

AC centrifugal fan

forward curved, dual inlet
with housing (large flange)

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Nominal data

Type	D4E200-CA02-02		
Motor	M4E068-LA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1100	1250
Power input	W	490	525
Current draw	A	2.15	2.30
Motor capacitor	µF	10	10
Capacitor voltage	VDB	400	400
Capacitor standard		P2 (CE)	P2 (CE)
Min. back pressure	Pa	50	150
Max. ambient temperature	°C	30	30
Starting current	A	3.1	2.9

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	B
Efficiency category	Total
Variable speed drive	No
Specific ratio*	1.00

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

	Actual	Request 2013	Request 2015
Overall efficiency η_e	35.8	32.2	39.2
Efficiency grade N	45.6	42	49
Power input P_e	kW	0.28	
Air flow q_v	m ³ /h	1405	
Pressure increase p_f	Pa	268	
Speed n	min ⁻¹	1365	

Data established at point of optimum efficiency



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Technical features

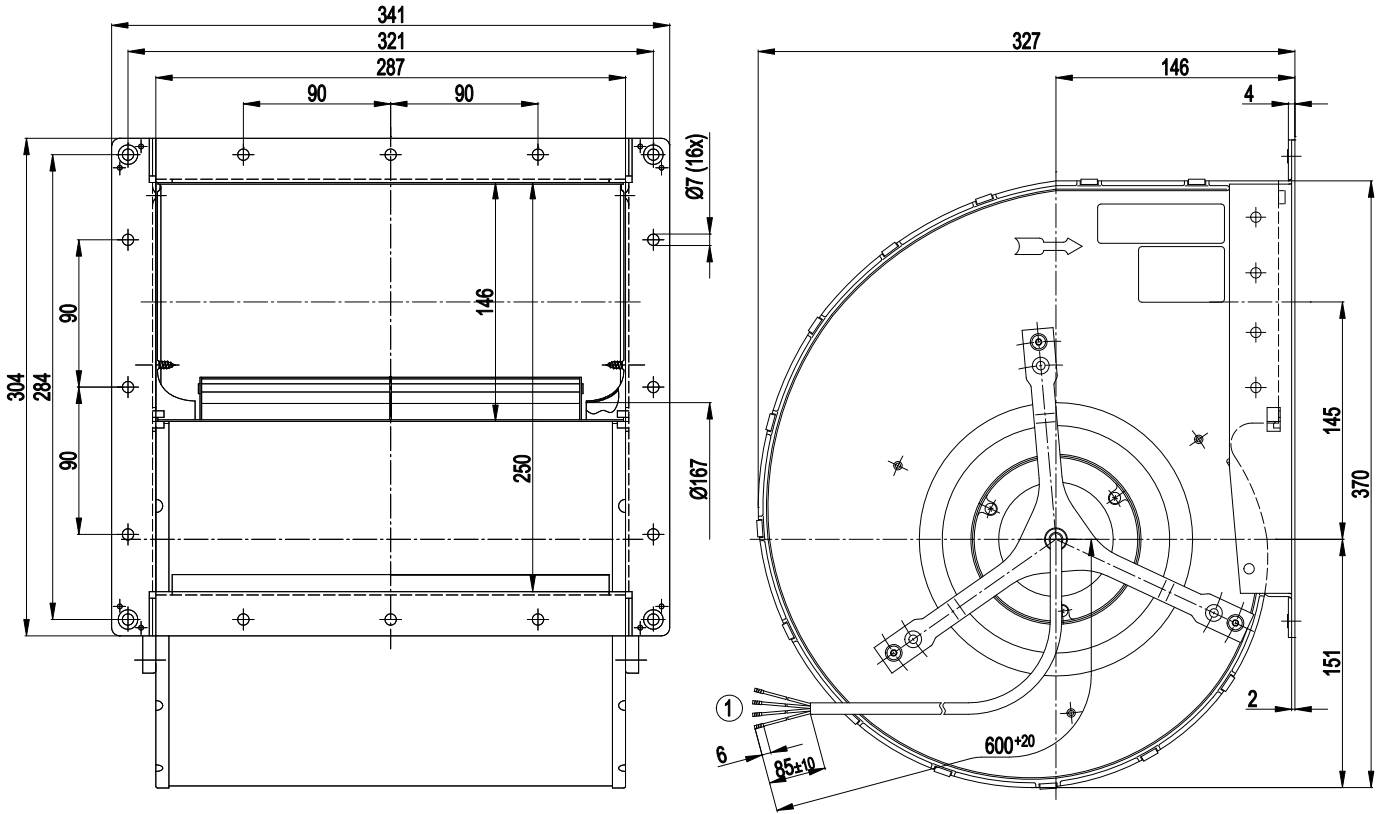
Mass	11.3 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor 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
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
Approval	CCC



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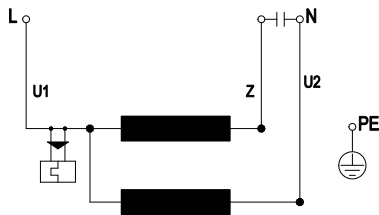
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Product drawing



