

KARTA KATALOGOWA

R3G225-RD05-03

Wentylator promieniowy EC RadiCal, łopatki zakrzywione do tyłu, jednostronnie ssący

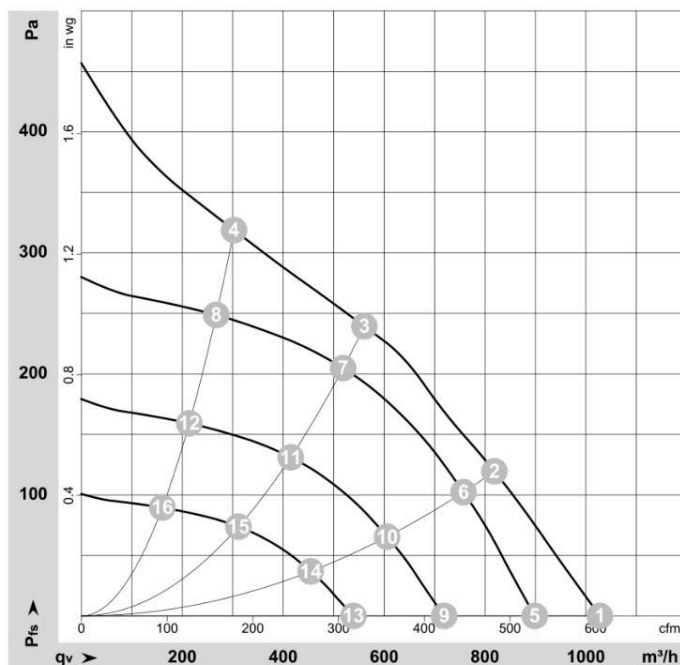
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V (200...240 V)	Wielkość	225 mm
Częstotliwość	50/60 Hz	Silnik	M3G055-CF
Prędkość obrotowa	2200 obr/min	Materiał wirnika	tworzywo PA
Pobór mocy	82 W	Obudowa elektroniki	odlew aluminiowy
Pobór prądu	0,7 A	Liczba łopatek	7
Maks. wydajność	1000 m³/h	Kierunek obrotów	w prawo, patrząc na wirnik
Maks. ciśnienie statyczne	455 Pa	Stopień ochrony	IP54
Temperatura otoczenia	-25...+60 °C	Klasa izolacji	B
Regulacja obrotów	0-10 V / PWM	Zabezpieczenie silnika	elektroniczne
		Łożyskowanie	kulkowe
		Masa	1,4 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



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

Measurement: LU-128059-1

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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R3G225-RD05-03

EC centrifugal fan - RadiCal
backward-curved, single-intake



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Nominal data

Type	R3G225-RD05-03	
Motor	M3G055-CF	
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	2200
Power consumption	W	82
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	1.4 kg
Size	225 mm
Motor size	55
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller 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	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE; UKCA
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1

