G2E180-AA09-36

AC centrifugal fan

forward curved, single inlet

with housing (flange)

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ErP2013 EXCEEDS THE NORM

Nominal data

Type	**G2E180-AA09-36**
Motor	**M2E068-GA**

Phase		1~
Nominal voltage	VAC	240
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed	min^{-1}	2350
Power input	W	330
Current draw	A	1.4
Motor capacitor	µF	8
Capacitor voltage	VDB	400
Capacitor standard		P2 (CE)
Min. back pressure	Pa	500
Max. ambient temperature	°C	55
Starting current	A	2.27

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*	1.01

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		30.3	27.1	34.1
Efficiency grade N		40.2	37	44
Power input P_e	kW	0.27		
Air flow q_v	m^3/h	455		
Pressure increase p_{fs}	Pa	654		
Speed n	min^{-1}	2575		

Data established at point of optimum efficiency

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Technical features

Mass	5.49 kg
Size	180 mm
Surface of rotor	Uncoated
Material of terminal box	Die-cast aluminium
Material of impeller	Sheet steel, galvanised
Housing material	Die-cast aluminium
Material of guard grille	Steel, phosphated and coated in black plastic
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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

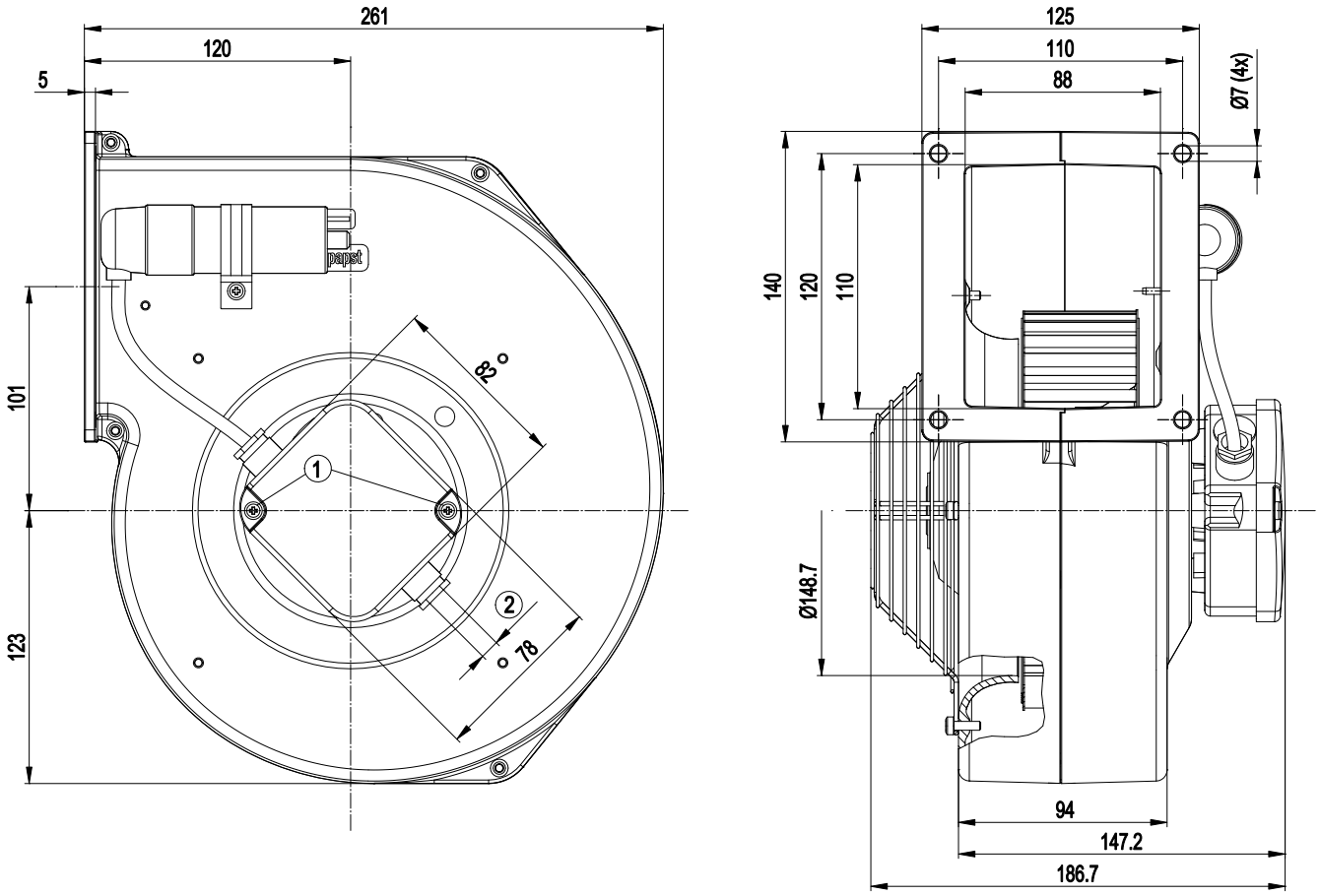
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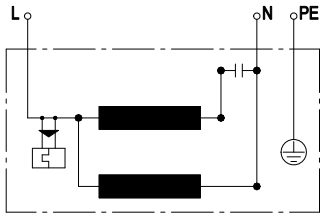
with housing (flange)

