

KARTA KATALOGOWA

K3G190-RC05-19

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

Producent: ebm-papst



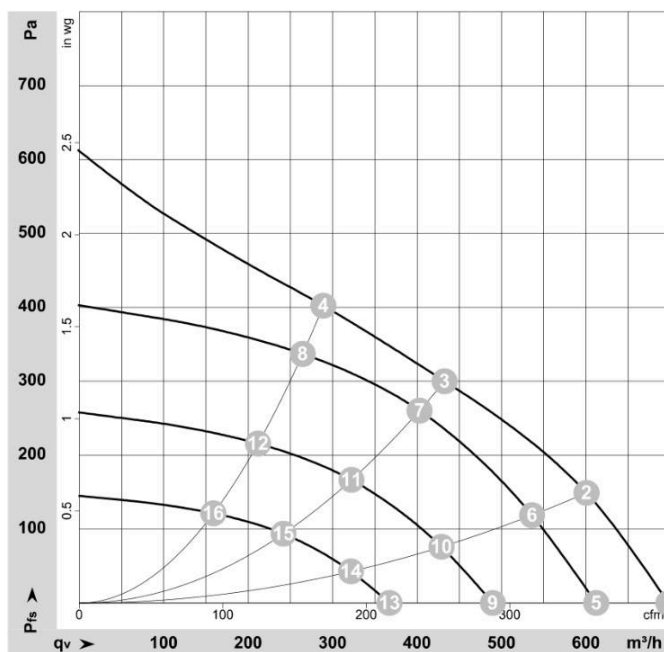
Zdjęcie poglądowe

Dane znamionowe	
Napięcie znamionowe	1~ 230 V (200...240 V)
Częstotliwość	50/60 Hz
Prędkość obrotowa	3200 obr/min
Pobór mocy	83 W
Pobór prądu	0,75 A
Maks. wydajność	695 m³/h
Maks. ciśnienie statyczne	615 Pa
Temperatura otoczenia	-25...+60 °C
Regulacja obrotów	0-10 V / PWM

Budowa	
Wielkość	190 mm
Silnik	M3G055-BI
Materiał wirnika	tworzywo PA
Obudowa	tworzywo PA
Liczba łopatek	7
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP54
Klasa izolacji	B
Zabezpieczenie silnika	elektroniczne
Łożyskowanie	kulkowe, uszczelnione
Masa	1,5 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



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

Measurement: LU-171430-1

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.

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K3G190-RC05-19

EC centrifugal module - RadiCal

 backward-curved, single-intake
with housing

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	K3G190-RC05-19	
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	3200
Power consumption	W	83
Current draw	A	0.75
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	1.5 kg
Size	190 mm
Motor size	55
Rotor surface	Thick-film passivated
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	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; (sealed)
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 61000-6-3 (household environment)
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	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	VDE

