D4E200-BA01-35

AC centrifugal fan

forward curved, dual inlet

with housing (flange)



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ErP2013 EXCEEDS THE NORM

Nominal data

Type	**D4E200-BA01-35**
Motor	**M4E068-LA**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		-
Valid for approval / standard		CE
Speed	min^{-1}	1070
Power input	W	430
Current draw	A	2.0
Motor capacitor	µF	10
Capacitor voltage	VDB	400
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	-

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_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	32.2	26.9	33.9
Efficiency grade N		42.3	37	44
Power input P_e	kW	0.25		
Air flow q_v	m^3/h	1400		
Pressure increase p_{fs}	Pa	215		
Speed n	min^{-1}	1325		

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	11.4 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Motor suspension	Motor mounted anti-vibration on both sides
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54; Depending on installation and position
Insulation class	"F"
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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

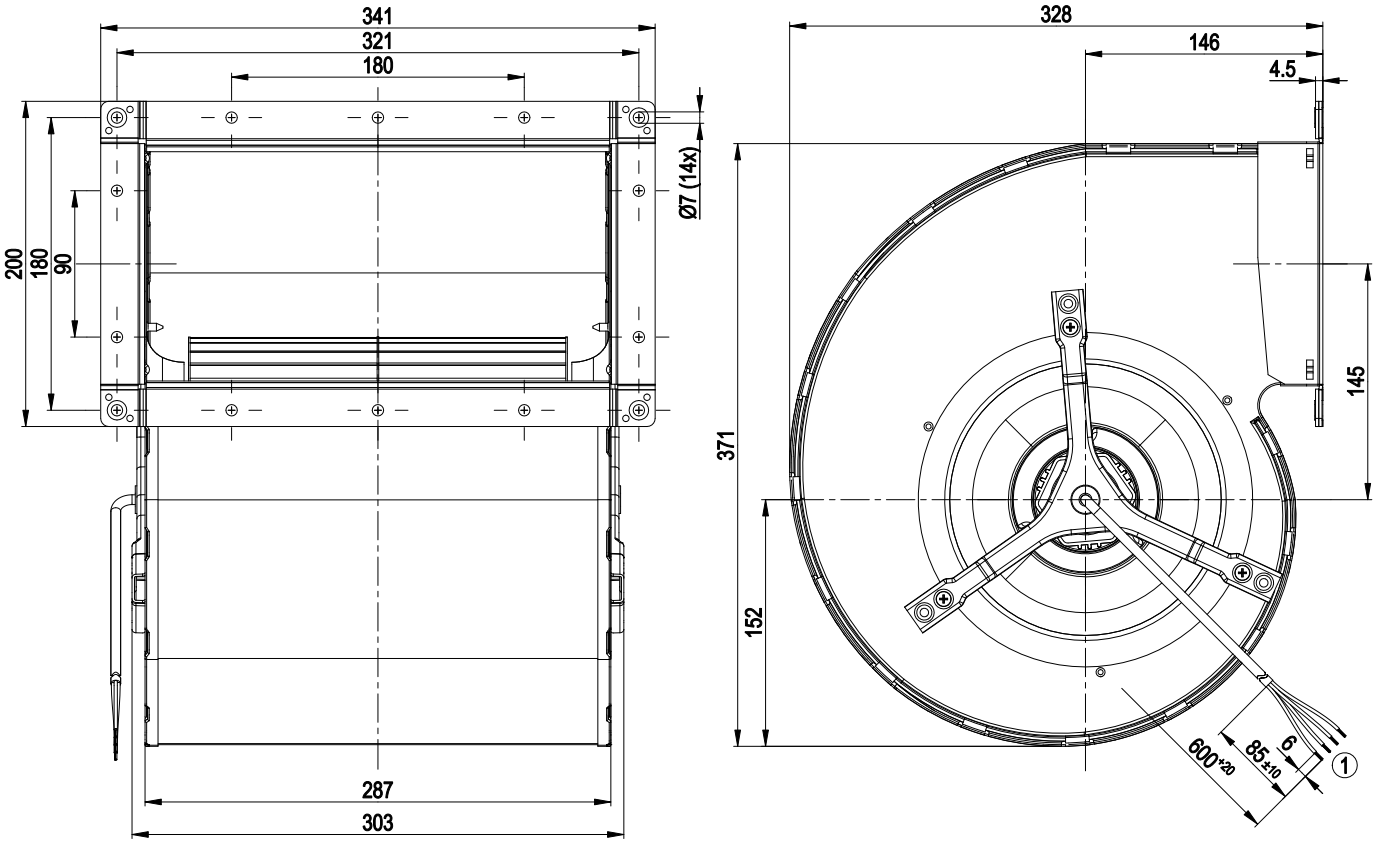
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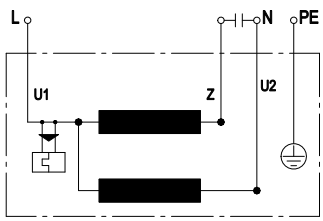
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Product drawing



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

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

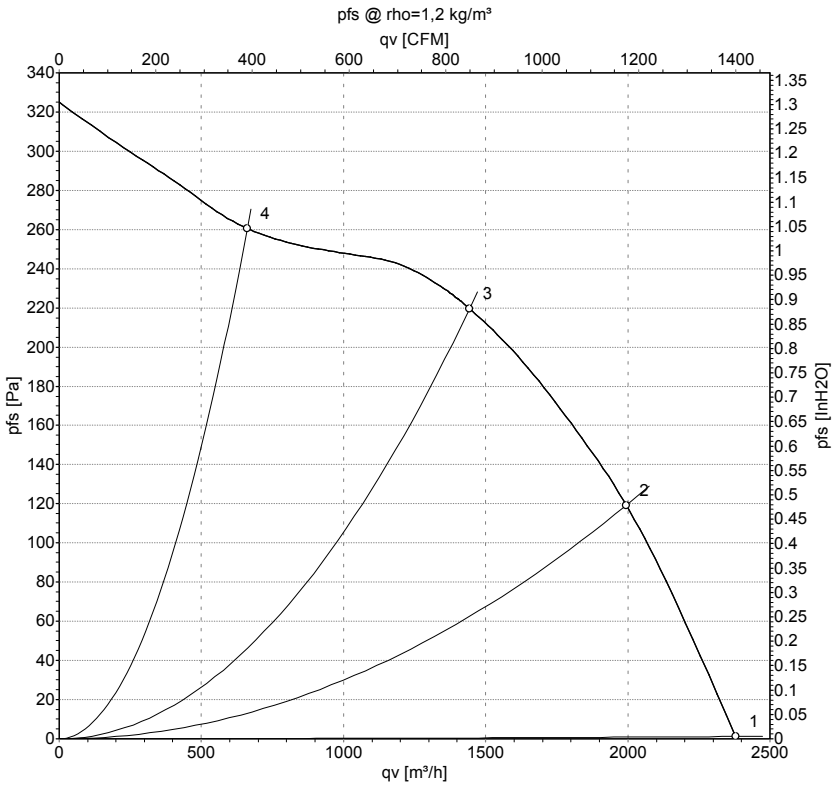
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Charts: Air flow 50 Hz



Measurement: LU-144530

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	1070	430	2.00	2380	0
2	230	50	1210	335	1.47	1995	120
3	230	50	1315	265	1.18	1445	220
4	230	50	1400	198	0.91	660	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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