

KARTA KATALOGOWA

R3G175-RG19-06

Wentylator promieniowy EC RadiCal, łopatki zakrzywione do tyłu

Producent: ebm-papst

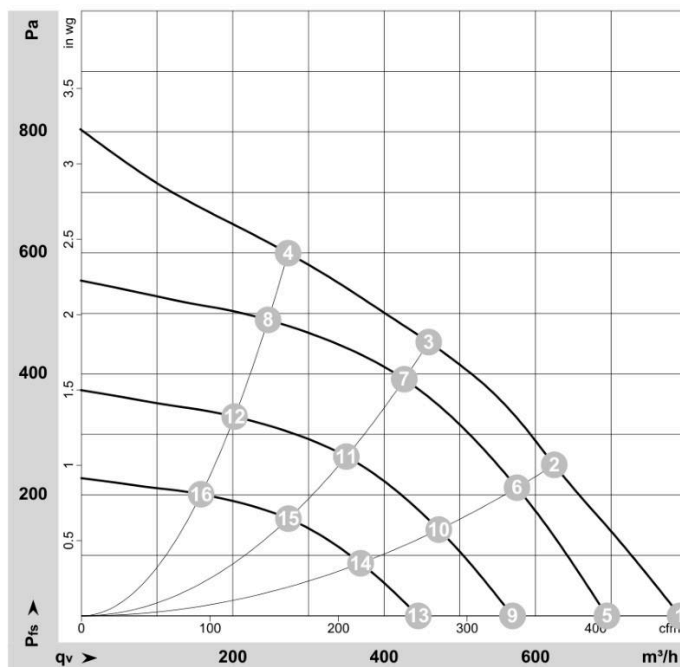


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V (200...240 V)	Wielkość	175 mm
Częstotliwość	50/60 Hz	Silnik	M3G055-CF
Prędkość obrotowa	4200 obr/min	Materiał wirnika	tworzywo PA
Pobór mocy	115 W	Obudowa elektroniki	odlew aluminiowy
Pobór prądu	1,0 A	Liczba łopatek	7
Maks. wydajność	790 m³/h	Kierunek obrotów	w prawo, patrząc na wirnik
Maks. ciśnienie statyczne	800 Pa	Stopień ochrony	IP54
Temperatura otoczenia	-25...+60 °C	Klasa izolacji	B
Regulacja obrotów	0-10 V / PWM	Zabezpieczenie silnika	ochrona przed zablokowaniem wirnika
		Łożyskowanie	kulkowe
		Masa	1,4 kg

Charakterystyka przepływowa (50 Hz)

Charts: Air flow 50 Hz



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

Measurement: LU-172908-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L_{WA} measured as per ISO 13347 / L_{pA} measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

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

tel. +48 600 100 371 · tel. +48 604 959 199
biuro@luftberg.pl · www.luftberg.pl

R3G175-RG19-06

EC centrifugal fan - RadiCal

backward curved

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	R3G175-RG19-06	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min ⁻¹	4200
Power input	W	115
Current draw	A	1.0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



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Technical features

Mass	1.4 kg
Size	175 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	PA plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP54
Insulation class	"B"
Humidity (F)/environmental protection class (H)	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Tach output - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Over-temperature protected electronics / motor - Line undervoltage detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

