

KARTA KATALOGOWA

R4E250-BA09-03

Wentylator promieniowy AC, łopatki zakrzywione do przodu, jednostronnie ssący

Producent: ebm-papst



Dane znamionowe

Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	1310 / 1470 obr/min
Pobór mocy	570 / 690 W
Pobór prądu	2,48 / 3,05 A
Kondensator	10 µF / 450 V
Maks. wydajność	2050 m³/h
Maks. ciśnienie statyczne	340 Pa
Temperatura otoczenia	-40...+70 °C (60 Hz: +55 °C)

Dane ErP (UE 327/2011)

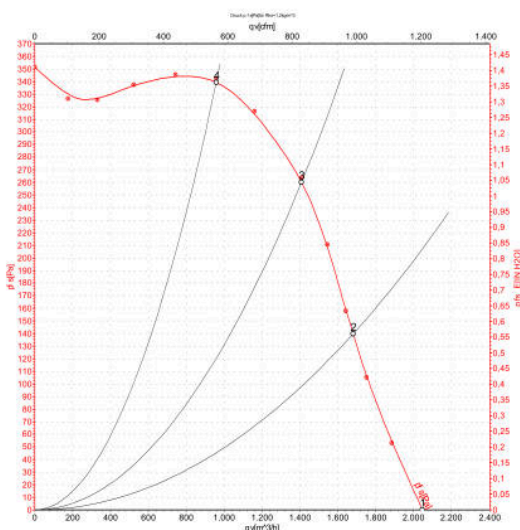
Sprawność całkowita	36,2 %
Przepływ w pkt. optymalnym	1165 m³/h
Przyrost ciśnienia	379 Pa
Regulacja obrotów	nie

Budowa

Średnica wirnika	250 mm
Materiał wirnika	stal ocynkowana
Stopień ochrony	IP54
Klasa izolacji	F
Zabezpieczenie silnika	termik (TOP) wyprowadzony
Masa	8,5 kg

Charakterystyka przepływowa

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 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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R4E250-BA09-03

AC centrifugal fan

forward curved, single inlet



Nominal data

Type	R4E250-BA09-03		
Motor	M4E094-HA		
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	1310	1470
Power input	W	570	690
Current draw	A	2.48	3.05
Motor capacitor	µF	10	10
Capacitor voltage	VDB	450	450
Min. back pressure	Pa	0	100
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	70	55
Starting current	A	6	5.1

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 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η _e	%	36.2	32.6	39.6
Efficiency grade N		45.6	42	49
Power input P _e	kW	0.33		
Air flow q _v	m³/h	1165		
Pressure increase p _f	Pa	379		
Speed n	min ⁻¹	1420		

Data definition with optimum efficiency. LU-56042
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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Technical features

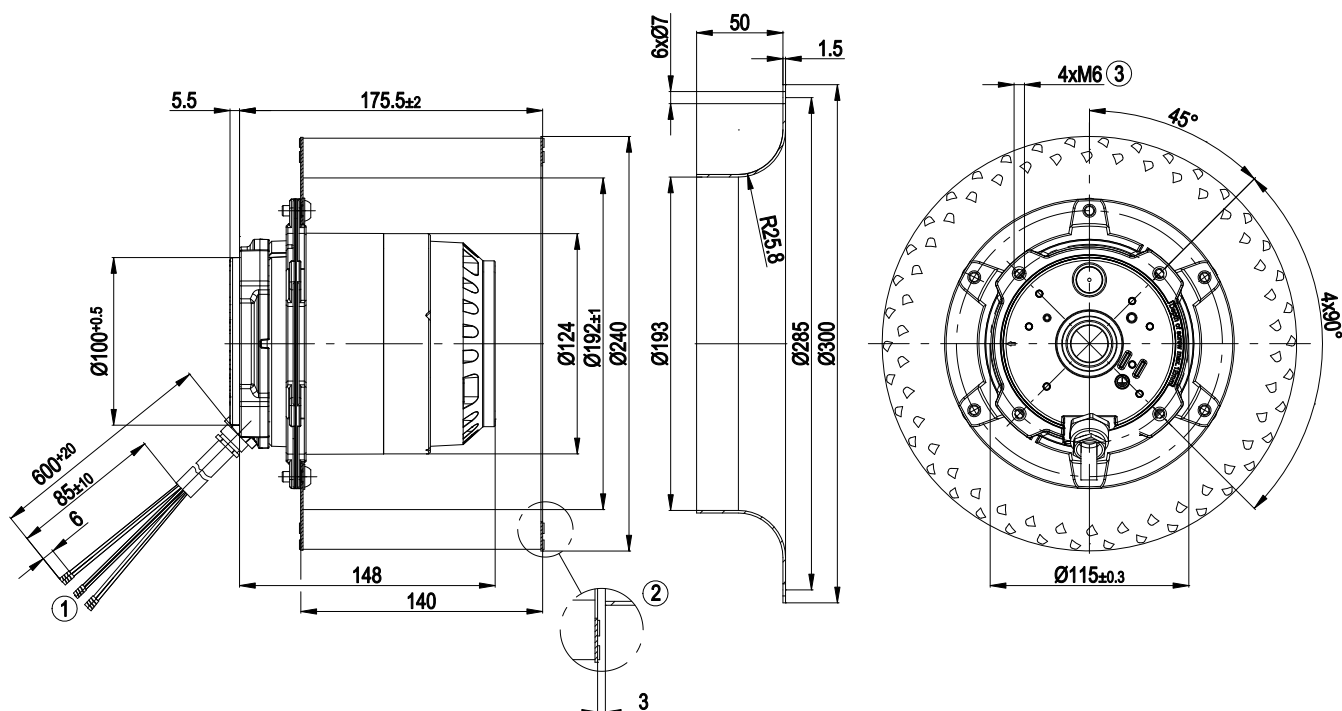
Mass	8.5 kg
Size	250 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, hot-dip galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F4-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
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	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2004)
Approval	CCC; EAC

