D4E225-BC15-38

AC centrifugal fan

forward curved, dual inlet

with housing (flange)

D4E225-BC15-38 ebmpapst Datasheet
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Nominal data

Type	**D4E225-BC15-38**
Motor	**M4E074-LA**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed (rpm)	min^{-1}	1100
Power input	W	430
Current draw	A	1.88
Motor capacitor	µF	14
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	150
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Starting current	A	2.6

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

		Actual	Request 2015
01 Overall efficiency η_{es}	%	34.6	34.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		44	44
05 Variable speed drive		No	

09 Power input P_e	kW	0.33
09 Air flow q_v	m^3/h	1500
09 Pressure increase p_{fs}	Pa	273
10 Speed (rpm) n	min^{-1}	1290
11 Specific ratio*		1.00

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

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

LU-78330

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Technical features

Mass	11.8 kg
Size	225 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Material of support structure	Sheet steel, galvanised
Motor suspension	Motor anti-vibration mounted on one side via brackets
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 22
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H0+
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) brought out, basic insulation
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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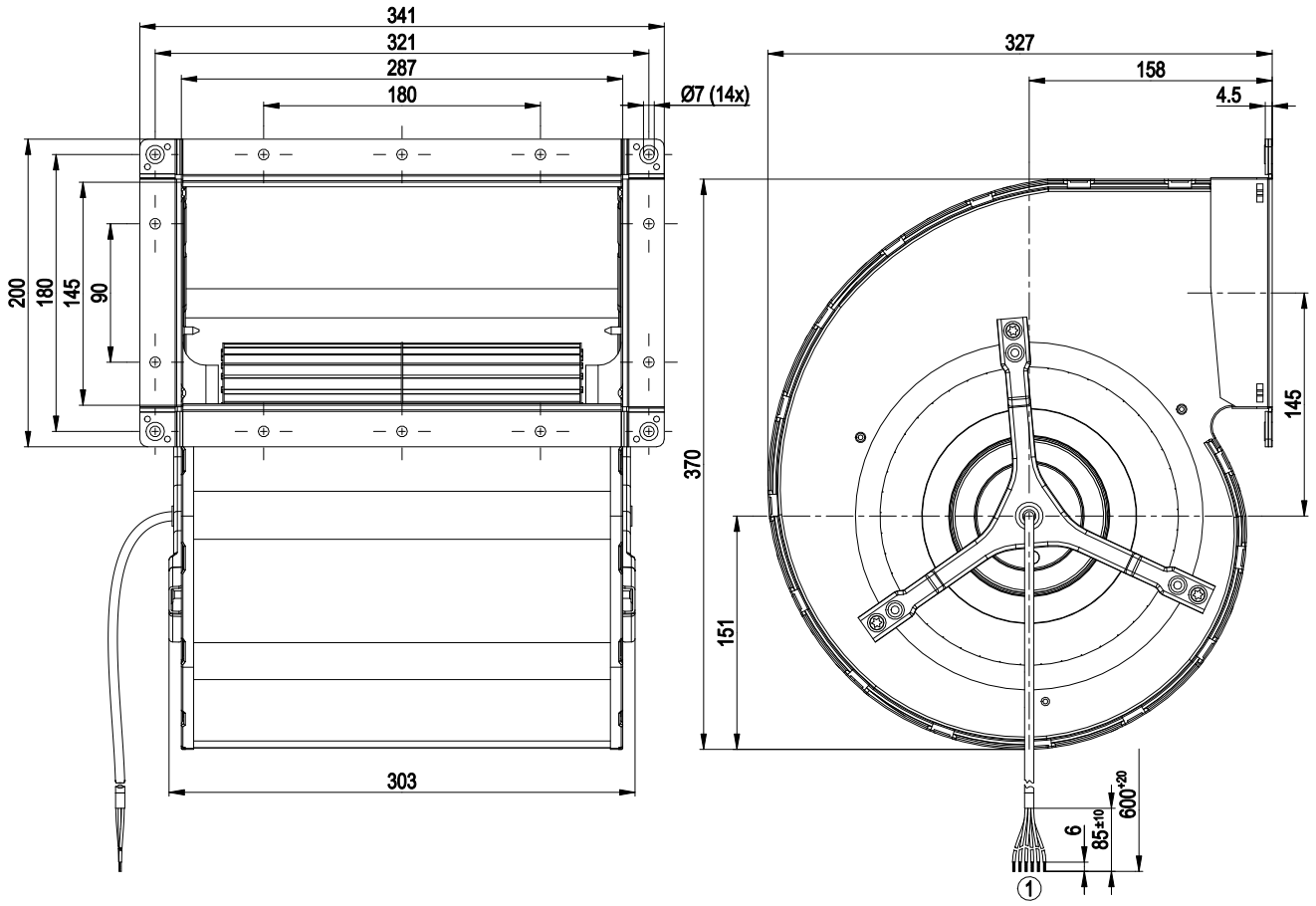
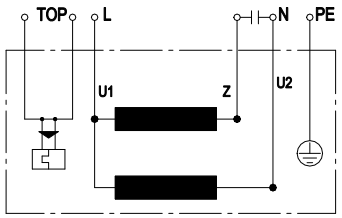
Product drawing



