

KARTA KATALOGOWA

R2E250-RA43-01

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

Producent: ebm-papst

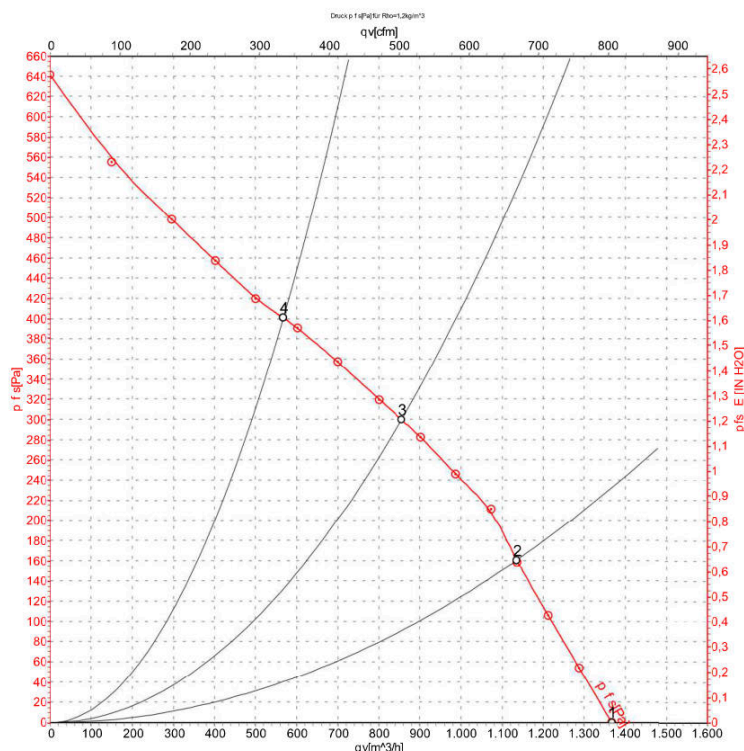


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Średnica wirnika	250 mm
Częstotliwość	50/60 Hz	Materiał wirnika	kompozyt (tworzywo wzmocnione)
Prędkość obrotowa	2500 / 2600 obr/min	Liczba łopatek	7
Pobór mocy	160 / 220 W	Stopień ochrony	IP44
Pobór prądu	0,7 / 0,96 A	Klasa izolacji	F
Maks. wydajność	1365 m³/h	Zabezpieczenie silnika	termik (TOP)
Maks. ciśnienie statyczne	400 Pa	Masa	2,8 kg
Temperatura otoczenia	-25...+80 °C (60 Hz: +55 °C)		

Charakterystyka przepływowa

Curves: Air performance 50 Hz



Measurement: LU-130002-1

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-RA43-01

AC centrifugal fan - RadiCal

backward-curved, single-intake

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R2E250-RA43-01		
Motor	M2E068-EC		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	2500	2600
Power consumption	W	160	220
Current draw	A	0.7	0.96
Capacitor	µF	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	55
Starting current	A	1.19	1.16

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



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Technical description

Weight	2.8 kg
Size	250 mm
Motor size	68
Rotor surface	Painted black
Impeller material	PA6 plastic, glass-fiber reinforced
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	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1

