

AC centrifugal fan

forward curved, single inlet

with housing (flange)

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Nominal data

Type	G2E146-BF03-53		
Motor	M2E068-EC		
Phase		1~	1~
Nominal voltage	VAC	240	240
Frequency	Hz	50	60
Type of data definition		fa	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	2250	2350
Power input	W	245	295
Current draw	A	1.04	1.25
Motor capacitor	µF	5	5
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. back pressure	Pa	0	100
Max. ambient temperature	°C	65	50
Starting current	A	1.51	1.45

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = $1 + p_g / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	25.8	25.5	32.5
Efficiency grade N	37.3	37	44
Power input P_e	kW	0.15	
Air flow q_v	m ³ /h	355	
Pressure increase p_{fs}	Pa	417	
Speed n	min ⁻¹	2660	

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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Technical features

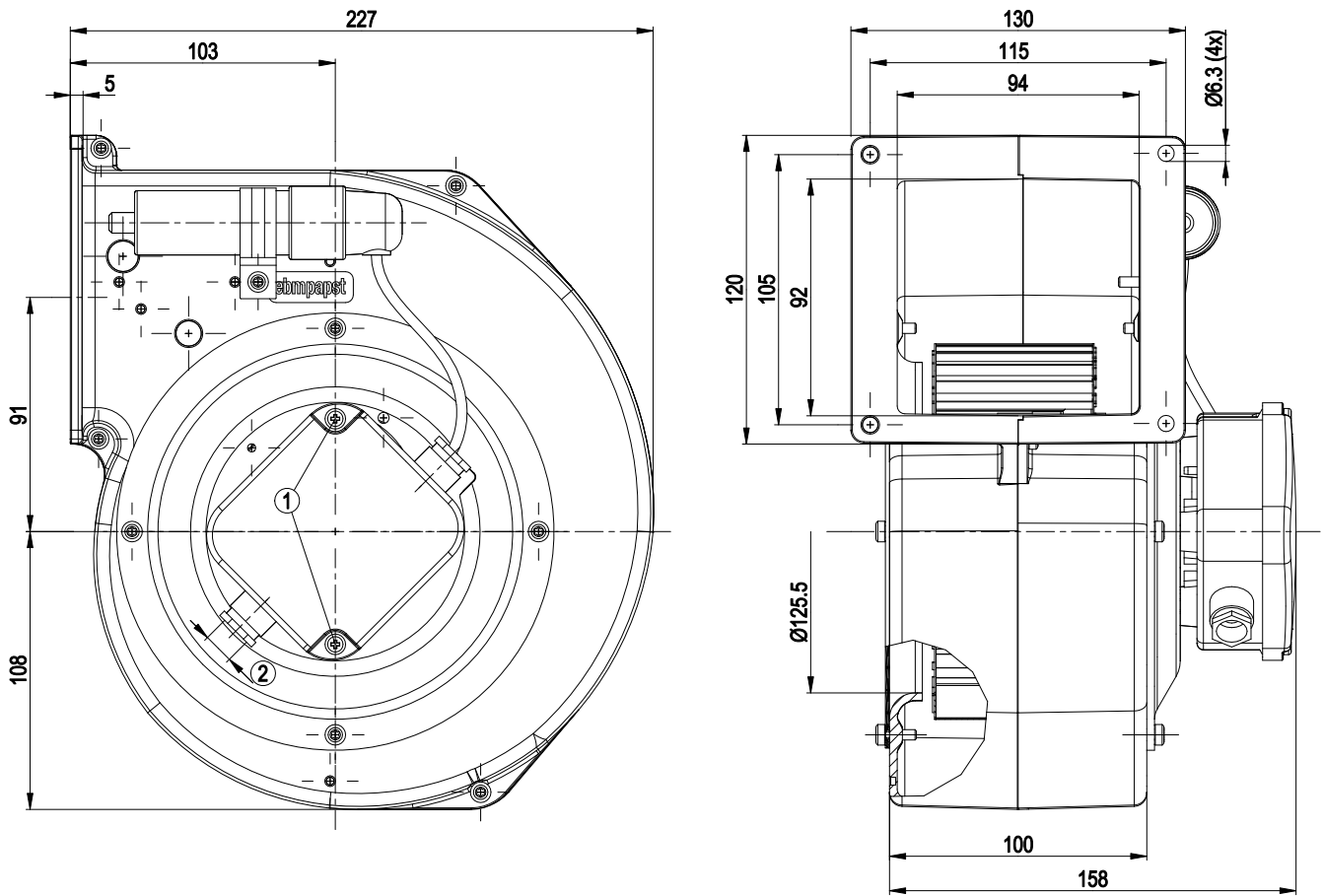
Mass	4.15 kg
Size	146 mm
Surface of rotor	Uncoated
Material of terminal box	Die-cast aluminium
Material of impeller	Sheet steel, hot-galvanised
Housing material	Die-cast aluminium
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Via terminal box, integrated capacitor connected via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE



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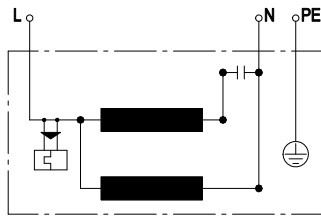
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Product drawing