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Product drawing



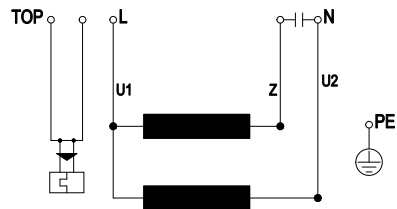
- | | |
|---|---|
| 1 | Connection line silicone, 6 x brass lead tips crimped |
| 2 | Accessory part: Inlet nozzle 25010-2-4013, not included in the standard scope of delivery |
| 3 | Depth of screw max. 12 mm |

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Connection screen



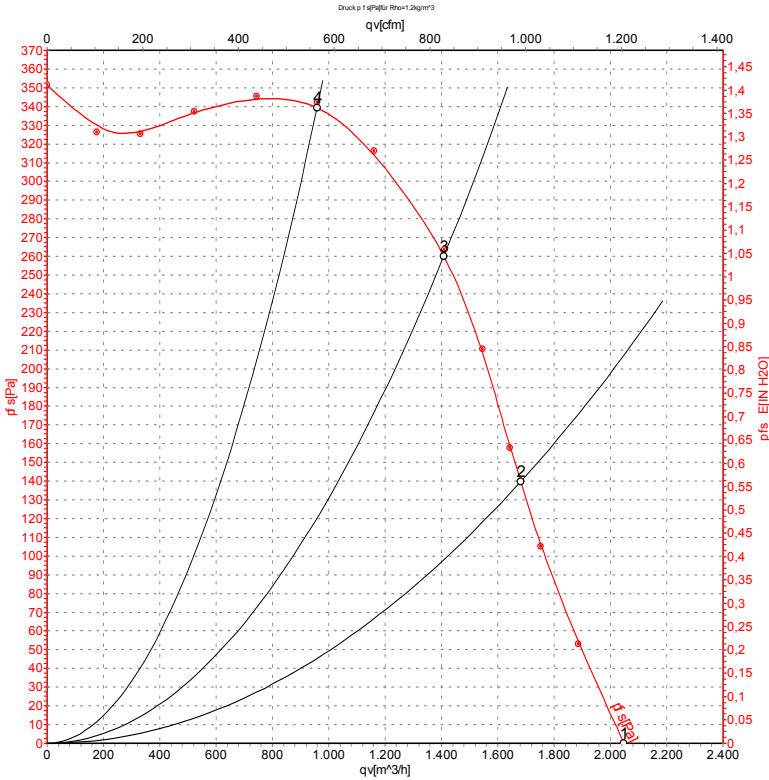
TOP	2 x grey	U1	blue	Z	brown
U2	black	PE	green / yellow		



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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: 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	50	1310	570	2.48	2050	0
2	230	50	1370	454	2.29	1680	140
3	230	50	1405	379	2.00	1410	260
4	230	50	1435	293	1.73	960	340

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

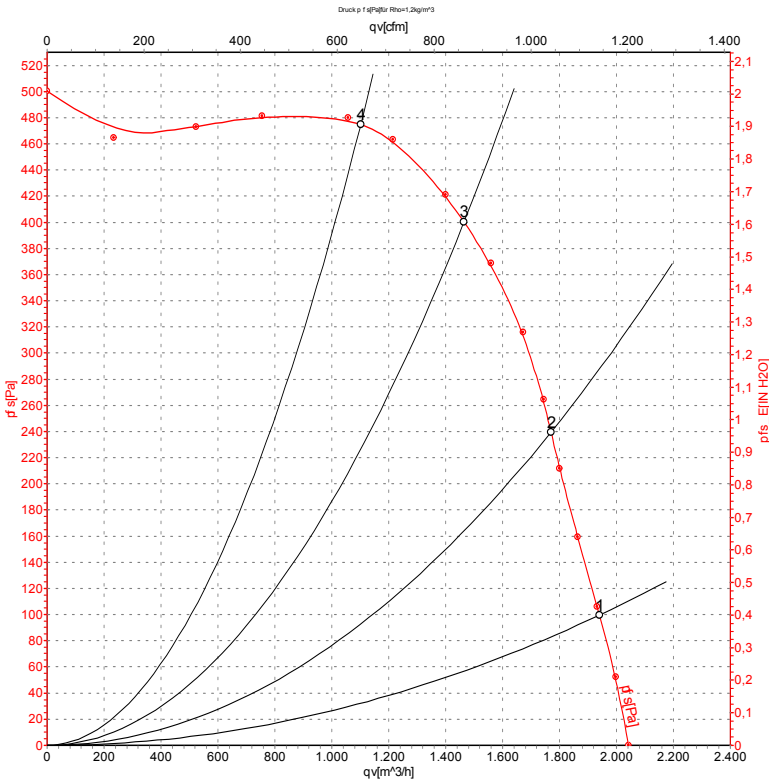


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AC centrifugal fan

forward curved, single inlet

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: 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	60	1470	690	3.05	1940	100
2	230	60	1550	620	2.76	1770	240
3	230	60	1635	505	2.22	1465	400
4	230	60	1690	412	1.79	1100	475

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

