

KARTA KATALOGOWA

K3G220-RC05-03

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

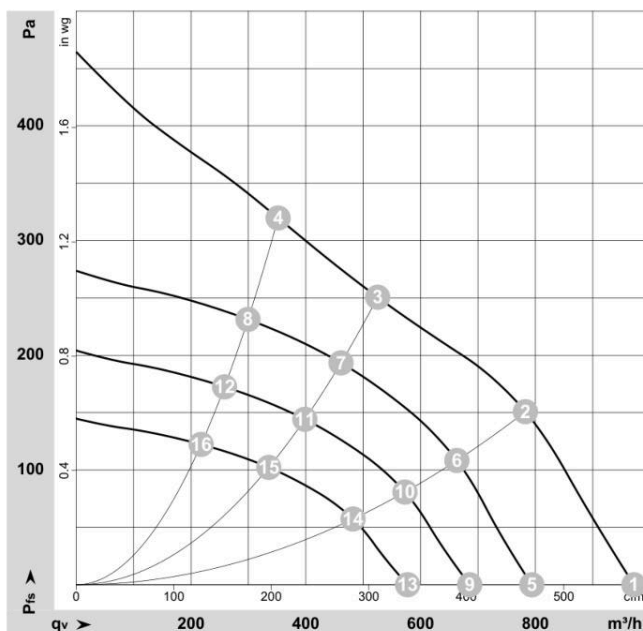
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V (200...240 V)	Wielkość	220 mm
Częstotliwość	50/60 Hz	Silnik	M3G055-BI
Prędkość obrotowa	2580 obr/min	Materiał wirnika	tworzywo PP
Pobór mocy	85 W	Obudowa	tworzywo PA
Pobór prądu	0,7 A	Obudowa elektroniki	odlew aluminiowy
Maks. wydajność	970 m³/h	Liczba łopatek	7
Maks. ciśnienie statyczne	460 Pa	Kierunek obrotów	w prawo, patrząc na wirnik
Temperatura otoczenia	-25...+60 °C	Stopień ochrony	IP54
Regulacja obrotów	0-10 V / PWM	Klasa izolacji	B
		Zabezpieczenie silnika	elektroniczne
		Łożyskowanie	kulkowe
		Masa	1,8 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



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

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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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EC centrifugal module - RadiCal

backward-curved, single-intake
with housing



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Nominal data

Type	K3G220-RC05-03	
Motor	M3G055-BI	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	2580
Power consumption	W	85
Current draw	A	0.7
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	1.8 kg
Size	220 mm
Motor size	55
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
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, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Thermal overload protection for electronics/motor - Line undervoltage detection
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 55022 (class B, household environment), the application may require ferritic damping in the cable due to the conditions of installation.
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Variable
Protection class assignment	I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60335-1; EN 60034-1; EN 60204-1; UKCA; CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	UL 1004-7 + 60730-1; CSA C22.2 No. 77 + CAN/CSA-E60730-1

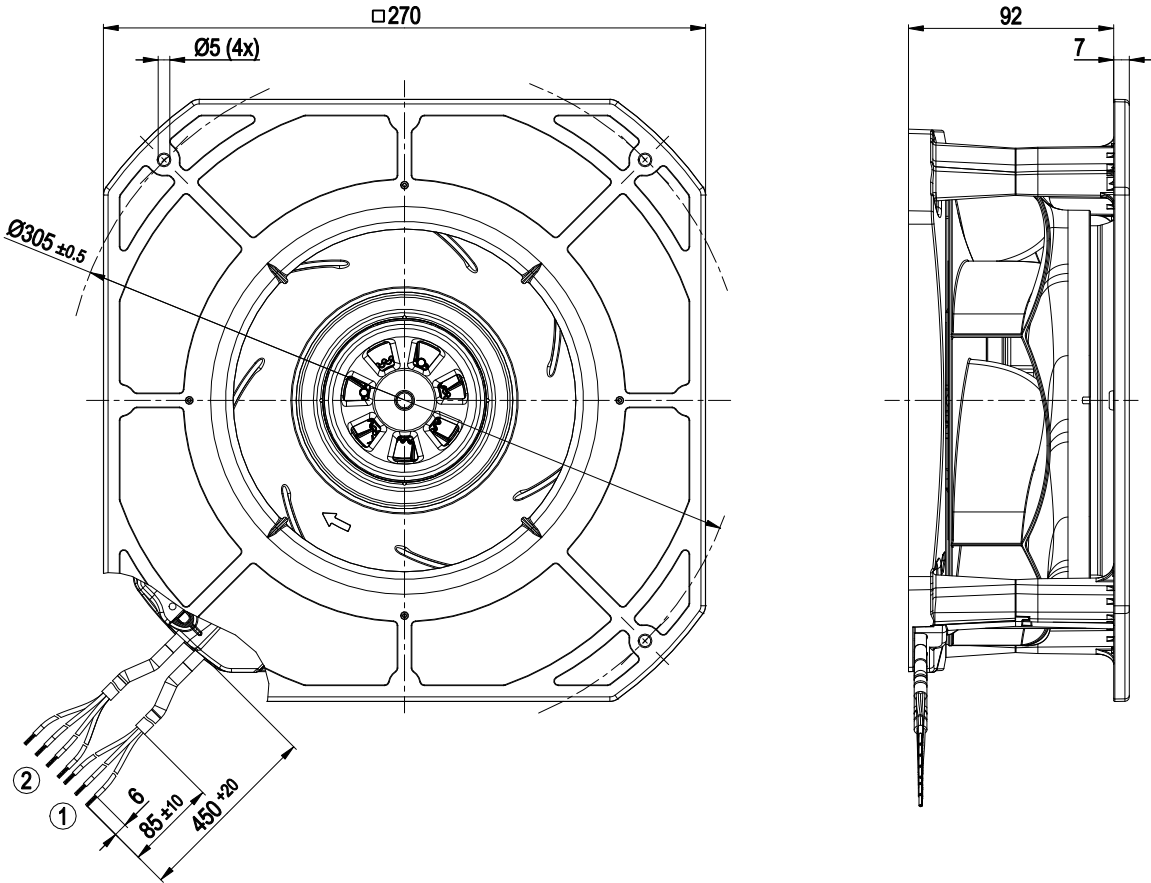
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Product drawing



