

KARTA KATALOGOWA

D4E250-CA01-01

Wentylator promieniowy AC, łopatki zakrzywione do przodu, dwustronnie ssący, w obudowie z dużym kołnierzem

Producent: ebm-papst



Dane znamionowe

Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	1200 / 1400 obr/min
Pobór mocy	1250 / 1285 W
Pobór prądu	6,0 / 5,9 A
Kondensator	14 µF / 500 V
Temperatura otoczenia	-40...+40 °C

Budowa

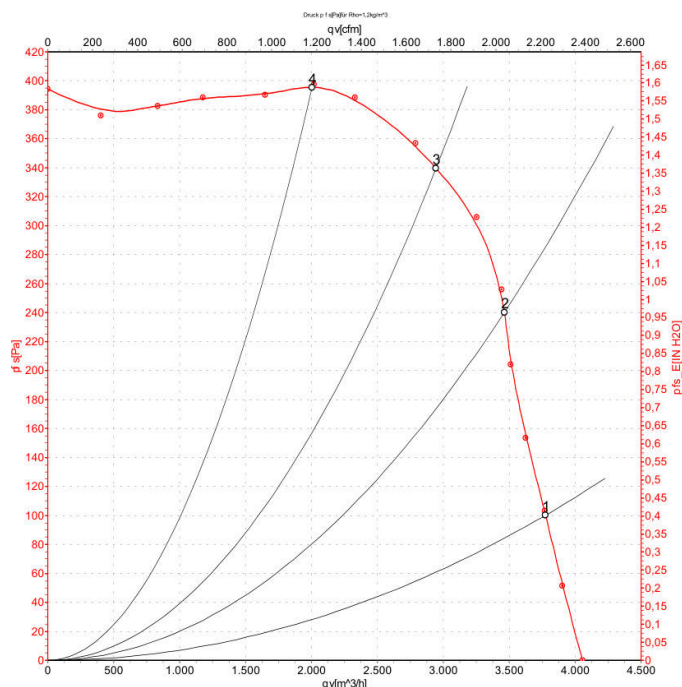
Wielkość	250 mm
Wirnik i obudowa	stal ocynkowana
Stopień ochrony	IP20
Klasa izolacji	F
Masa	16,3 kg

Dane ErP (UE 327/2011)

Sprawność całkowita	43,5 %
Przepływ w pkt. optymalnym	2440 m³/h
Przyrost ciśnienia	444 Pa
Regulacja obrotów	nie

Charakterystyka przepływowa (50 Hz)

Charts: Air flow 50 Hz



Air performance measured as per ISO 580 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 1 m 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.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości dla 50 Hz / 60 Hz; producent zastrzega możliwość zmian.

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D4E250-CA01-01

AC centrifugal fan

forward curved, dual inlet
with housing (large flange)


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Nominal data

Type	D4E250-CA01-01		
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	min ⁻¹	1200	1400
Power input	W	1250	1285
Current draw	A	6	5.9
Motor capacitor	µF	14	14
Capacitor voltage	VDB	500	500
Min. back pressure	Pa	100	350
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	40

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	%	43.5	34.6	41.6
Efficiency grade N		50.9	42	49
Power input P_e	kW	0.68		
Air flow q_v	m ³ /h	2440		
Pressure increase p_f	Pa	444		
Speed n	min ⁻¹	1395		

Data definition with optimum efficiency. LU-120630
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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AC centrifugal fan

forward curved, dual inlet
with housing (large flange)

