

KARTA KATALOGOWA

R2E250-RE04-09

Wentylator promieniowy AC RadiCal, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Zdjęcie poglądowe

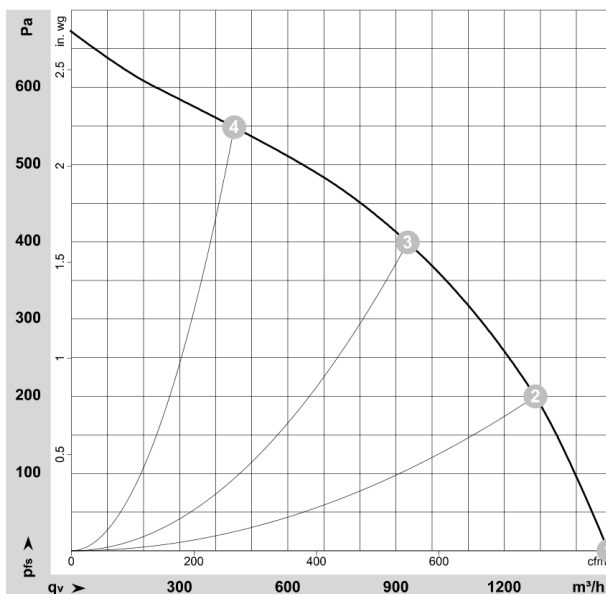
Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	2750 / 3000 obr/min
Pobór mocy	220 / 335 W
Pobór prądu	1 / 1,5 A
Maks. wydajność	1490 m³/h
Maks. ciśnienie statyczne	550 Pa
Temperatura otoczenia	-25...+80 °C (60 Hz: +50 °C)

Dane ErP (UE 327/2011)	
Sprawność całkowita	46,8 %
Przepływ w pkt. optymalnym	905 m³/h
Przyrost ciśnienia	414 Pa
Regulacja obrotów	nie

Budowa	
Średnica wirnika	250 mm
Materiał wirnika	tworzywo PA
Liczba łopatek	7
Stopień ochrony	IP44
Klasa izolacji	F
Masa	2,9 kg

Charakterystyka przepływowa

Curves: Air performance 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-187141-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

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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R2E250-RE04-09

AC centrifugal fan - RadiCal

backward-curved, single-intake

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Nominal data

Type	R2E250-RE04-09		
Motor	M2E074-GA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2750	3000
Power consumption	W	220	335
Current draw	A	1.0	1.5
Capacitor	μF	5.5	5.5
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	in. wg	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	80	50
Starting current	A	2.5	2.3

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to Commission Regulation (EU) 327/2011 (EN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	46.8	44.6	09 Power consumption P_e	kW	0.22
02 Measurement category		A		09 Air flow q_v	m³/h	905
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	414
04 Efficiency grade N		64.2	62	10 Speed (rpm) n	min ⁻¹	2750
05 Variable speed drive		No		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

 * Specific ratio = $1 + p_b / 100\,000\text{ Pa}$

LU-187141

The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings).
The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again.
The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).


ebmpapst

R2E250-RE04-09

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backward-curved, single-intake

Technical description

Weight	2.9 kg
Size	250 mm
Motor size	74
Rotor surface	Painted black
Impeller material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Temperature limiter manual reset
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE; UKCA

