

D4E250-BA01-01

AC centrifugal fan

forward curved, dual inlet

with housing (flange)



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Nominal data

Type	D4E250-BA01-01		
Motor	M4E094-LA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1210	1460
Power input	W	1240	1230
Current draw	A	6	5.54
Motor capacitor	μF	14	14
Capacitor voltage	VDB	500	500
Min. back pressure	Pa	0	300
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	45
Starting current	A	15	12.5

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 = $1 + p_g / 100\,000\text{ Pa}$

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	36.3	29.3	36.3
Efficiency grade N		44	37	44
Power input P_e	kW	0.61		
Air flow q_v	m ³ /h	2000		
Pressure increase p_{fs}	Pa	385		
Speed n	min ⁻¹	1415		

Data definition with optimum efficiency.

LU-66744

The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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Technical features

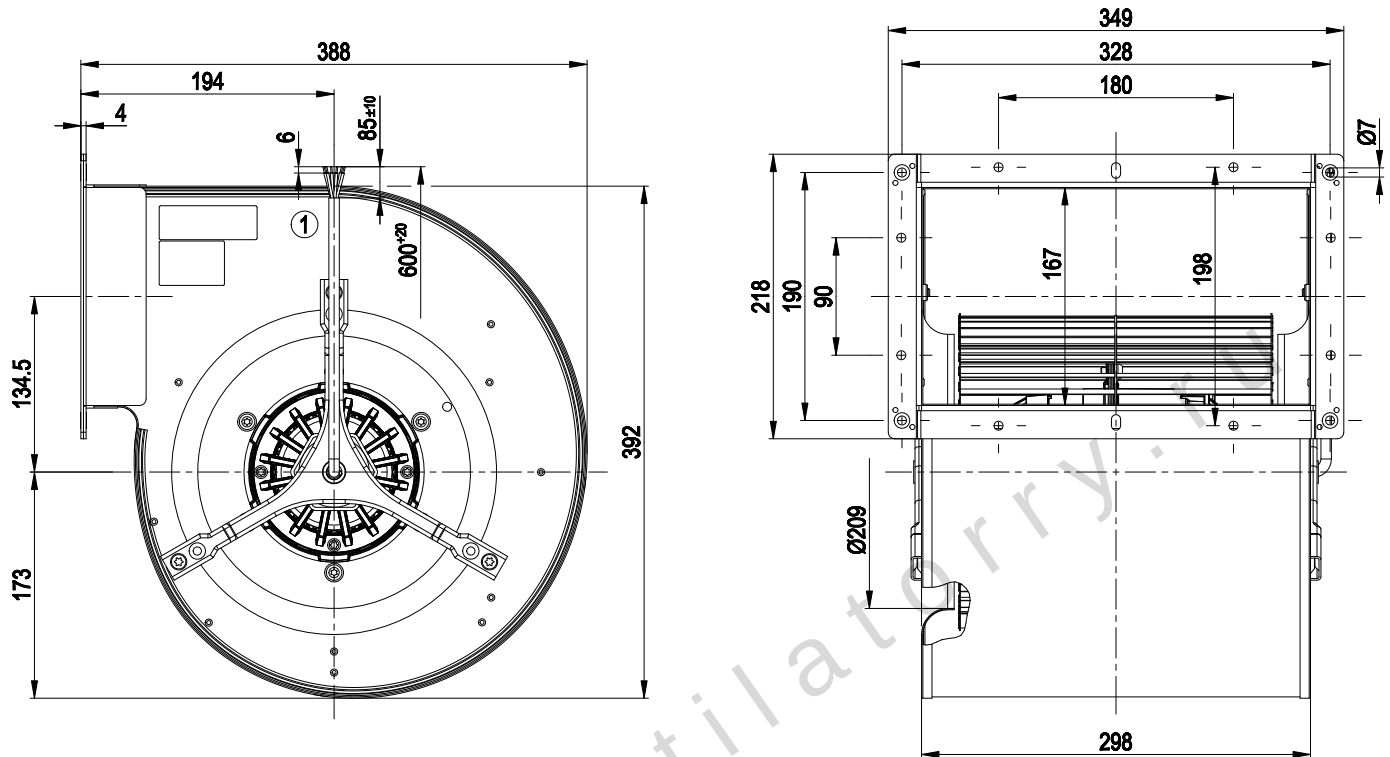
Mass	17.4 kg
Size	250 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None, 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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2010); CE
Approval	EAC

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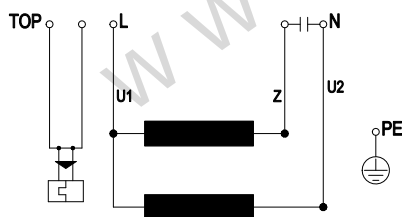
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Product drawing



