

KARTA KATALOGOWA

K2E250-RA50-01

Moduł wentylatora promieniowego AC RadiCal, łopatki zakrzywione do tyłu, jednostronnie ssący, z obudową

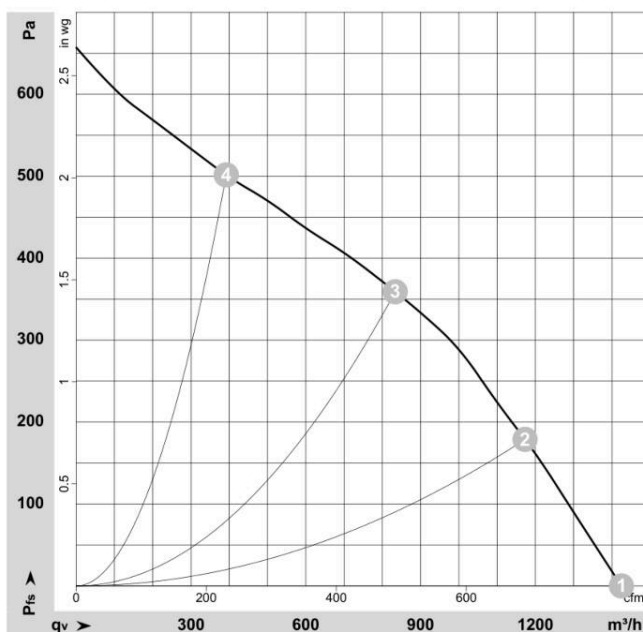
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	250 mm
Częstotliwość	50 / 60 Hz	Silnik	M2E068-EC
Prędkość obrotowa	2500 / 2450 obr/min	Materiał wirnika	tworzywo PA
Pobór mocy	210 / 285 W	Obudowa	tworzywo PA
Pobór prądu	0,93 / 1,25 A	Liczba łopatek	7
Prąd rozruchowy	1,5 / 1,4 A	Kierunek obrotów	w prawo, patrząc na wirnik
Kondensator	5 µF / 400 V	Stopień ochrony	IP44
Maks. wydajność	1400 m³/h	Klasa izolacji	F
Maks. ciśnienie statyczne	655 Pa	Zabezpieczenie silnika	termik (TOP), podłączony wewnętrznie
Temperatura otoczenia	min. -25 °C; maks. 70 / 30 °C	Łożyskowanie	kulkowe
		Podłączenie	wtyczka
		Masa	3,65 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



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

Measurement: LU-135153-1

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 okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

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K2E250-RA50-01

AC centrifugal module - RadiCal

backward-curved, single-intake
with housing



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Nominal data

Type	K2E250-RA50-01		
Motor	M2E068-EC		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	2500	2450
Power consumption	W	210	285
Current draw	A	0.93	1.25
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	70	30
Starting current	A	1.5	1.4

