D4E225-DH01-01

AC centrifugal fan

forward curved, dual inlet

with housing (large flange)



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Nominal data

Type	**D4E225-DH01-01**		
Motor	**M4E094-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 (rpm)	min^{-1}	1230	1370
Power input	W	1060	1120
Current draw	A	5.38	5.4
Motor capacitor	µF	10	10
Capacitor voltage	VDB	450	500
Min. back pressure	Pa	100	250
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	55	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

		Actual	Request 2015
01 Overall efficiency η_e	%	40.9	40.9
02 Measurement category		B	
03 Efficiency category		Total	
04 Efficiency grade N		49	49
05 Variable speed drive		No	

09 Power input P_e	kW	0.52
09 Air flow q_v	m^3/h	2020
09 Pressure increase p_f	Pa	371
10 Speed (rpm) n	min^{-1}	1415
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_f / 100 000 Pa

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Technical features

Mass	16.5 kg
Size	225 mm
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Motor suspension	Motor anti-vibration mounted on both sides
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 10; (Motor); depending on installation and position
Insulation class	"F"
Humidity (F)/environmental protection class (H)	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, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Product conforming to standard	EN 60034-1 (2004); CE
Approval	CCC; EAC

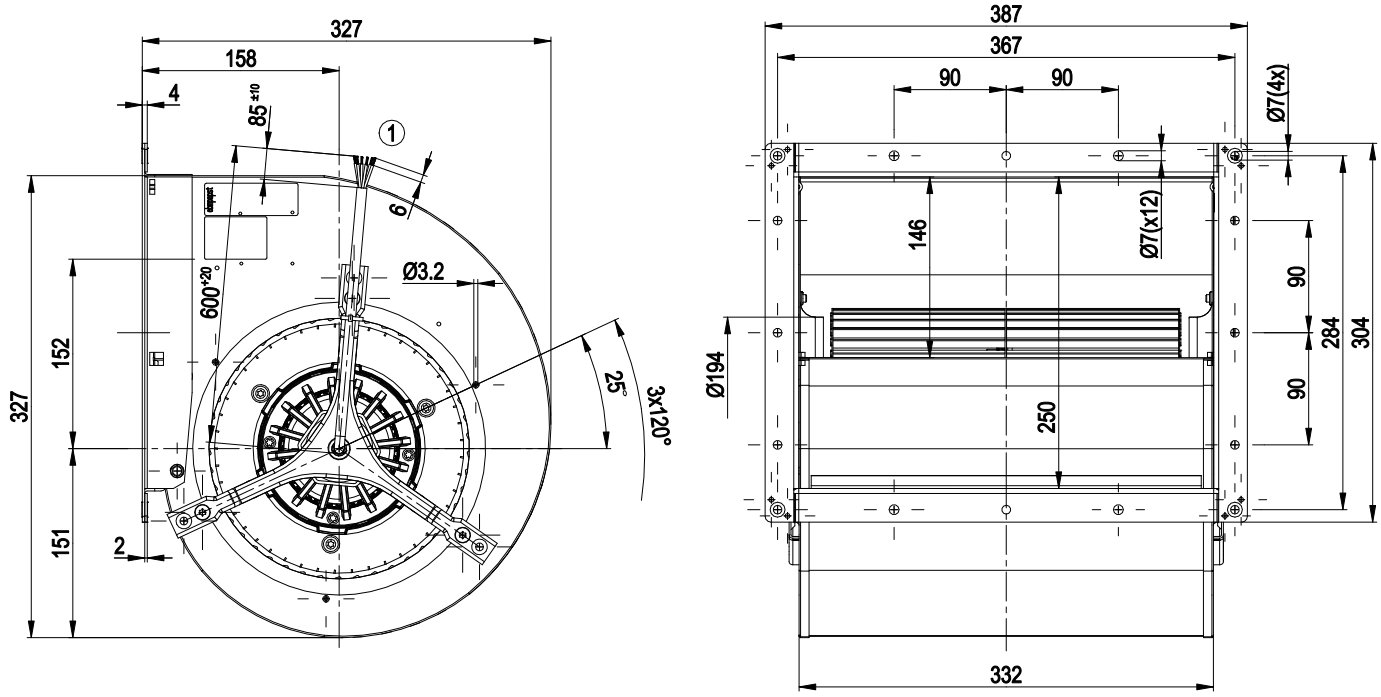
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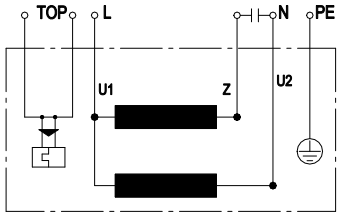
with housing (large flange)

