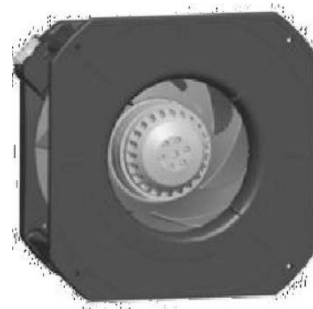


KARTA KATALOGOWA

K2E225-RA92-09

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

Producent: ebm-papst



Zdjęcie poglądowe

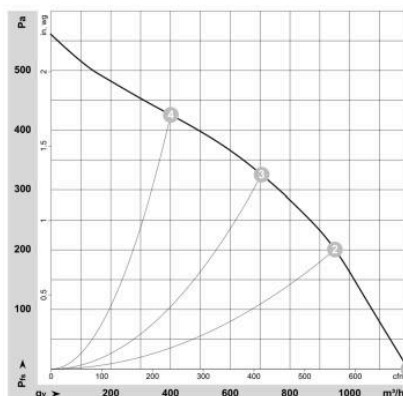
Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50 / 60 / 60 Hz
Prędkość obrotowa	2500 / 2600 / 2600 obr/min
Pobór mocy	155 / 210 / 225 W
Pobór prądu	0,68 / 0,92 / 0,95 A
Prąd rozruchowy	1,25 / 1,2 A
Kondensator	3,5 µF / 450 V
Maks. wydajność	1150 m³/h
Maks. ciśnienie statyczne	560 Pa
Temperatura otoczenia	min. -25 °C; maks. 70 / 65 / 65 °C

Budowa	
Wielkość	225 mm
Silnik	M2E068-DF
Materiał wirnika	tworzywo PA
Obudowa	tworzywo PA
Kratka ochronna	tworzywo PA
Liczba łopatek	7
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP44
Klasa izolacji	F
Zabezpieczenie silnika	termik (TOP), podłączony wewnętrznie
Łożyskowanie	kulkowe
Podłączenie	wtyczka
Masa	3,3 kg

Dane ErP (UE 327/2011)	
Sprawność całkowita	42,5 %
Przepływ w pkt. optymalnym	705 m³/h
Przyrost ciśnienia	320 Pa
Regulacja prędkości (ErP)	nie

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



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

Measurement: LU-154075-1

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 unit. 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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K2E225-RA92-09

AC centrifugal module - RadiCal

backward-curved, single-intake
with housing

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Nominal data

Type	K2E225-RA92-09			
Motor	M2E068-DF			
Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Method of obtaining data		ml	ml	ml
Valid for approval/standard		CE	CE	UL 2111
Speed (rpm)	min ⁻¹	2500	2600	2600
Power consumption	W	155	210	225
Current draw	A	0.68	0.92	0.95
Capacitor	µF	3.5	3.5	3.5
Capacitor voltage	VDB	450	450	450
Capacitor standard		S0 (CE)	S0 (CE)	UL
Min. back pressure	Pa	0	0	0
Min. back pressure	in. wg	0	0	0
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	70	65	65
Starting current	A	1.25	1.2	

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

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	42.5	42.5	09 Power consumption P_e	kW	0.14
02 Measurement category		A		09 Air flow q_v	m³/h	705
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	320
04 Efficiency grade N		62	62	10 Speed (rpm) n	min ⁻¹	2560
05 Variable speed drive		No		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$ LU-127147



K2E225-RA92-09

AC centrifugal module - RadiCal

backward-curved, single-intake
with housing

Technical description

Weight	3.3 kg
Fan size	225 mm
Rotor surface	Painted black
Impeller material	PA plastic
Housing material	PA plastic
Guard grille 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
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; CE
Approval	CSA C22.2 No. 77; UL 1004-3