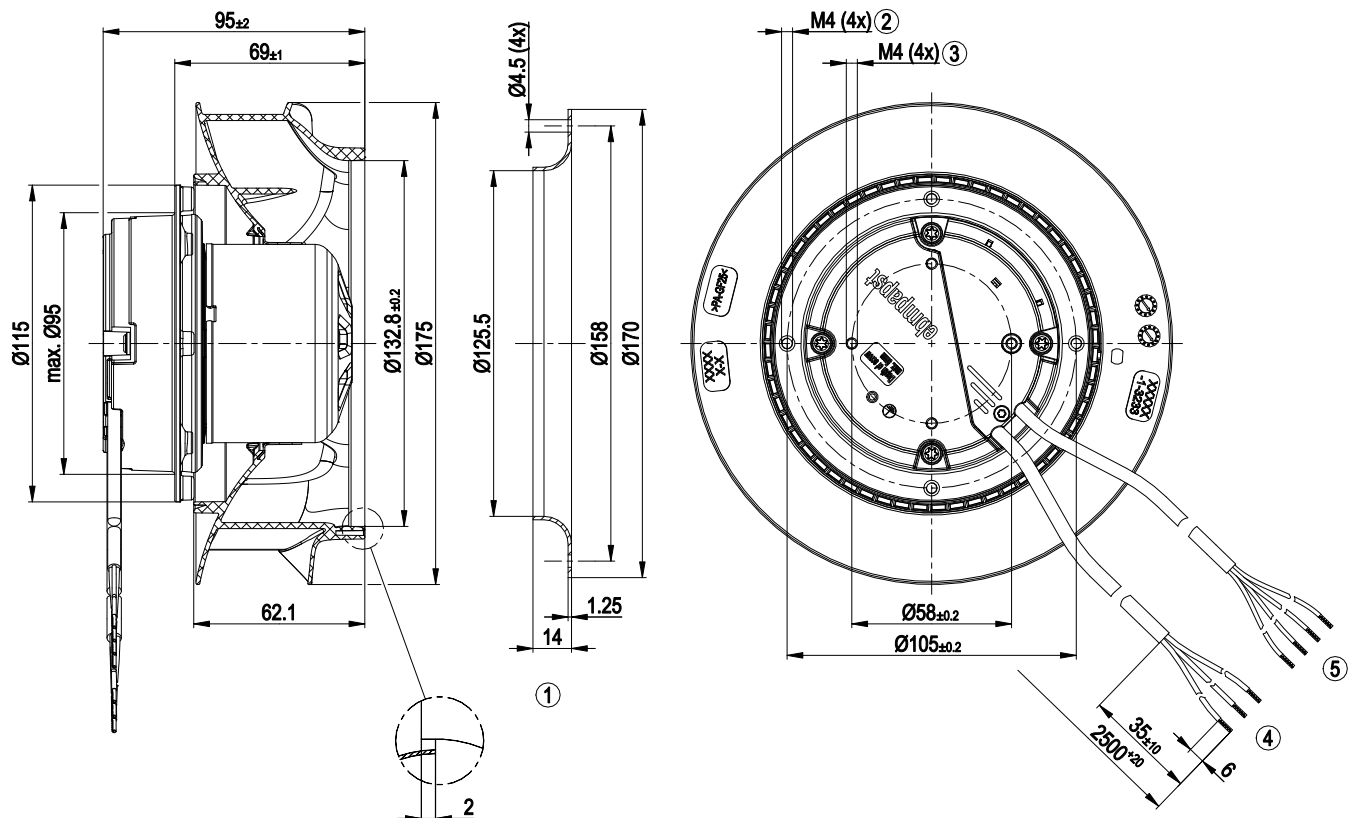


R3G175-RG19-06

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Product drawing



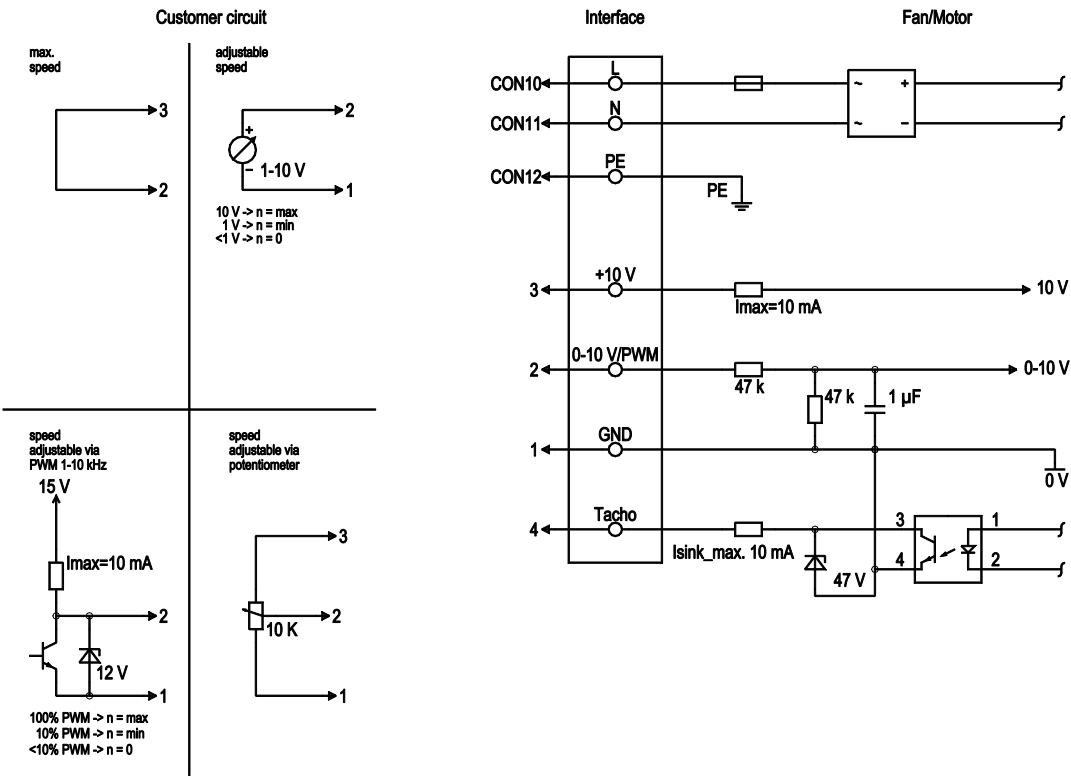
- | | |
|---|---|
| 1 | Accessory part: Inlet nozzle 09576-2-4013 not included in scope of delivery |
| 2 | Thread reach max. 6 mm |
| 3 | Thread reach max. 5 mm |
| 4 | Connection line PVC 4x 0.25 mm ² , 4x lead tips crimped |
| 5 | Connection line PVC 3G 0.5 mm ² , 3x lead tips crimped |

R3G175-RG19-06

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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	brown	Mains connection, power supply, phase, see type plate for voltage range
	CON11	N	blue	Mains connection, power supply, neutral conductor, see type plate for voltage range
	CON12	PE	green/yellow	Earth connection
	2	0- 10V PWM	yellow	0-10 V/PWM control input, R _i =100 kΩ, SELV
	4	Tach	white	Speed monitoring output, open collector, 1 pulse per revolution, I _{sink max} = 10 mA, SELV
	3	+10 V	red	Fixed voltage output 10 VDC +/-3 %, I _{max} . 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer), SELV
	1	GND	blue	Signal ground for control interface, SELV

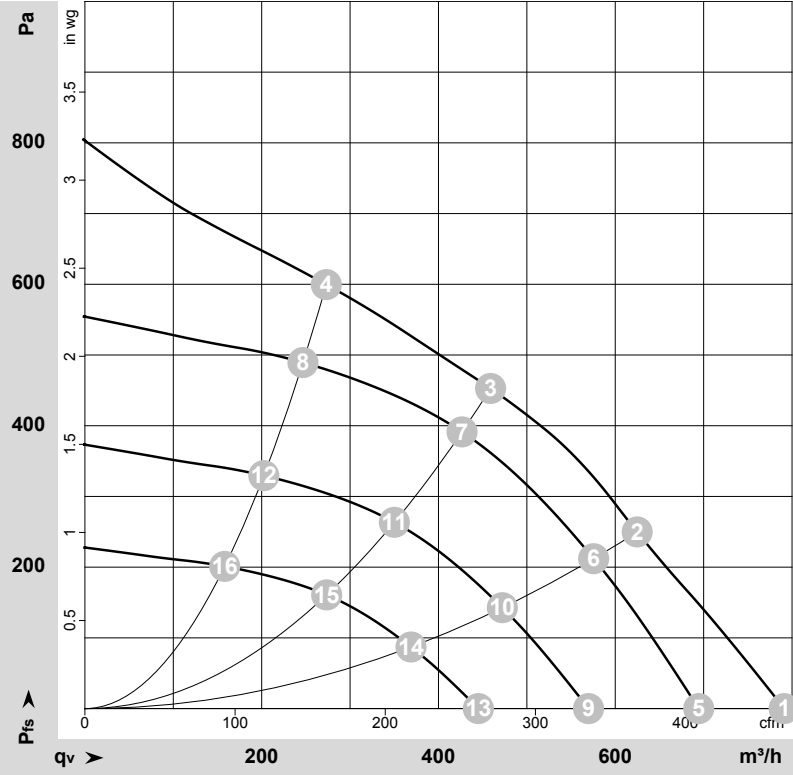


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levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
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measuring conditions mentioned above and
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installed.

Measured values

	U	f	n	P _{ed}	I	q _v	P _{fs}	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH2O
1	230	50	4445	106	0.89	790	0	465	0.00
2	230	50	4230	115	0.99	625	250	370	1.00
3	230	50	4200	115	1.00	460	450	270	1.81
4	230	50	4315	114	0.96	275	600	160	2.41
5	230	50	3900	72	0.60	695	0	410	0.00
6	230	50	3900	93	0.77	575	213	340	0.86
7	230	50	3900	95	0.79	425	392	250	1.57
8	230	50	3900	84	0.71	245	489	145	1.96
9	230	50	3200	40	0.33	570	0	335	0.00
10	230	50	3200	51	0.43	470	143	280	0.57
11	230	50	3200	53	0.44	350	264	205	1.06
12	230	50	3200	46	0.39	200	329	120	1.32
13	230	50	2500	19	0.16	445	0	260	0.00
14	230	50	2500	24	0.20	370	87	215	0.35
15	230	50	2500	25	0.21	275	161	160	0.65
16	230	50	2500	22	0.19	160	201	95	0.81

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