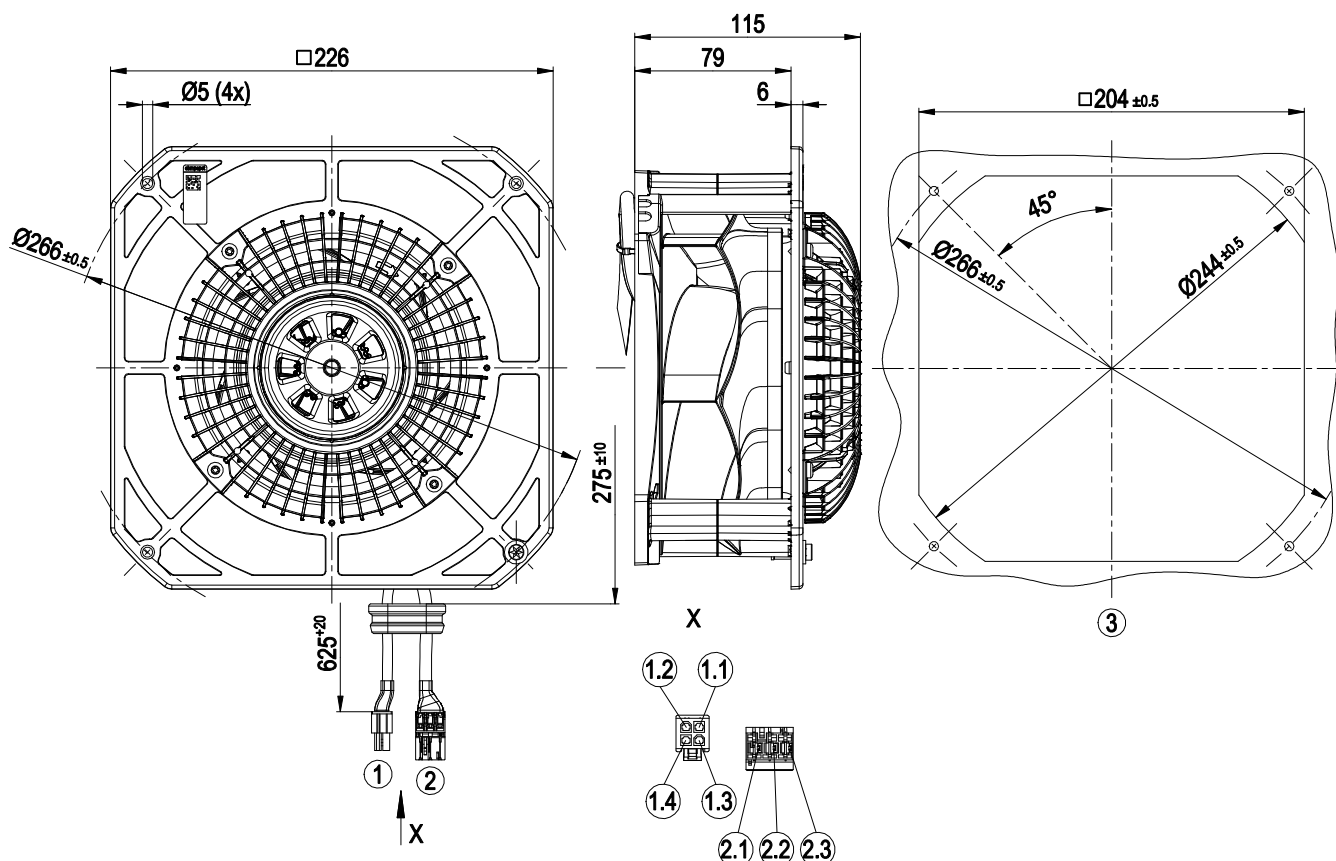


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Product drawing

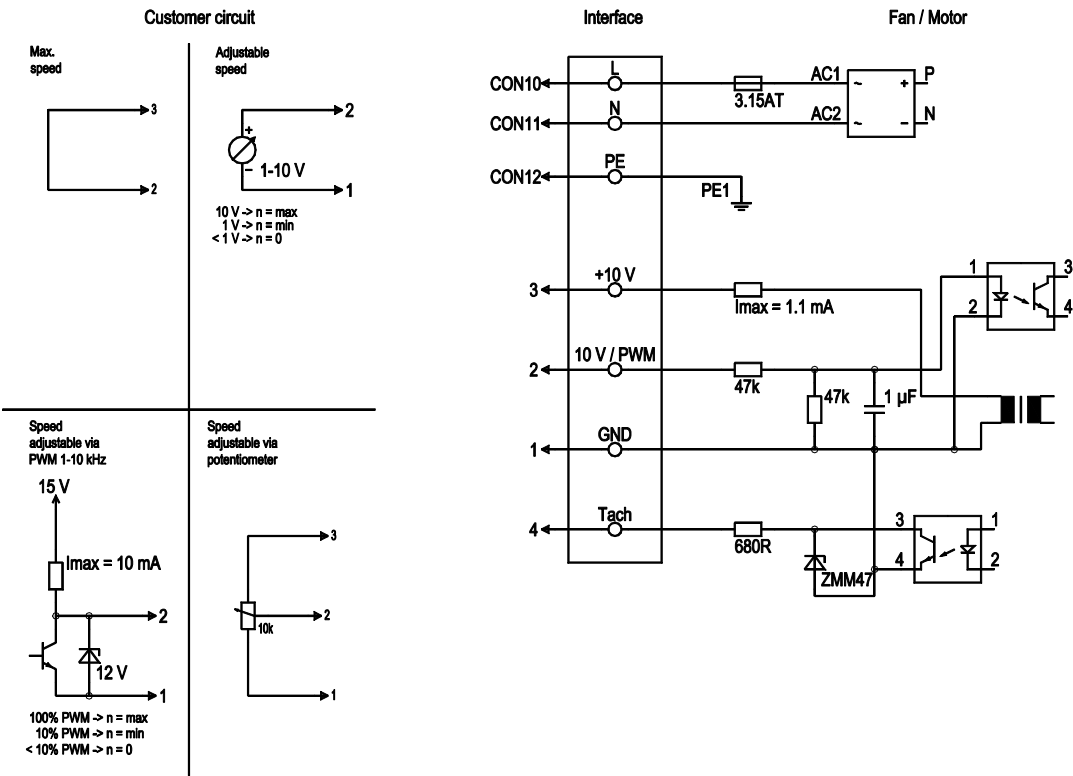


1	Cable PVC AWG22, 4-pole socket housing Stocko EH 715-004-003-960, 4x socket Stocko RBB 8230.020
1.1	0-10 V PWM (yellow)
1.2	10 V, 1.1 mA (red)
1.3	Tach (white)
1.4	GND (blue)
2	Cable PVC AWG20, 3-pole connector housing Stocko MFMP 9586-003-80D-512-000-00
2.1	PE (green/yellow)
2.2	N (blue)
2.3	L (black)

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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



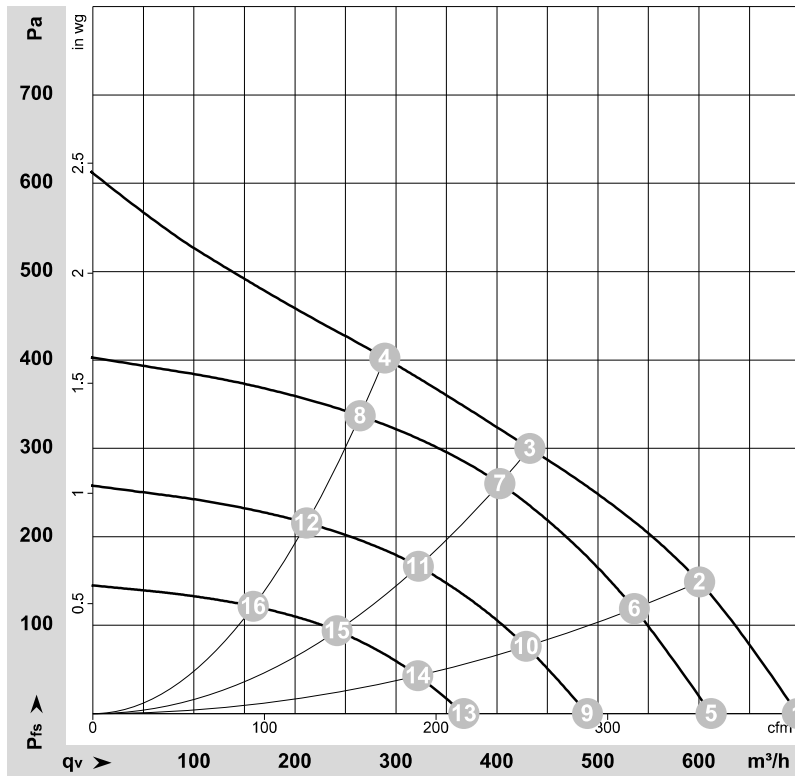
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Measured values

	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)	m ³ /h	Pa	cfm	in. wg
1	230	50	3420	75	0.67	66	73	695	0	410	0.00
2	230	50	3360	79	0.70	60	68	600	150	355	0.60
3	230	50	3200	83	0.75	58	66	435	300	255	1.20
4	230	50	3275	83	0.73	60	69	290	400	170	1.61
5	230	50	3000	51	0.45			610	0	360	0.00
6	230	50	3000	56	0.50			535	119	315	0.48
7	230	50	3000	69	0.60			405	261	235	1.05
8	230	50	3000	64	0.56			265	337	155	1.35
9	230	50	2400	26	0.23			490	0	290	0.00
10	230	50	2400	29	0.26			430	76	250	0.31
11	230	50	2400	35	0.31			320	167	190	0.67
12	230	50	2400	33	0.29			210	216	125	0.87
13	230	50	1800	11	0.10			365	0	215	0.00
14	230	50	1800	12	0.11			320	43	190	0.17
15	230	50	1800	15	0.13			240	94	140	0.38
16	230	50	1800	14	0.12			160	121	95	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