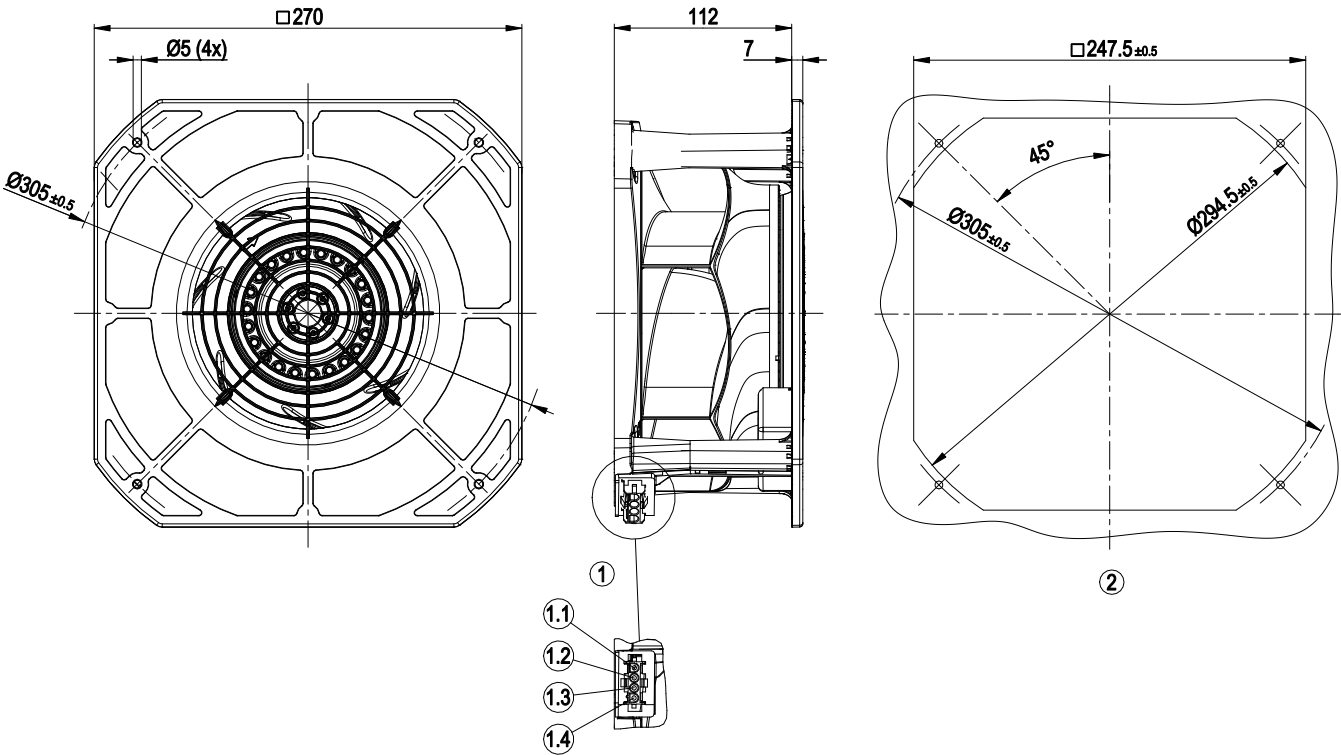
K2E225-RA92-09

AC centrifugal module - RadiCal

backward-curved, single-intake

with housing

Product drawing



1	tyco coded plug system
	4-pole connector housing tyco 926305-7
	4x plug pin tyco 926 885-1
	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 wired internally)
2	Mounting dimensions