1 Connection line PVC 4G 0.5 mm², 4x brass lead tips crimped

Connection screen



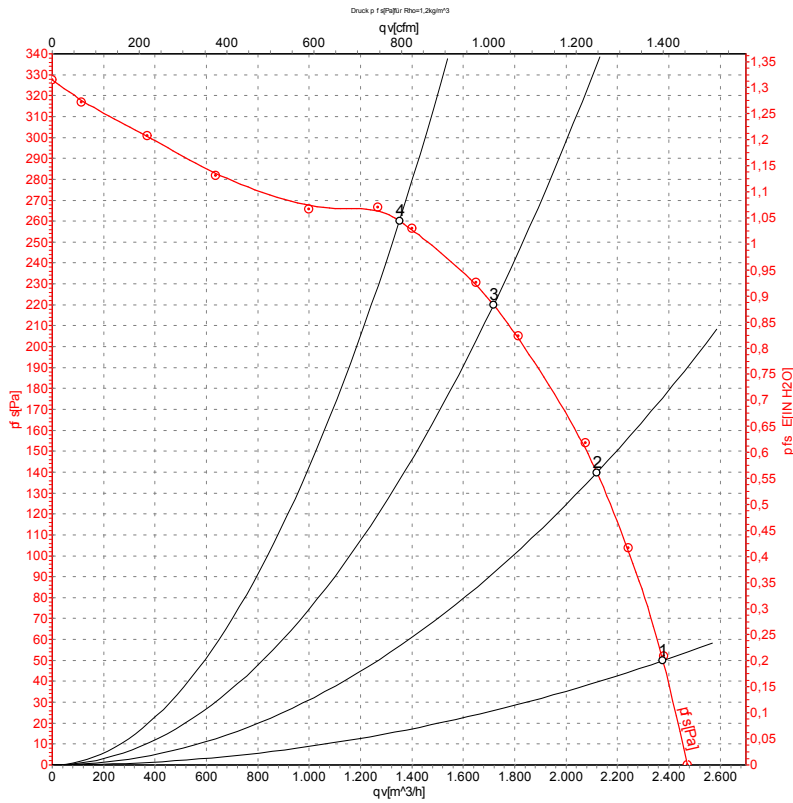
U1	blue	Z	brown	U2	black
PE	green/yellow				



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Charts: Air flow 50 Hz



Measurement: LU-23656

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	230	50	1100	490	2.15	2375	50
2	230	50	1230	413	1.81	2120	140
3	230	50	1315	336	1.47	1720	220
4	230	50	1370	285	1.25	1350	260

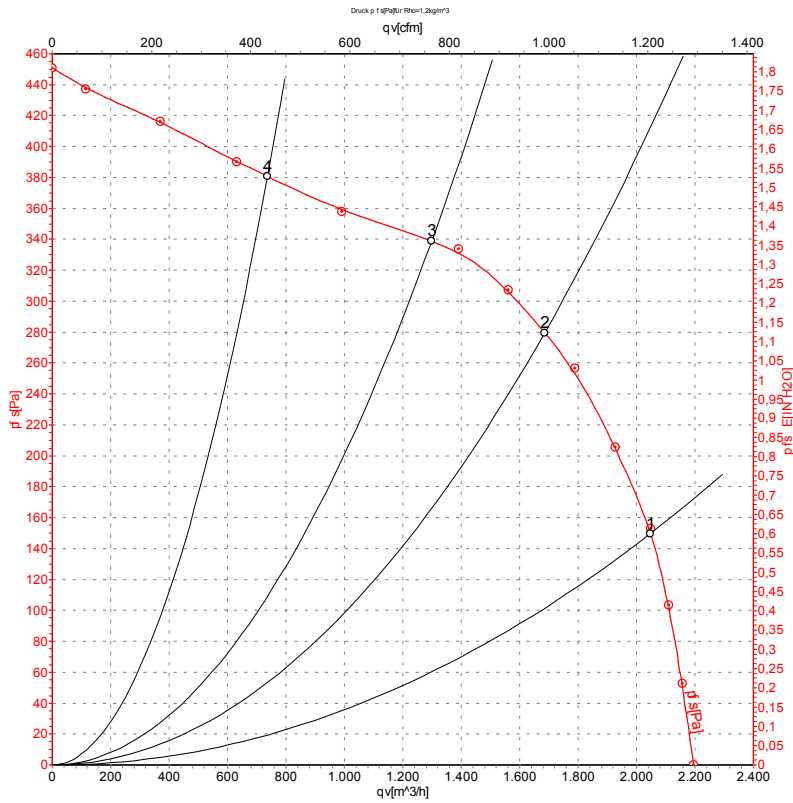
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · P_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-23657

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	230	60	1250	525	2.30	2050	150
2	230	60	1455	426	1.85	1685	280
3	230	60	1565	364	1.59	1300	340
4	230	60	1655	293	1.32	735	380

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