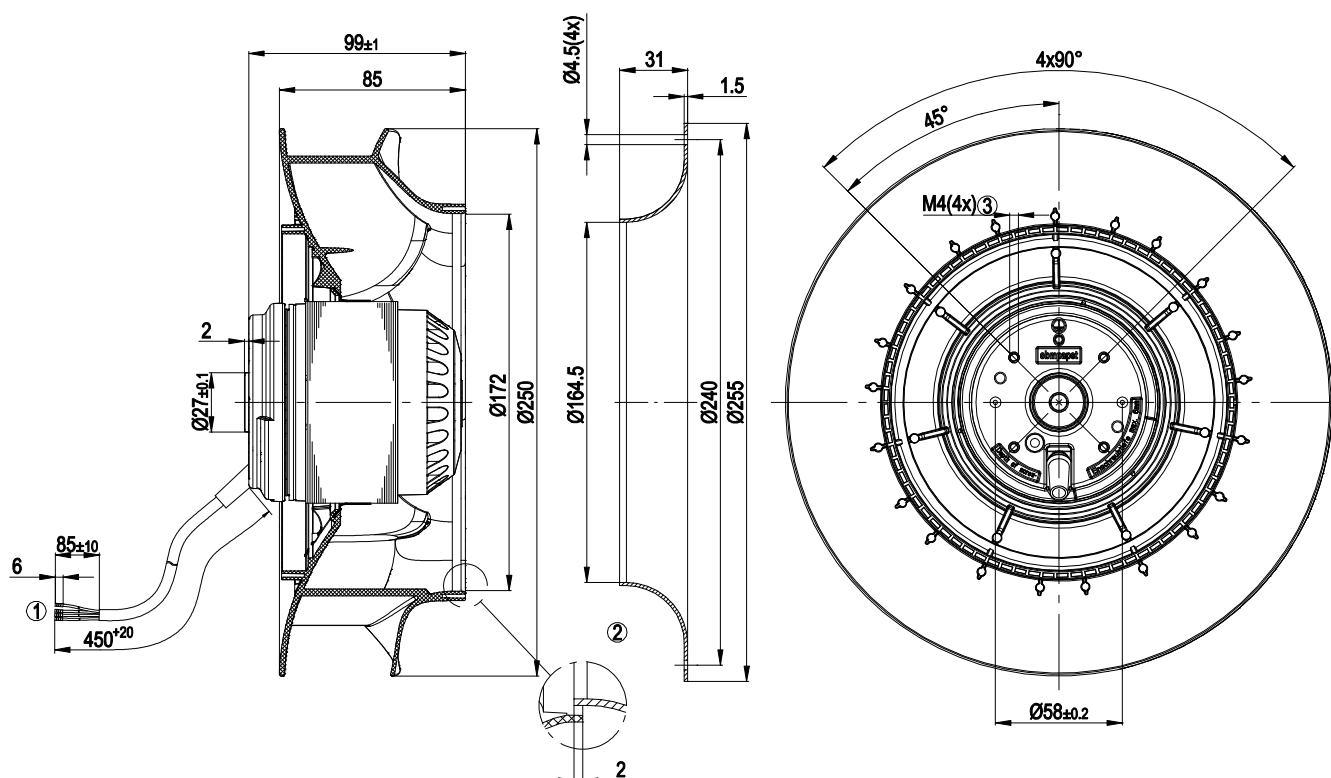


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AC centrifugal fan - RadiCal

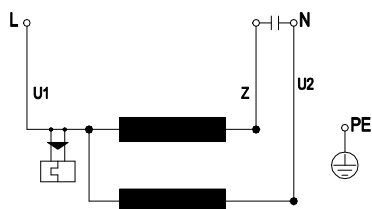
backward-curved, single-intake

Product drawing



- | | |
|---|--|
| 1 | Cable silicone 4G 0.5 mm ² , 4x crimped splices |
| 2 | Accessory part: inlet ring 96359-2-4013, not included in scope of delivery |
| 3 | Max. clearance for screw 6 mm |

Connection diagram



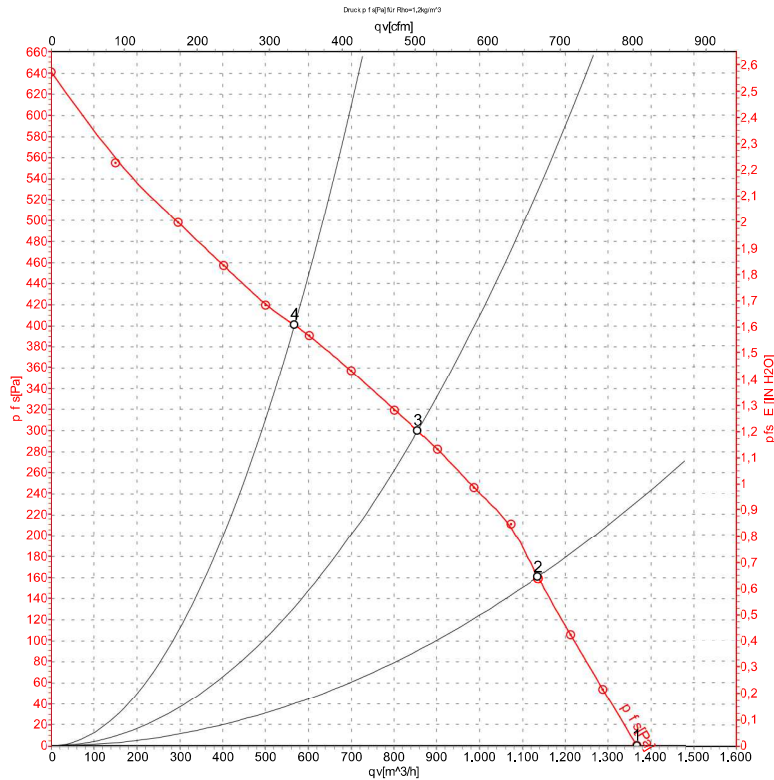
U1	blue	Z	brown	U2	black
PE	green/yellow				