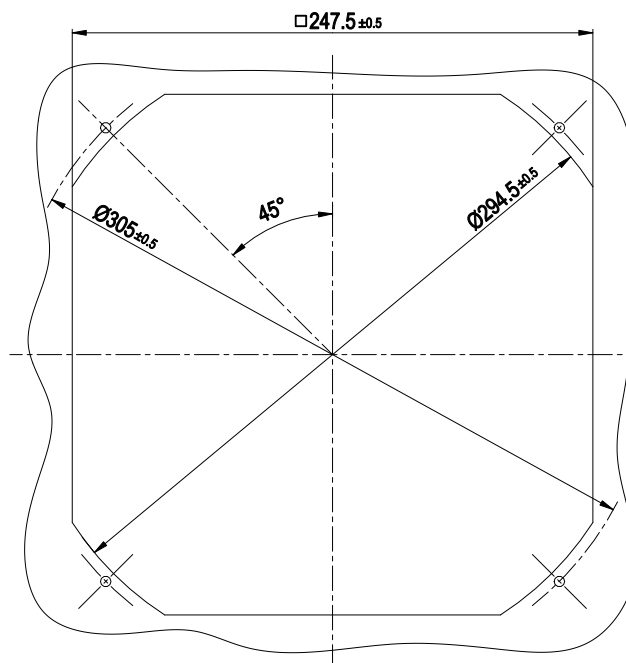
3x splice	2	Cable PVC AWG22	4x splice
1	Cable PVC AWG20		