- 1 Tightening torque 1.3±0.2 Nm
- 2 Cable diameter: min. 6 mm, max. 7 mm; tightening torque: 1.3±0.2 Nm

Connection screen



L	blue	N	black	PE	green/yellow
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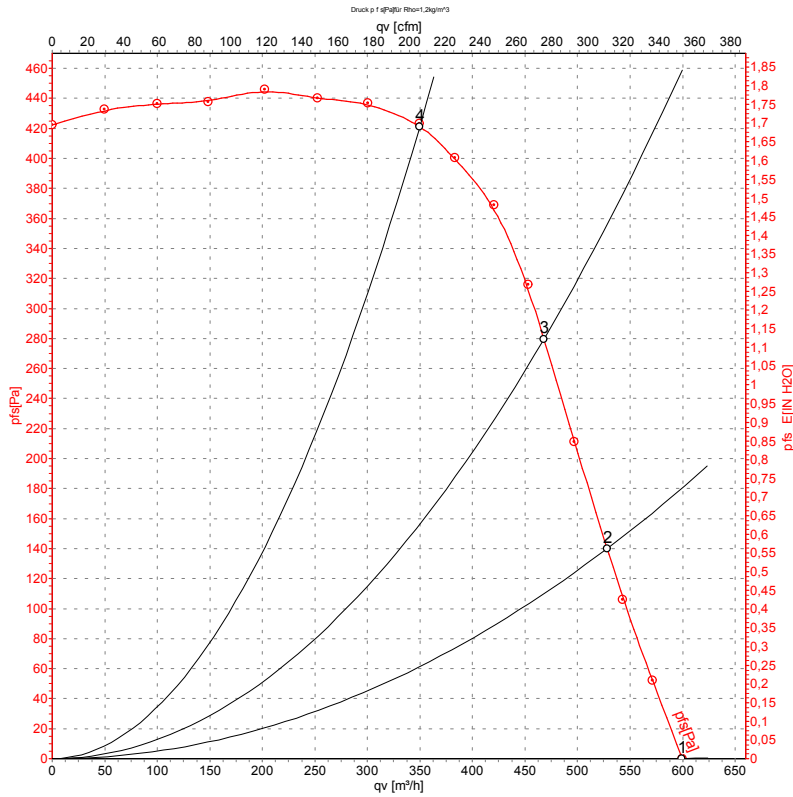


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Charts: Air flow 50 Hz



Measurement: LU-136276

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P _e	I	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	240	50	2250	245	1.04	600	0
2	240	50	2420	213	0.89	530	140
3	240	50	2520	193	0.80	470	280
4	240	50	2660	159	0.67	350	420

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · P_{fs} = Pressure increase

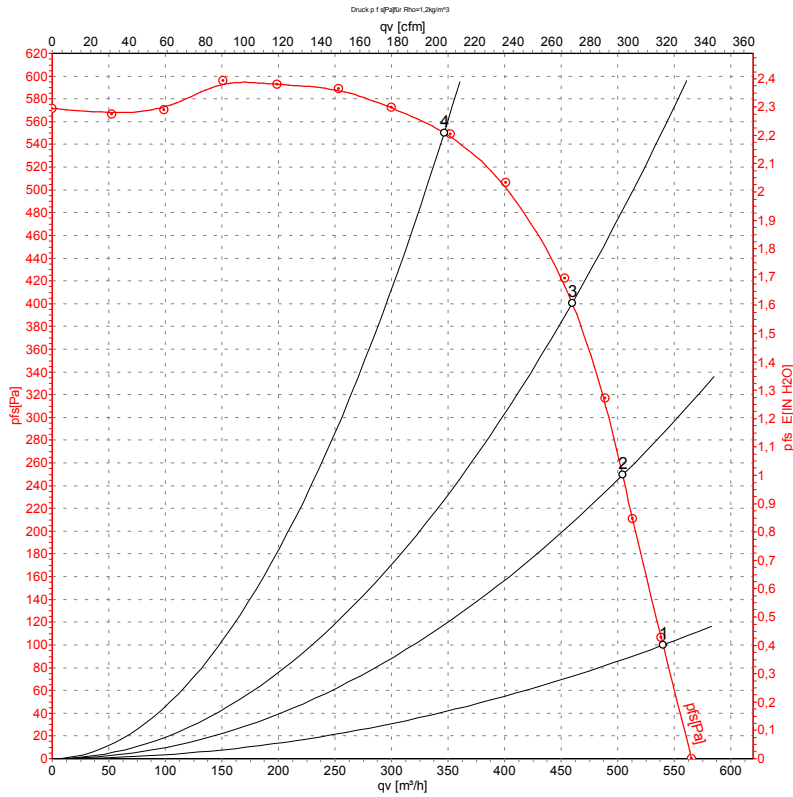


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Charts: Air flow 60 Hz



Measurement: LU-136279

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L_{wA} measured as per ISO 13347 / L_{pA} measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	240	60	2350	295	1.25	540	100
2	240	60	2580	274	1.15	505	250
3	240	60	2755	257	1.08	460	400
4	240	60	3025	220	0.94	345	550

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