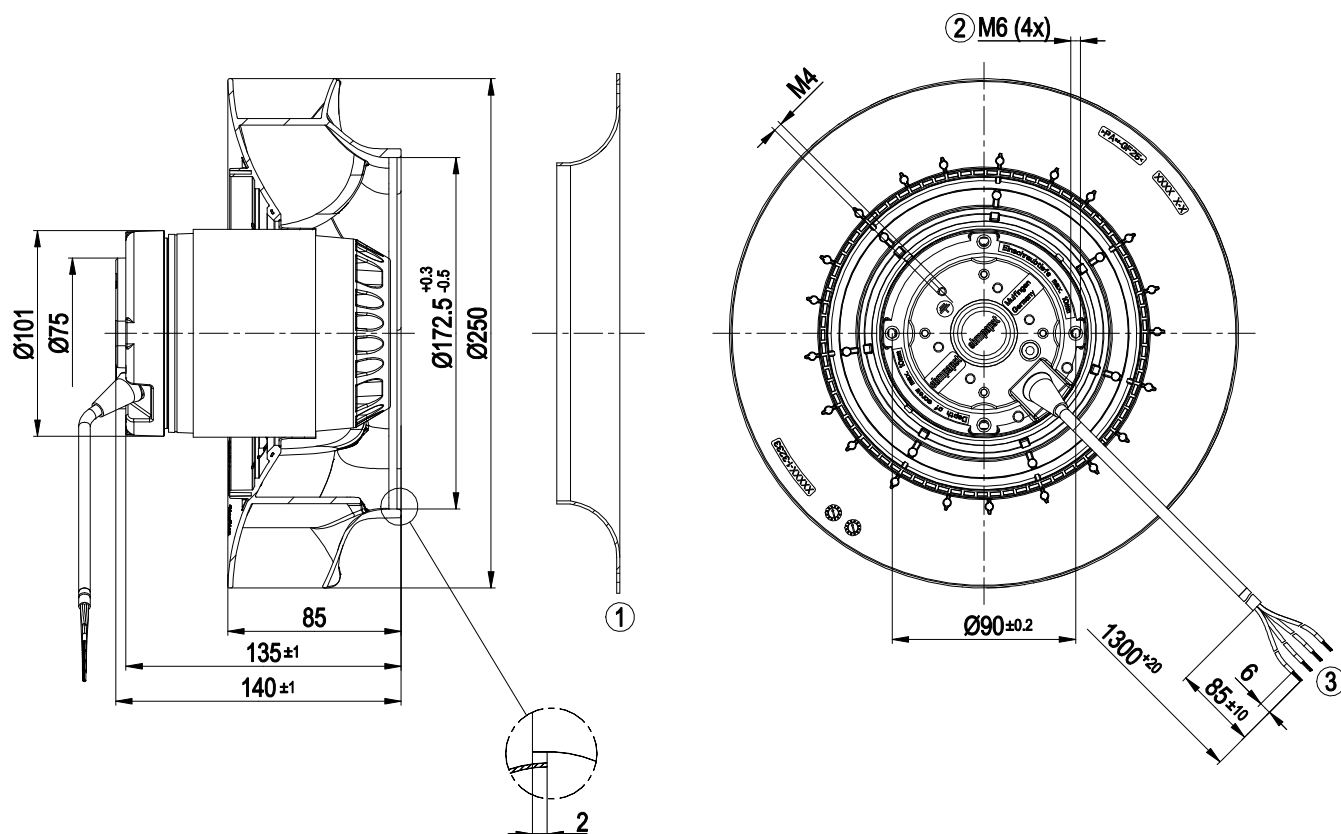


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Product drawing

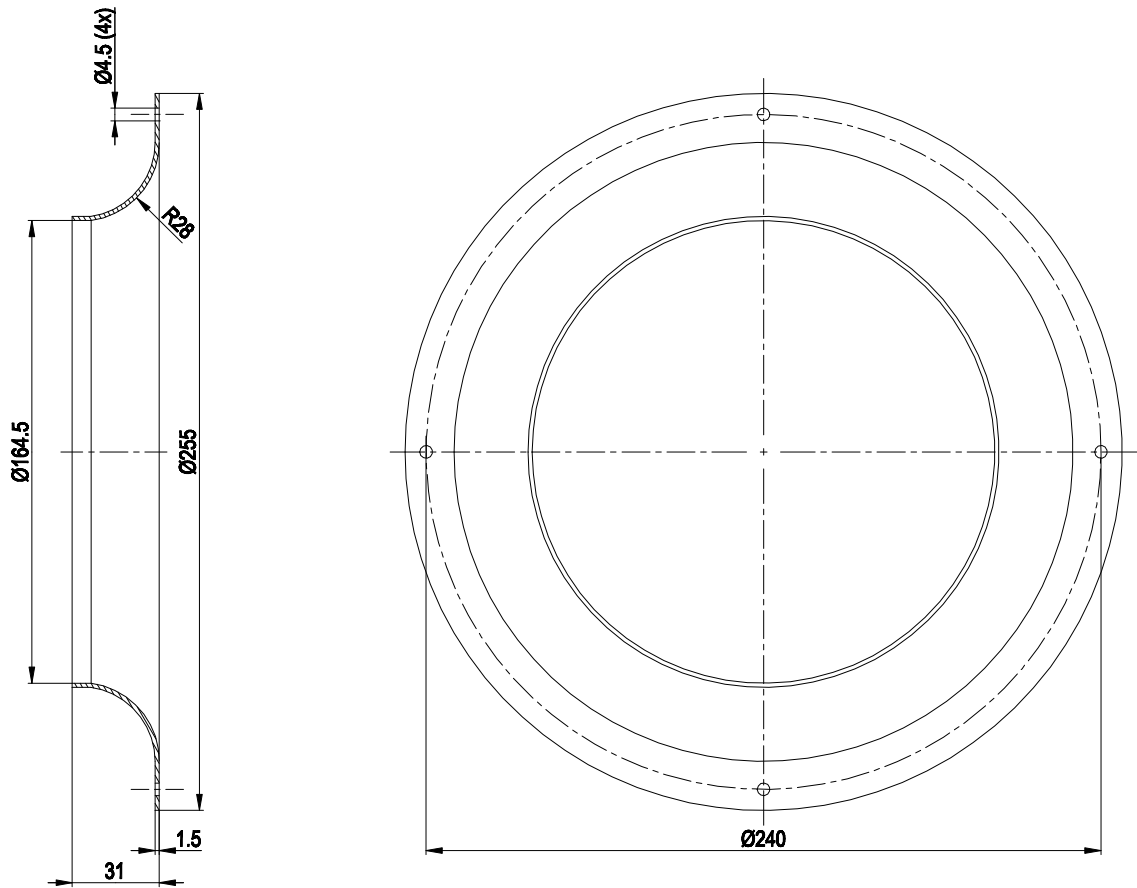


1	Accessory part: Inlet ring 96359-2-4013, not included in scope of delivery
2	Max. clearance for screw 10 mm
3	Cable silicone 4G 0.5 mm ²
	4x splice

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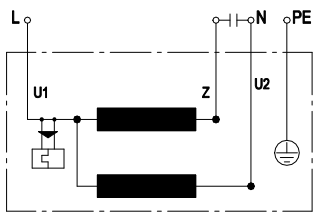
AC centrifugal fan - RadiCal
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Accessory part



