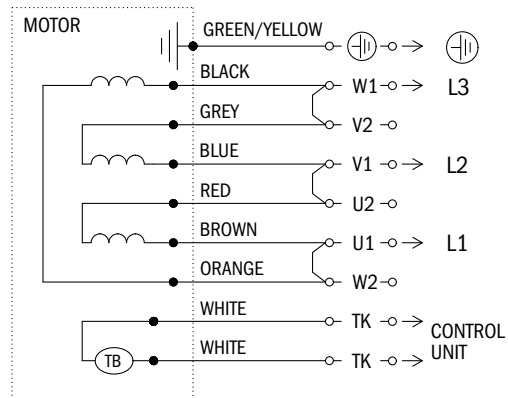


Connection options:

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 0301-1-0048



Connection options:

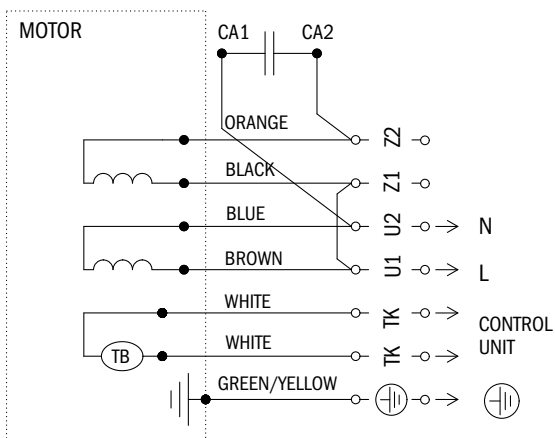
L1	L2	L3	PE	Protection device	Join together	Winding connection
U1	V1	W1	PE	TK, TK	[U1,W2]; [V1,U2]; [W1,V2]	DELTA (Δ) - high speed (STANDARD)
U1	V1	W1	PE	TK, TK	[U2,V2,W2];	STAR (Y) - low speed

* 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

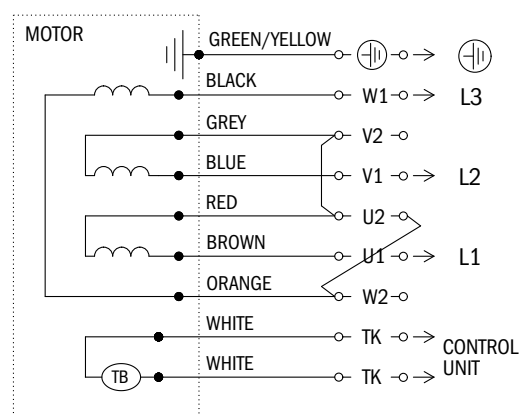


Connection options:

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 0301-1-0049



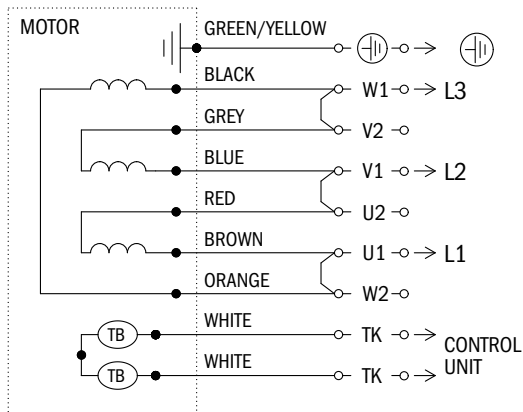
Connection options:

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 0301-1-0033

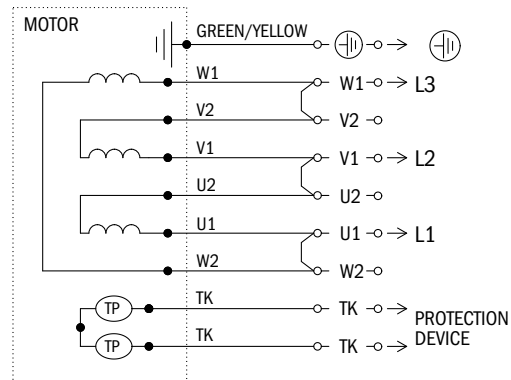


Connection options:

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

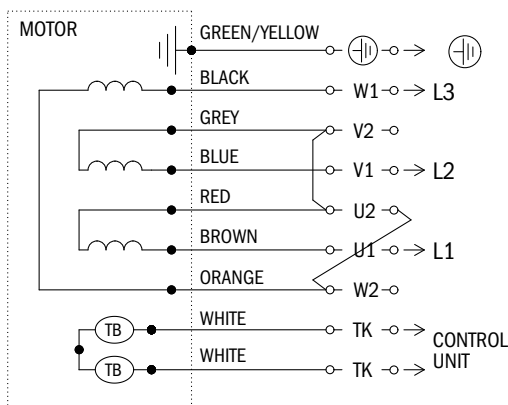


Connection options:

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!

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