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Mounting dimensions



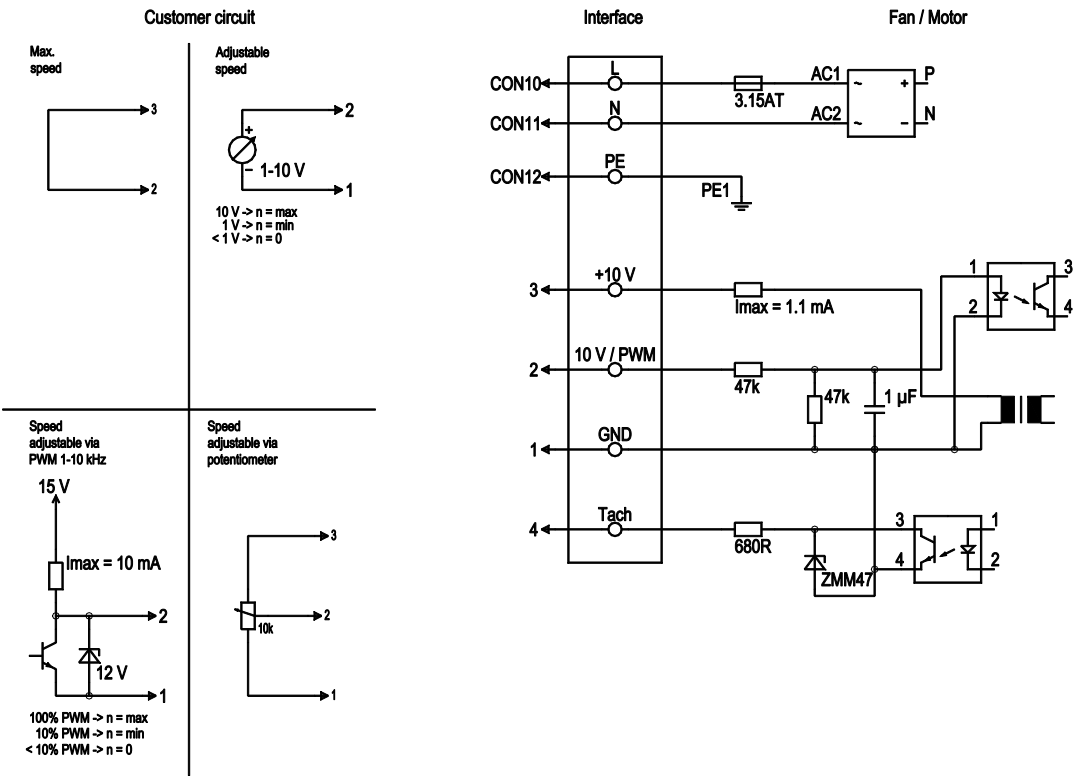
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection for control interface
	2	0-10V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	3	10 V / max. 1,1 mA	red	Voltage output 10 VDC 1.1 mA, electrically isolated, short-circuit-proof
	4	Tacho	white	Tach output: open collector, 1 pulse per revolution, electrically isolated

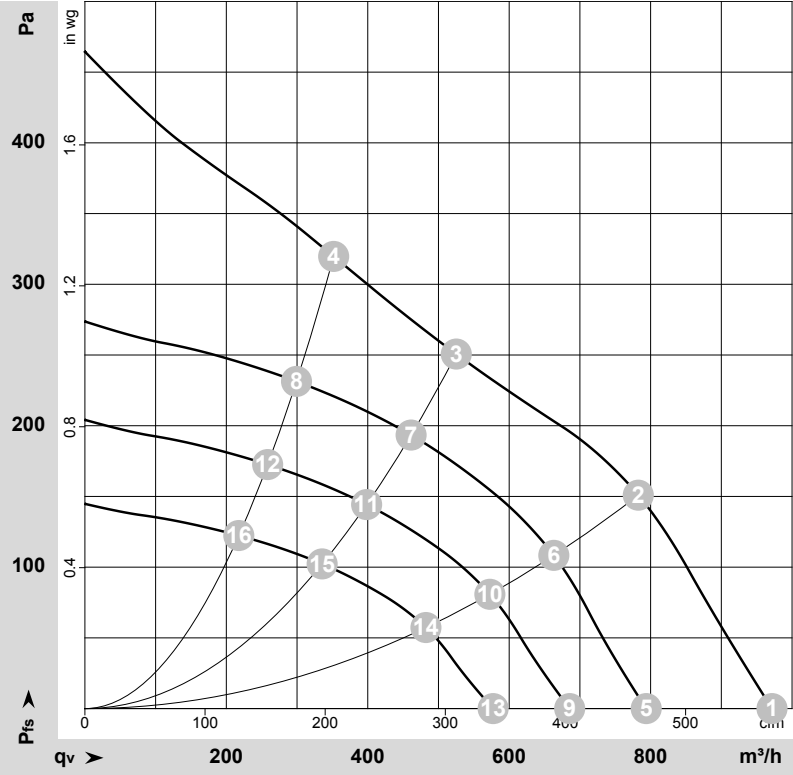
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Measured values

	U	f	n	P _{ed}	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	50	2695	78	0.69	62	70	970	0	570	0.00
2	230	50	2595	85	0.70	59	67	785	150	460	0.60
3	230	50	2580	85	0.70	57	65	525	250	310	1.00
4	230	50	2585	85	0.70	60	67	350	320	205	1.28
5	230	50	2200	42	0.38			795	0	465	0.00
6	230	50	2200	51	0.45			665	109	390	0.44
7	230	50	2200	56	0.50			460	194	270	0.78
8	230	50	2200	51	0.45			300	232	175	0.93
9	230	50	1900	27	0.24			685	0	405	0.00
10	230	50	1900	33	0.29			575	81	335	0.33
11	230	50	1900	36	0.32			400	144	235	0.58
12	230	50	1900	33	0.29			260	173	150	0.69
13	230	50	1600	16	0.15			575	0	340	0.00
14	230	50	1600	20	0.17			480	58	285	0.23
15	230	50	1600	22	0.19			335	102	195	0.41
16	230	50	1600	20	0.17			220	122	130	0.49

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = 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