Technical features

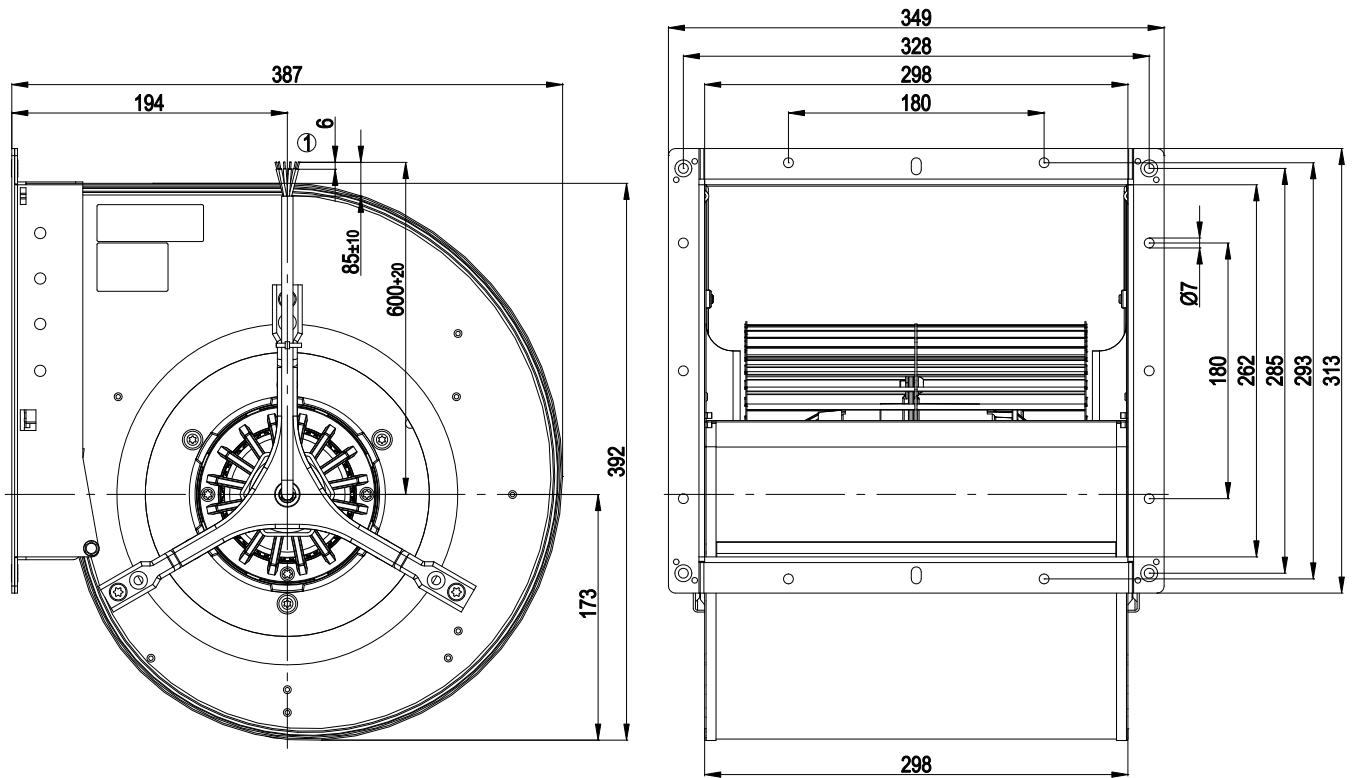
Mass	16.3 kg
Size	250 mm
Surface of rotor	Cast in aluminium
Material of impeller	Sendzimir galvanized sheet steel
Housing material	Sendzimir galvanized sheet steel
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
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	CE
Approval	CCC; EAC

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AC centrifugal fan

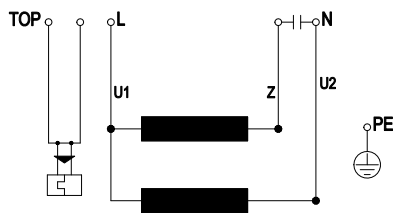
forward curved, dual inlet
with housing (large flange)