1	Connection line ETFE AWG20, 6x lead tips crimped

Connection screen



U1	Blue	Z	brown	U2	black
PE	green/yellow	TOP	2 x grey		

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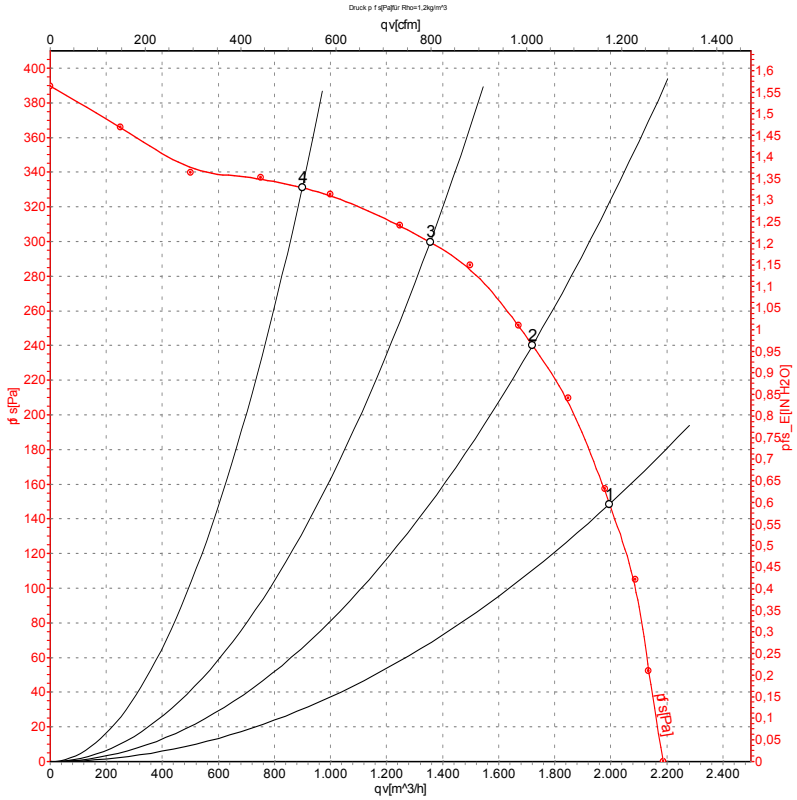
Charts: Air flow 50 Hz



Measurement: LU-78330-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1100	430	1.88	1995	150	1175	0.60
2	230	50	1220	377	1.65	1720	240	1015	0.96
3	230	50	1315	319	1.43	1355	300	800	1.20
4	230	50	1370	267	1.25	900	330	530	1.32

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