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

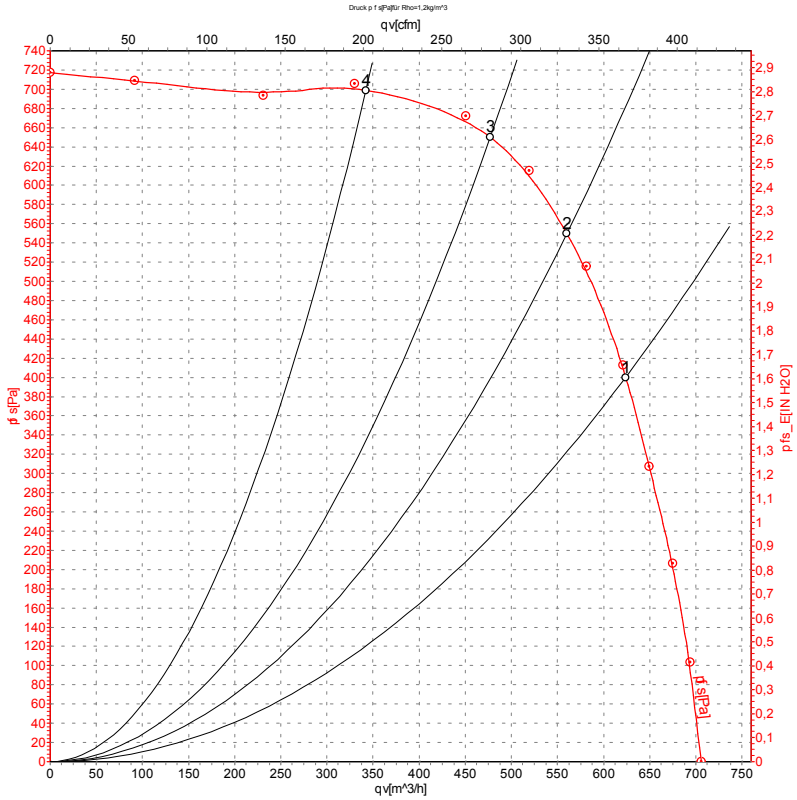
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Charts: Air flow 50 Hz



Measurement: LU-11496

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	360	1.52	625	400
2	240	50	2415	313	1.31	560	550
3	240	50	2540	280	1.17	475	650
4	240	50	2695	227	0.95	340	700

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

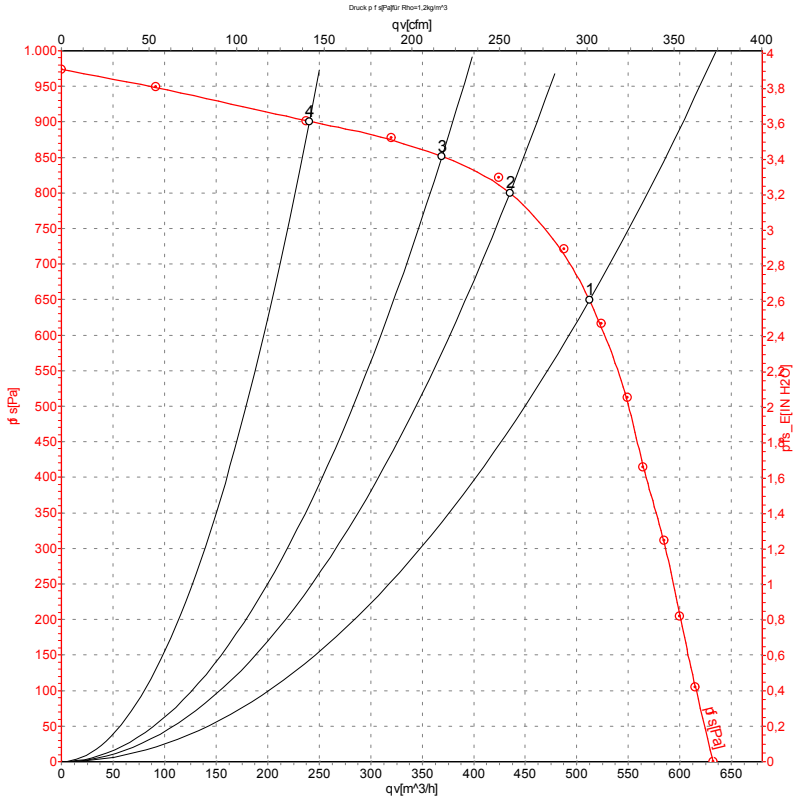
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Charts: Air flow 60 Hz



Measurement: LU-11497

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	60	2550	395	1.66	510	650
2	240	60	2825	356	1.50	435	800
3	240	60	2970	332	1.42	370	850
4	240	60	3155	284	1.27	240	900

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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