Product drawing



1	Connection line PFA 0.5 mm², 6x brass lead tips crimped

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow	TOP	2 x white		

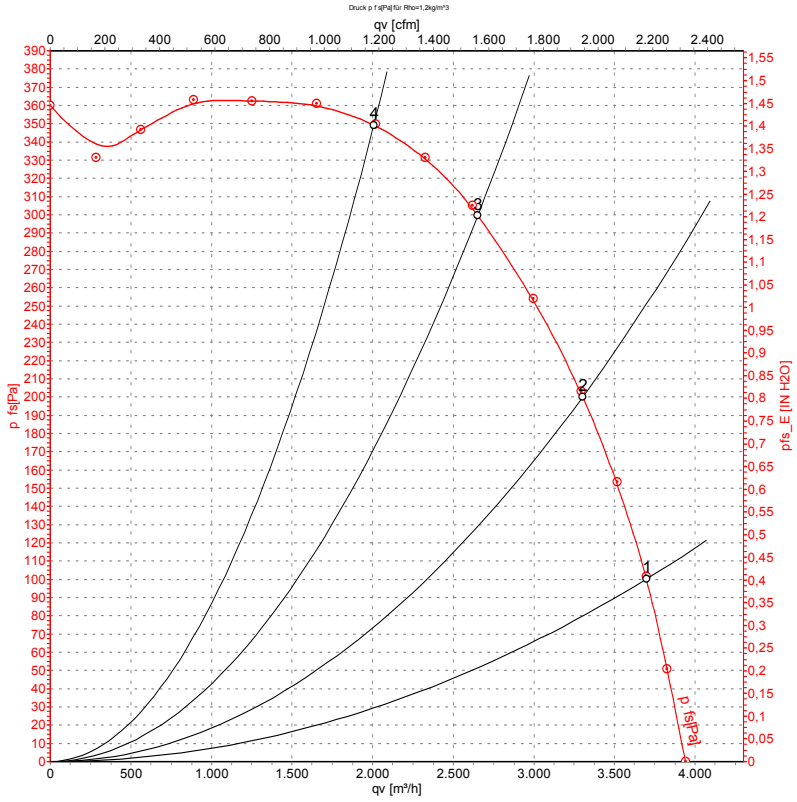
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Charts: Air flow 50 Hz



Measurement: LU-41783-1

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	1230	1060	5.38	3700	100	2175	0.40
2	230	50	1310	858	4.39	3300	200	1945	0.80
3	230	50	1375	661	3.55	2650	300	1560	1.20
4	230	50	1415	519	3.02	2005	350	1180	1.41

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

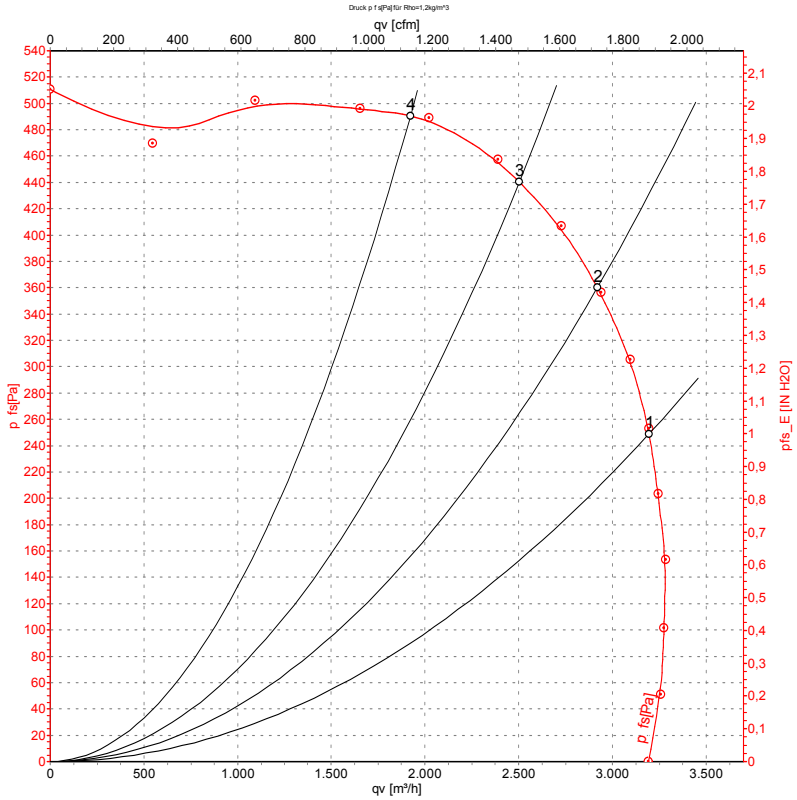
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Charts: Air flow 60 Hz



Measurement: LU-41784-1

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	60	1370	1120	5.40	3195	250	1880	1.00
2	230	60	1505	958	4.51	2920	360	1720	1.45
3	230	60	1595	805	3.70	2505	440	1475	1.77
4	230	60	1670	640	2.90	1920	490	1130	1.97

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

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