Product drawing



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

Connection screen



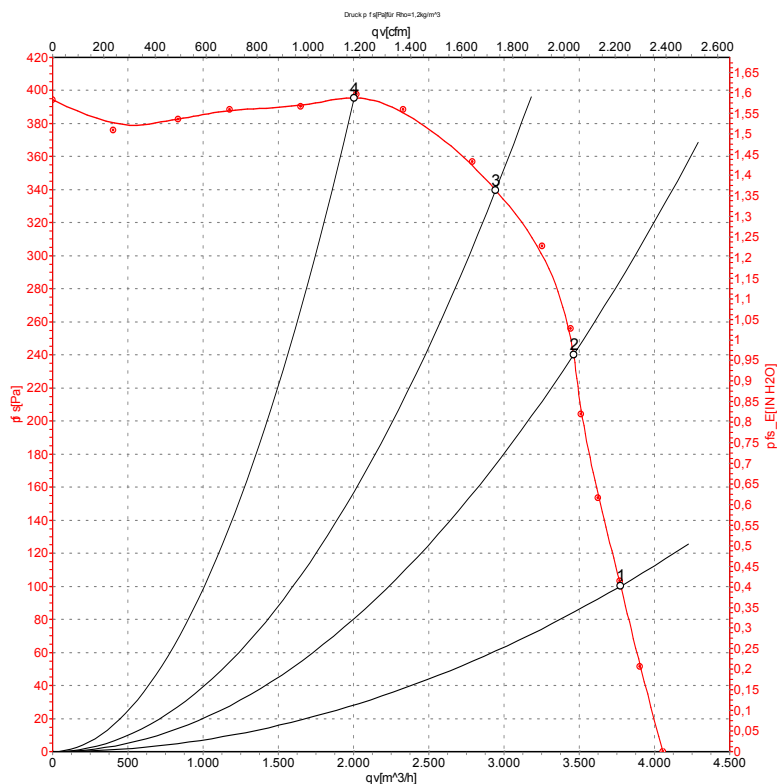
TOP	2 x grey	U1	blue	Z	brown
U2	black	PE	green / yellow		

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AC centrifugal fan

forward curved, dual inlet
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Charts: Air flow 50 Hz



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	1200	1250	6.00	3770	100
2	230	50	1280	1073	5.18	3460	240
3	230	50	1350	843	4.18	2945	340
4	230	50	1420	598	3.26	2005	400

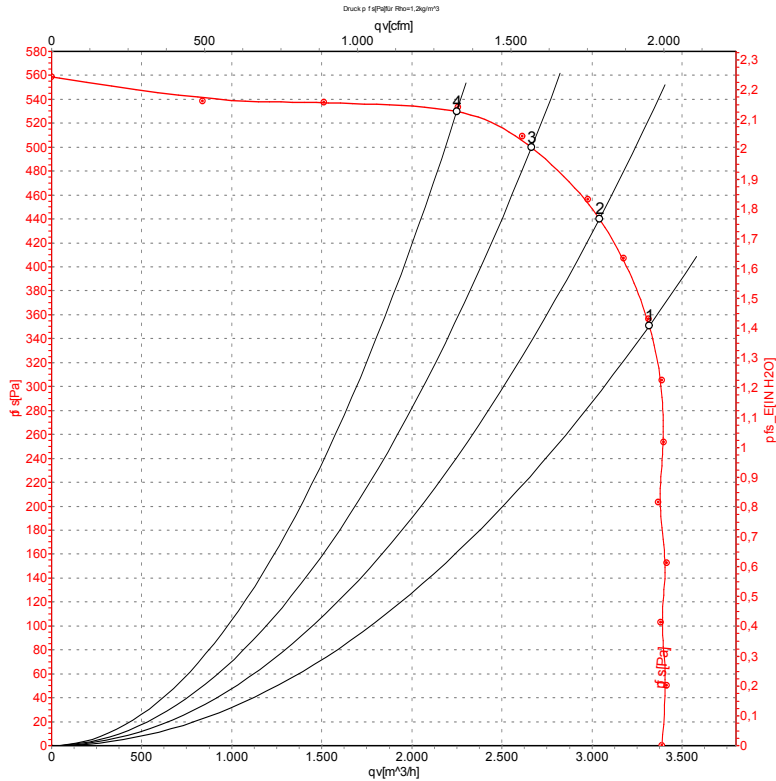
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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AC centrifugal fan

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Charts: Air flow 60 Hz



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	1400	1285	5.90	3310	350
2	230	60	1515	1137	5.07	3040	440
3	230	60	1590	1002	4.40	2665	500
4	230	60	1650	870	3.78	2250	530

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