Accessory part: inlet ring 96359-2-4013 not included in scope of delivery

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

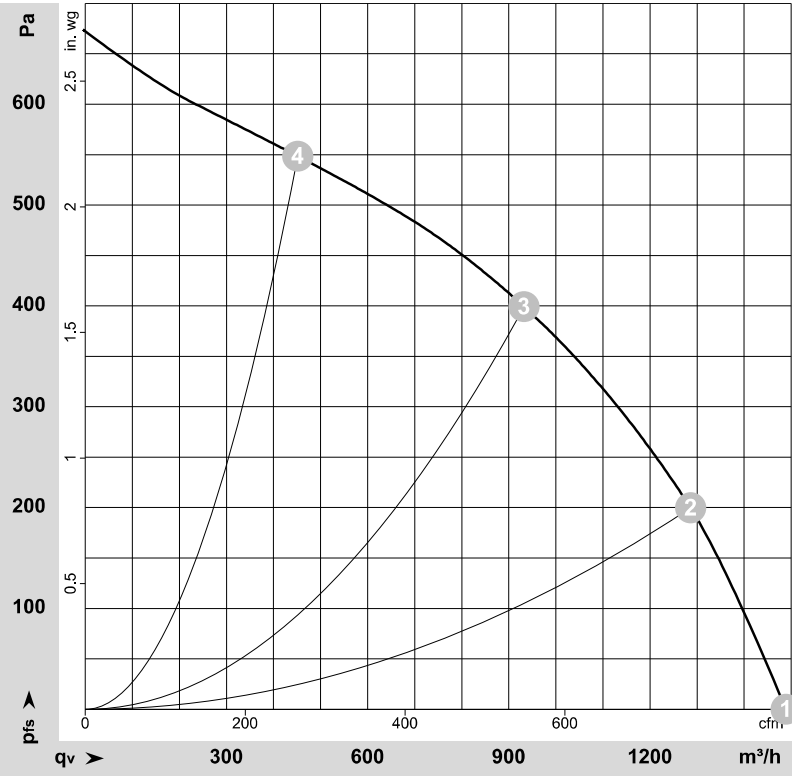


R2E250-RE04-09

AC centrifugal fan - RadiCal

backward-curved, single-intake

Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-187141-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1~	230	50	2825	176	0.76	1490	0	875	0.00
2	1~	230	50	2795	195	0.85	1285	200	755	0.80
3	1~	230	50	2750	220	1.00	930	400	550	1.61
4	1~	230	50	2795	193	0.84	450	550	265	2.21

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

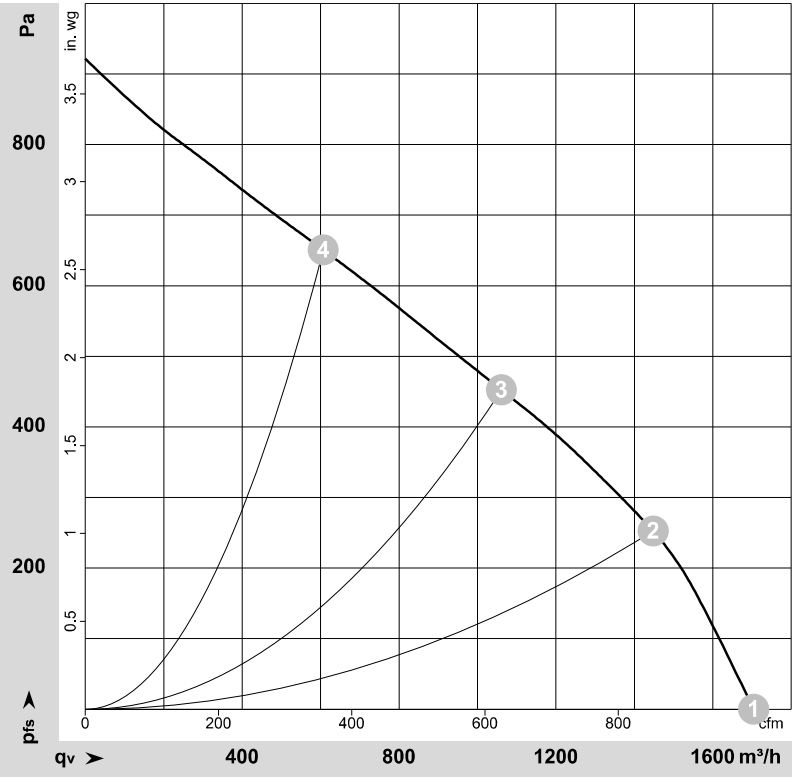


R2E250-RE04-09

AC centrifugal fan - RadiCal

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Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-187154-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1~	230	60	3215	268	1.18	1705	0	1005	0.00
2	1~	230	60	3115	304	1.32	1450	250	850	1.00
3	1~	230	60	3000	335	1.50	1060	450	625	1.81
4	1~	230	60	3090	310	1.35	605	650	355	2.61

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