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



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Technical description

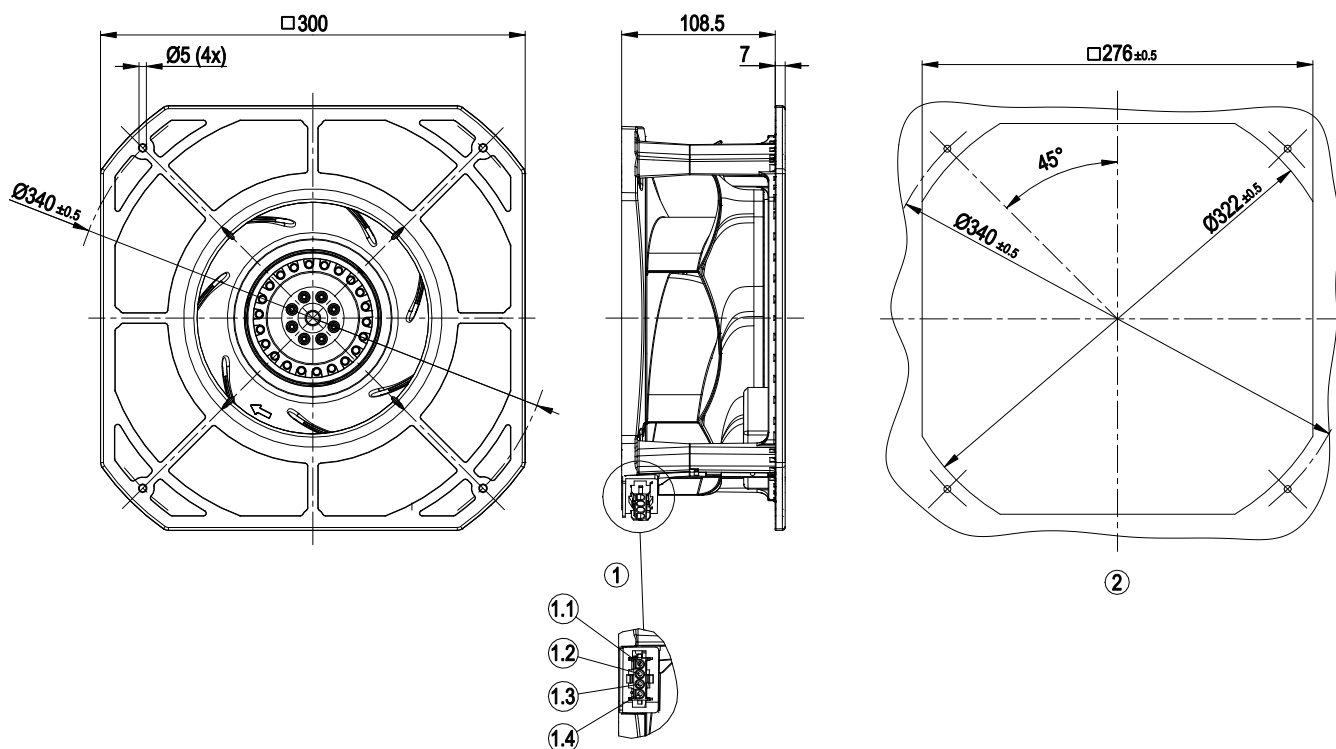
Weight	3.65 kg
Fan size	250 mm
Rotor surface	Painted black
Impeller material	PA plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"F"
Moisture (F) / Environmental (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	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	With plug
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1
Approval	EAC; CCC

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Product drawing



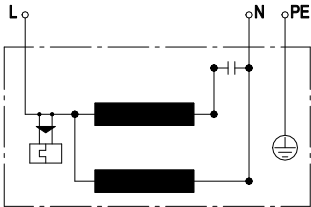
1	tyco coded plug system
	4-pole connector housing tyco 926305-7
	2x plug pin tyco 926885-1, 2x plug pin tyco 350218-1
	Mating connector (not included in scope of delivery):
	4-pole connector housing tyco 926298-6
	4x socket tyco 926 884-1
1.1	PE
1.2	L
1.3	N + capacitor
1.4	Capacitor
	(capacitor connected internally)
2	Mounting dimensions

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Connection diagram



L	blue	N	black	PE	green/yellow
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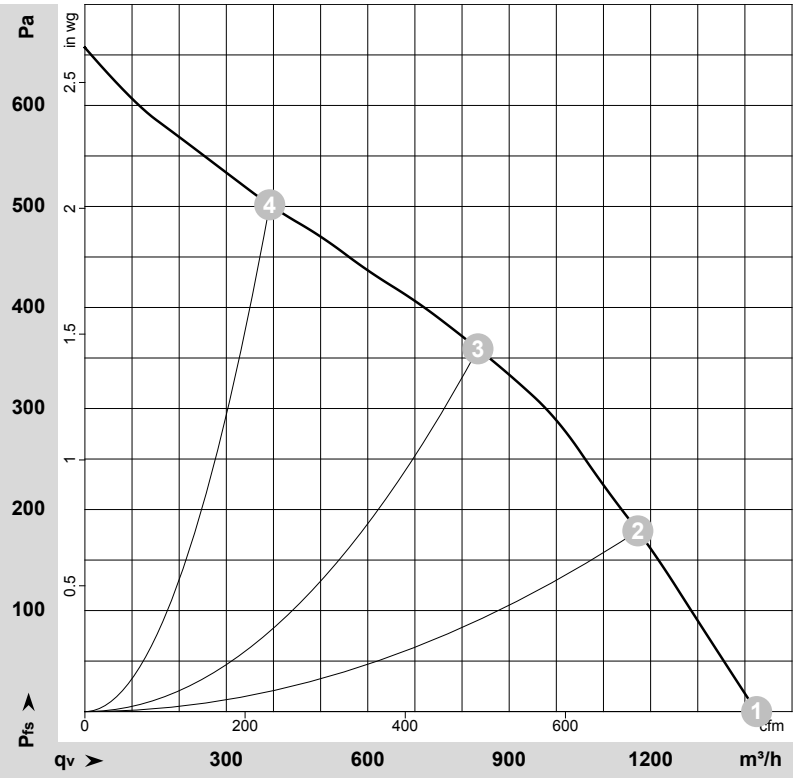
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AC centrifugal module - RadiCal