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AC centrifugal fan - RadiCal

backward-curved, single-intake

Curves: Air performance 50 Hz



Measurement: LU-130002-1

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

	U	f	n	P _e	I	L _{pA} _{in}	L _{wA} _{in}	q _v	p _{ts}	q _v	p _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	230	50	2500	160	0.70	66	74	1365	0	805	0.00
2	230	50	2395	174	0.76	60	69	1135	160	670	0.64
3	230	50	2350	180	0.79	57	65	855	300	505	1.20
4	230	50	2390	174	0.76	61	70	565	400	335	1.61

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · L_{pA}_{in} = Sound pressure level intake side · L_{wA}_{in} = Sound power level intake side
q_v = Air flow · p_{ts} = Pressure increase



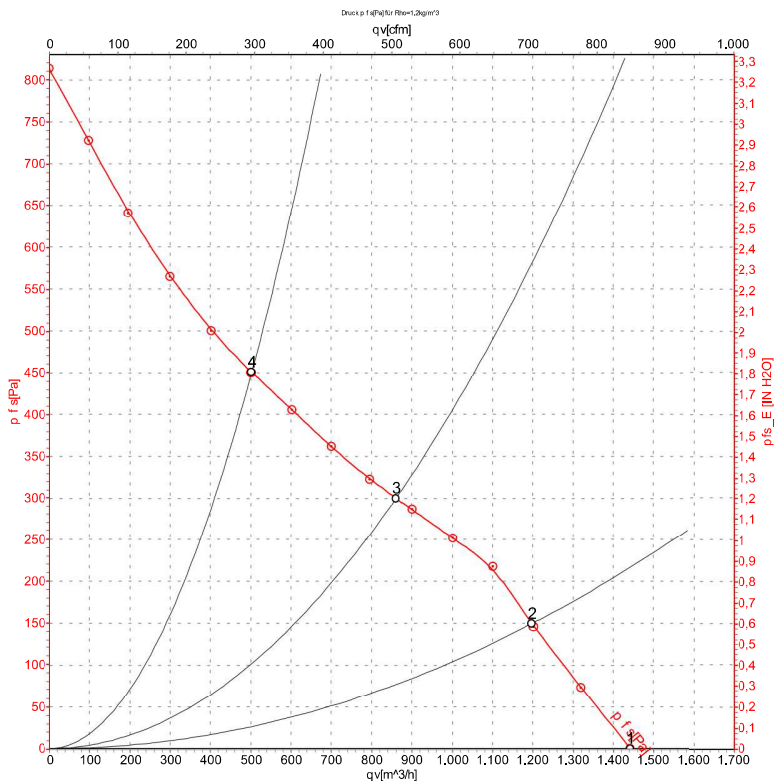
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R2E250-RA43-01

AC centrifugal fan - RadiCal

backward-curved, single-intake

Curves: Air performance 60 Hz



Measurement: LU-130003-1

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

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	230	60	2600	220	0.96	67	76	1445	0	850	0.00
2	230	60	2460	230	1.00	61	70	1200	150	705	0.60
3	230	60	2350	235	1.03	57	65	860	300	505	1.20
4	230	60	2480	226	0.99	63	72	500	450	295	1.81

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase