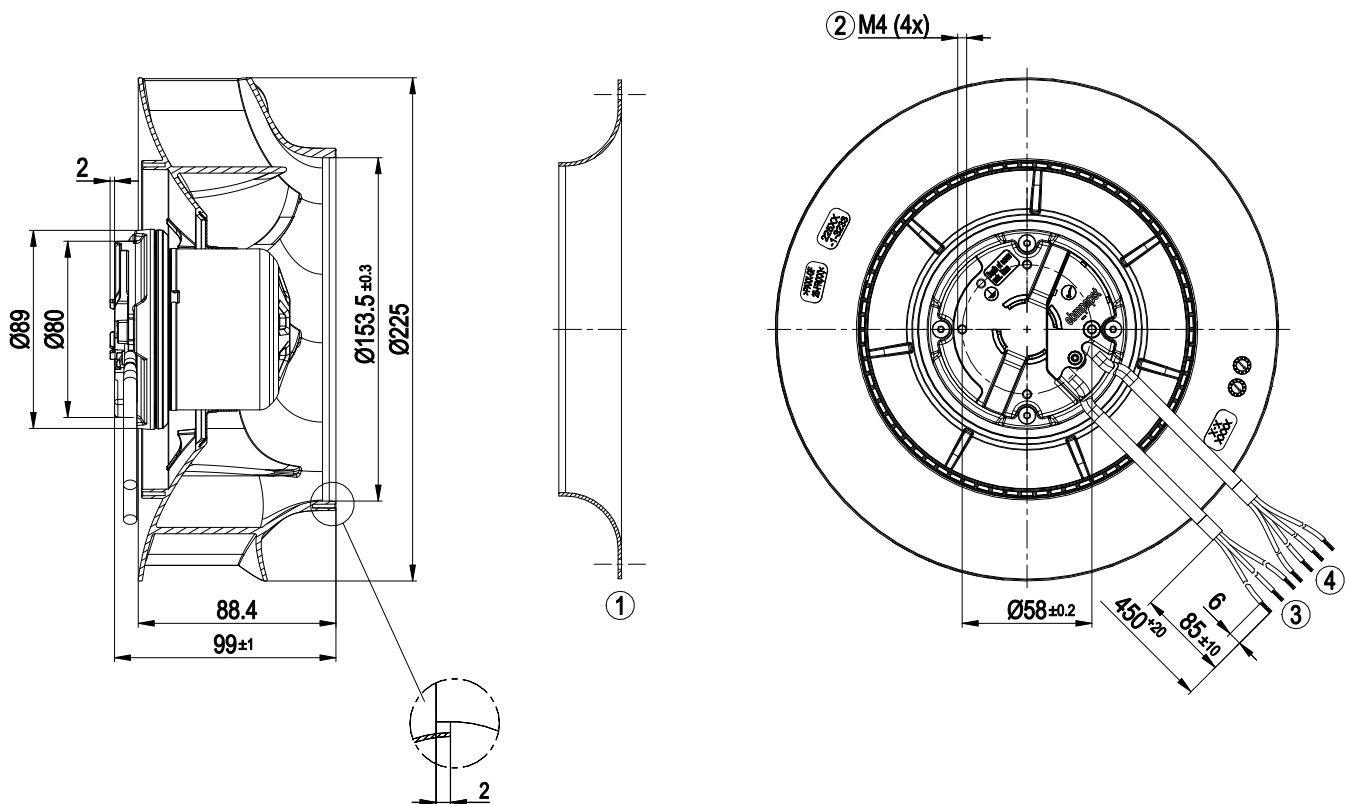


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Product drawing



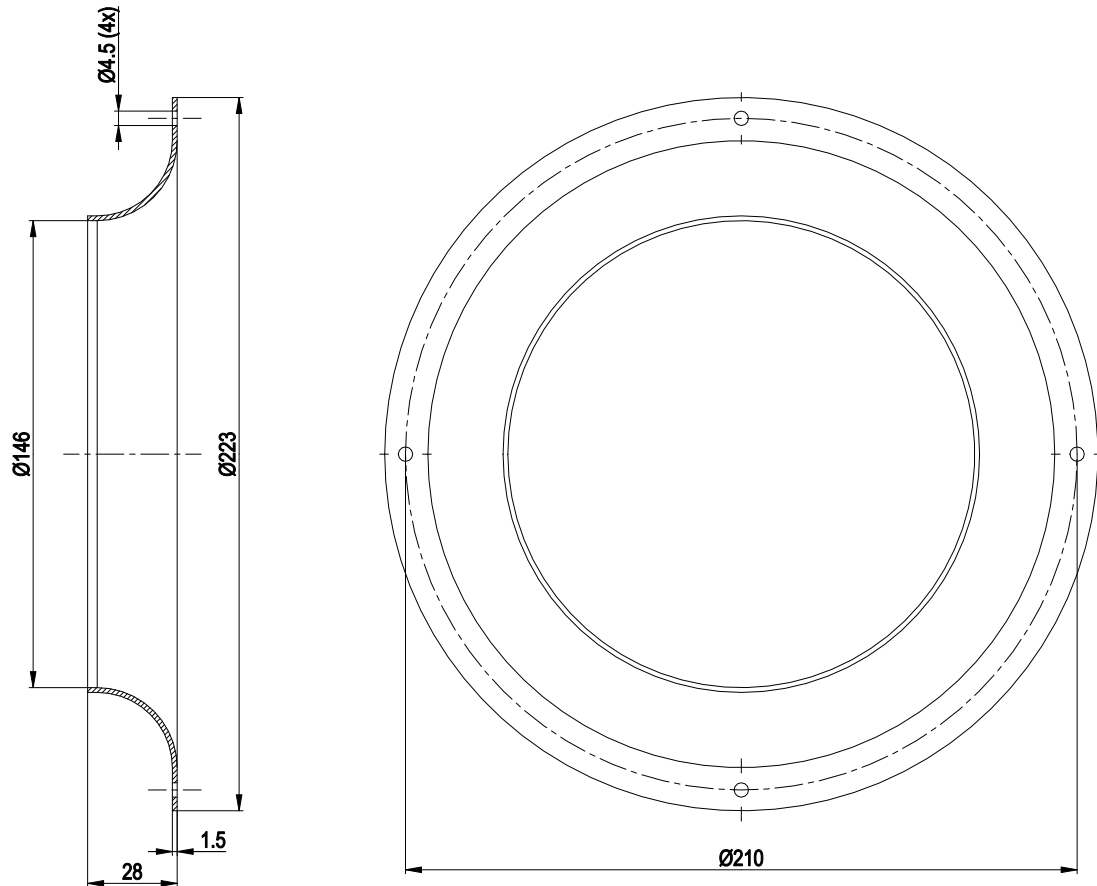
1	Accessory part: inlet ring 96358-2-4013 not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Cable PVC AWG20, 3x crimped splices
4	Cable PVC AWG22, 4x crimped splices

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Accessory part



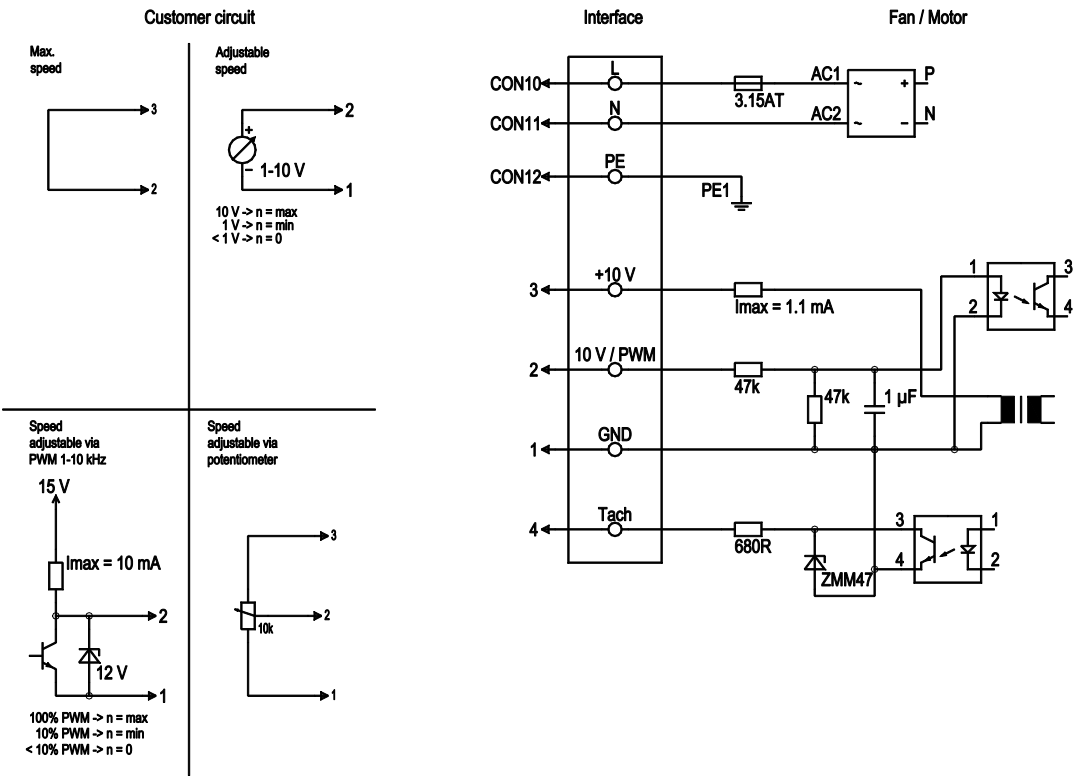
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Connection diagram