backward-curved, single-intake

with housing

Curves: Air performance 50 Hz



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

Measurement: LU-135153-1

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 _{ts}	q _v	P _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	230	50	2630	179	0.78	67	75	1425	0	840	0.00
2	230	50	2535	206	0.90	62	70	1175	180	690	0.72
3	230	50	2500	210	0.93	59	67	835	360	490	1.45
4	230	50	2615	183	0.80	65	74	390	500	230	2.01

U = Power supply · 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_{ts} = Pressure increase



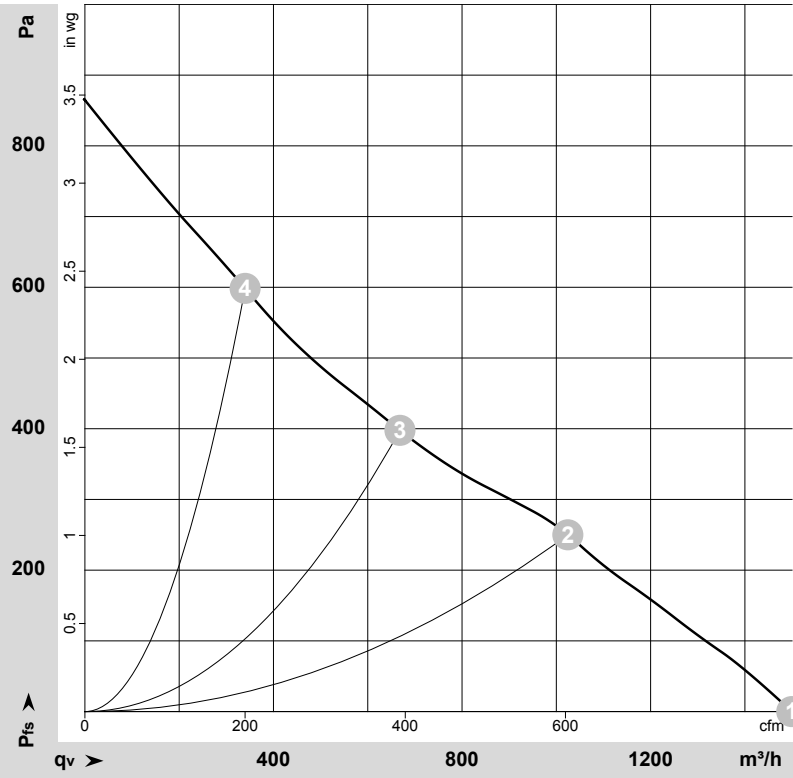
K2E250-RA50-01

AC centrifugal module - RadiCal

backward-curved, single-intake

with housing

Curves: Air performance 60 Hz



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

Measurement: LU-135157-1

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 _{ts}	q _v	P _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	230	60	2775	246	1.07	68	77	1500	0	880	0.00
2	230	60	2450	285	1.25	61	69	1025	250	605	1.00
3	230	60	2485	270	1.18	61	69	670	400	395	1.61
4	230	60	2830	240	1.04	68	76	340	600	200	2.41

U = Power supply · 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_{ts} = Pressure increase