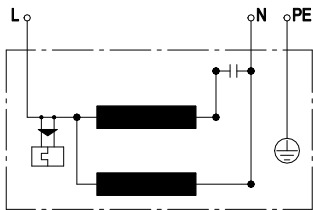
K2E225-RA92-09

AC centrifugal module - RadiCal

backward-curved, single-intake

with housing

Connection diagram



L	blue	N	black	PE	green/yellow
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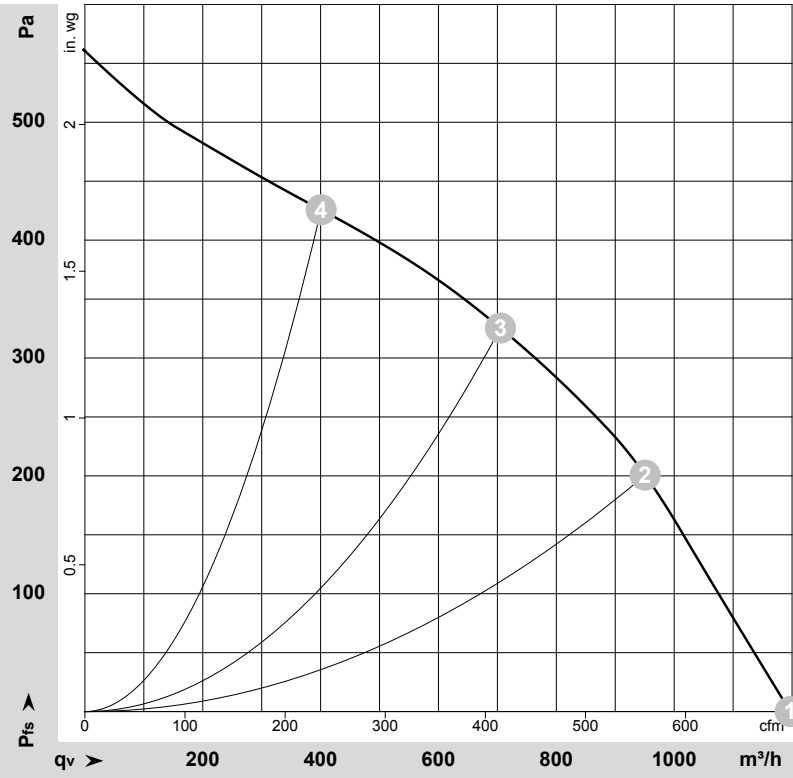
K2E225-RA92-09

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-154575-1

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	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	1~	230	50	2660	132	0.58	66	73	1195	0	705	0.00
2	1~	230	50	2500	155	0.68	63	70	950	200	560	0.80
3	1~	230	50	2555	150	0.66	58	66	705	325	415	1.30
4	1~	230	50	2625	138	0.60	63	70	400	425	235	1.71

Wired = Wiring · 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_{fs} = Pressure increase



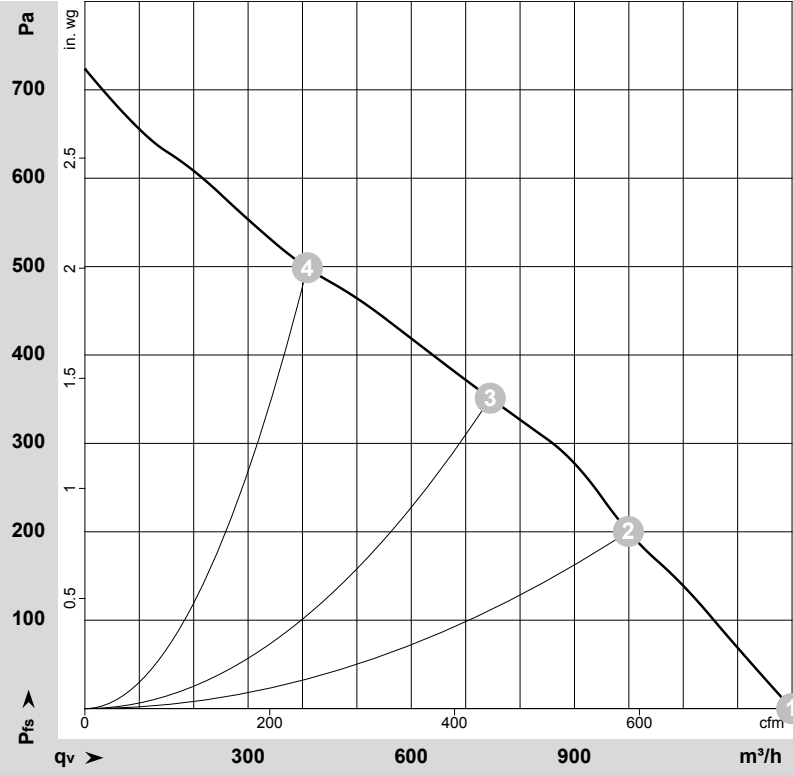
K2E225-RA92-09

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-127148-1

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	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	1~	230	60	2930	187	0.81	69	76	1300	0	765	0.00
2	1~	230	60	2700	210	0.92	64	71	1000	200	590	0.80
3	1~	230	60	2700	207	0.90	60	68	745	350	440	1.41
4	1~	230	60	2860	192	0.83	67	75	410	500	240	2.01

Wired = Wiring · 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_{fs} = Pressure increase