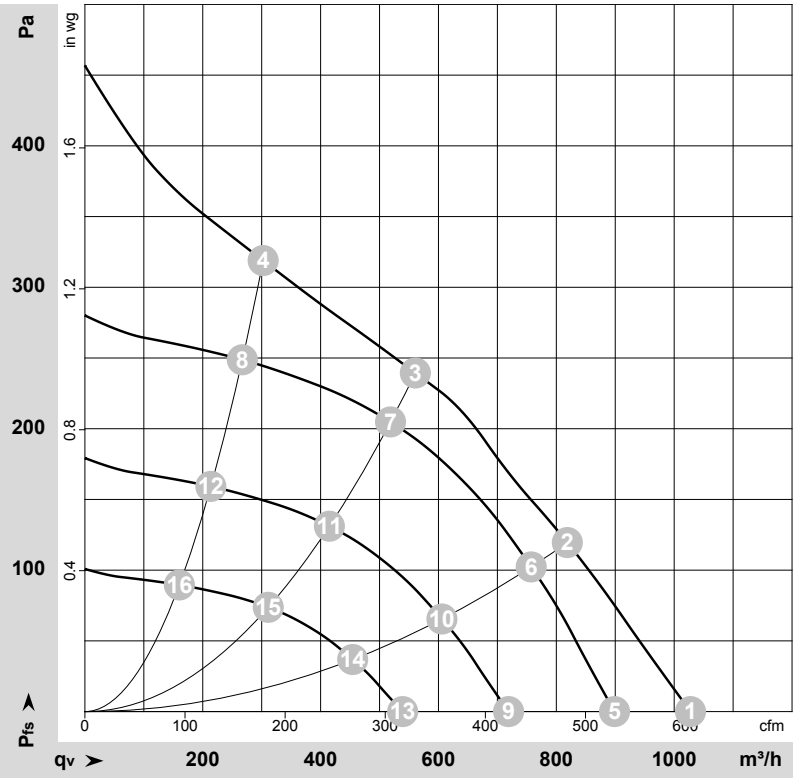
No.	Conn.	Designation	Color	Function/assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection for control interface
	2	0-10V PWM	yellow	Control input 0-10 V or PWM, electrically 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	2285	70	0.62	62	69	1030	0	605	0.00
2	230	50	2160	79	0.66	57	64	820	120	480	0.48
3	230	50	2200	82	0.70	52	60	560	240	330	0.96
4	230	50	2265	70	0.60	59	68	305	320	180	1.28
5	230	50	2000	47	0.41	58	66	900	0	530	0.00
6	230	50	2000	63	0.53	55	62	755	102	445	0.41
7	230	50	2000	61	0.52	50	58	520	205	305	0.82
8	230	50	2000	48	0.42	56	64	265	249	155	1.00
9	230	50	1600	24	0.21	53	60	720	0	425	0.00
10	230	50	1600	32	0.27	49	57	605	66	355	0.26
11	230	50	1600	31	0.27	45	52	415	131	245	0.53
12	230	50	1600	25	0.21	50	59	215	159	125	0.64
13	230	50	1200	10.0	0.09	45	53	540	0	315	0.00
14	230	50	1200	14	0.11	42	49	455	37	265	0.15
15	230	50	1200	13	0.11	37	45	310	74	185	0.30
16	230	50	1200	10.0	0.09	43	52	160	90	95	0.36

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