1 Connection line ETFE AWG18, 6 x brass lead tips crimped

Connection screen



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

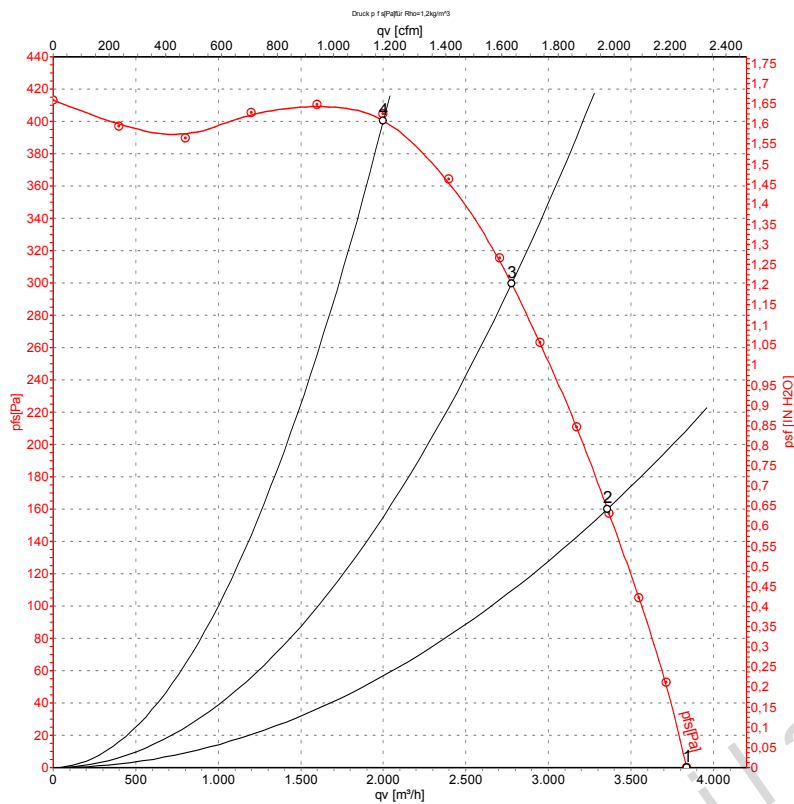
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Charts: Air flow 50 Hz



Measurement: LU-66744

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: L_{WA} measured as per ISO 13347 /
L_{pA} 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	m³/h	Pa
1	230	50	1210	1240	6.00	3840	0
2	230	50	1310	978	4.76	3360	160
3	230	50	1365	803	3.96	2780	300
4	230	50	1415	612	3.18	2000	400

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

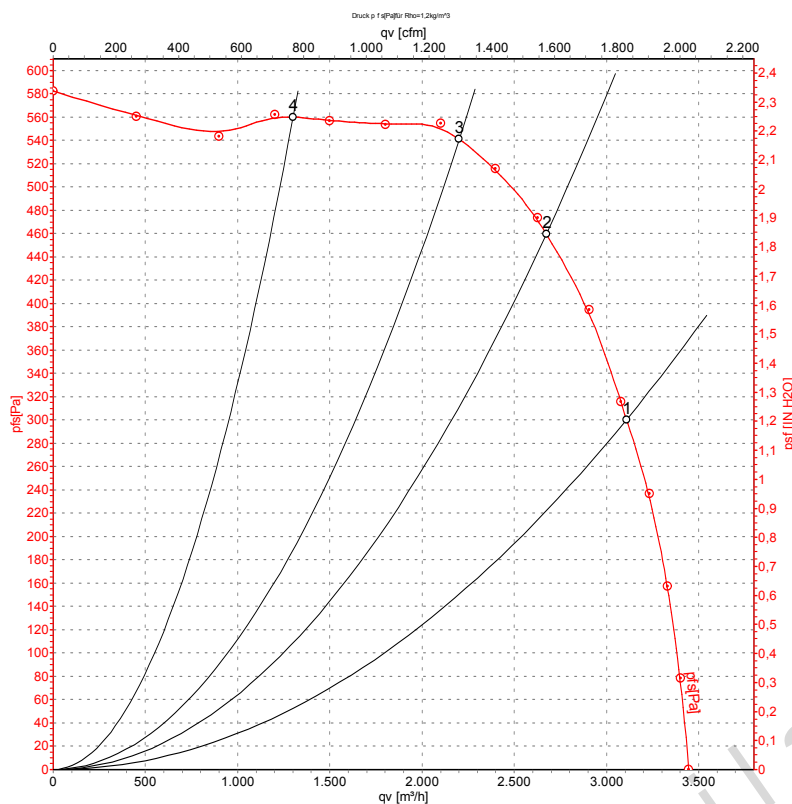
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Charts: Air flow 60 Hz



Measurement: LU-66745

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	m³/h	Pa
1	230	60	1460	1230	5.54	3110	300
2	230	60	1565	1040	4.63	2675	460
3	230	60	1630	902	3.96	2200	540
4	230	60	1700	747	3.25	1300	560

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