

KARTA KATALOGOWA

R3G160-RB31-12

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

Producent: ebm-papst



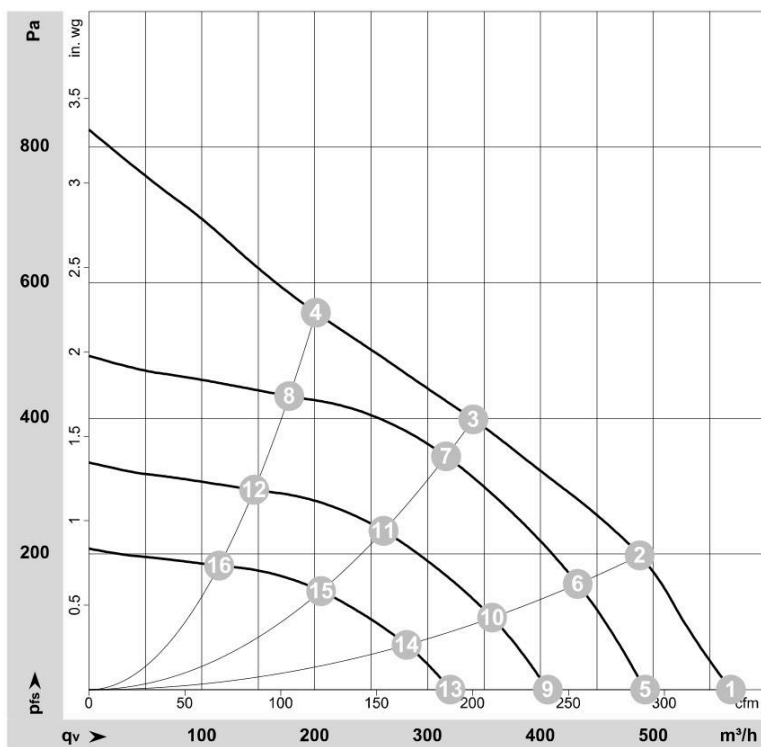
Zdjęcie poglądowe

Dane znamionowe	
Napięcie znamionowe	1~ 230 V (200...240 V)
Częstotliwość	50/60 Hz
Prędkość obrotowa	4300 obr/min
Pobór mocy	85 W
Pobór prądu	0,75 A
Maks. wydajność	570 m³/h
Maks. ciśnienie statyczne	550 Pa
Temperatura otoczenia	-25...+60 °C

Budowa	
Średnica wirnika	160 mm
Materiał wirnika	tworzywo PP
Stopień ochrony	IP54
Klasa izolacji	B
Masa	0,9 kg

Charakterystyka przepływowa

Curves: Air performance 50 Hz



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

Measurement: LU-193699-1

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 podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości znamionowe dla punktu maksymalnego obciążenia; 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

EC centrifugal fan - RadiCal

backward-curved, single-intake

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

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

R3G160-RB31-12

Type	R3G160-RB31-12	
Motor	M3G055-BD	
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	4300
Power consumption	W	85
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	0.9 kg
Size	160 mm
Motor size	55
Rotor surface	Thick-film passivated
Impeller material	PP plastic
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	- Speed setting input (230 V) - Power limiter - Motor current limitation - Soft start - Thermal overload protection for electronics/motor - Line undervoltage detection
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 60034-1; EN 60204-1; EN 60335-1; CE
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; UL 1004-7 + 60730-1

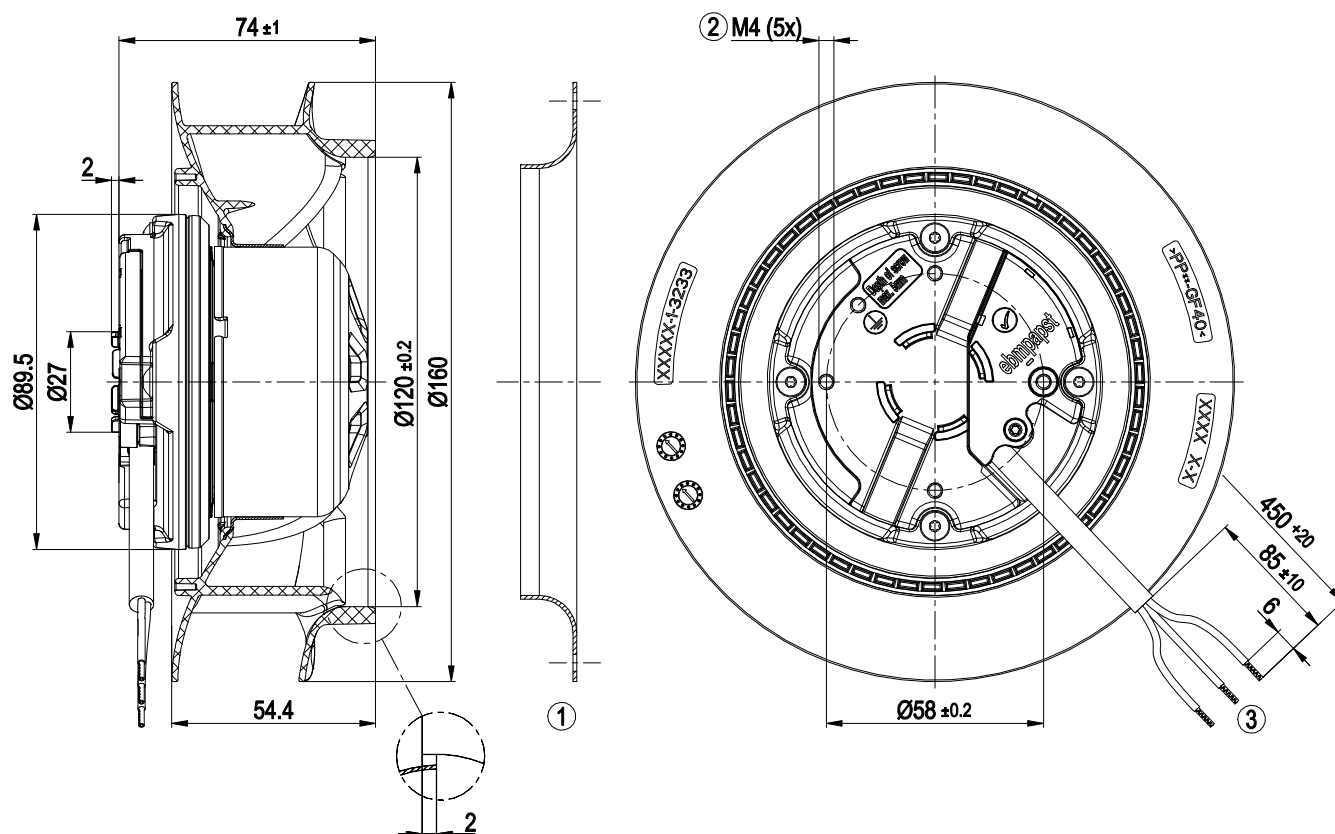


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Product drawing



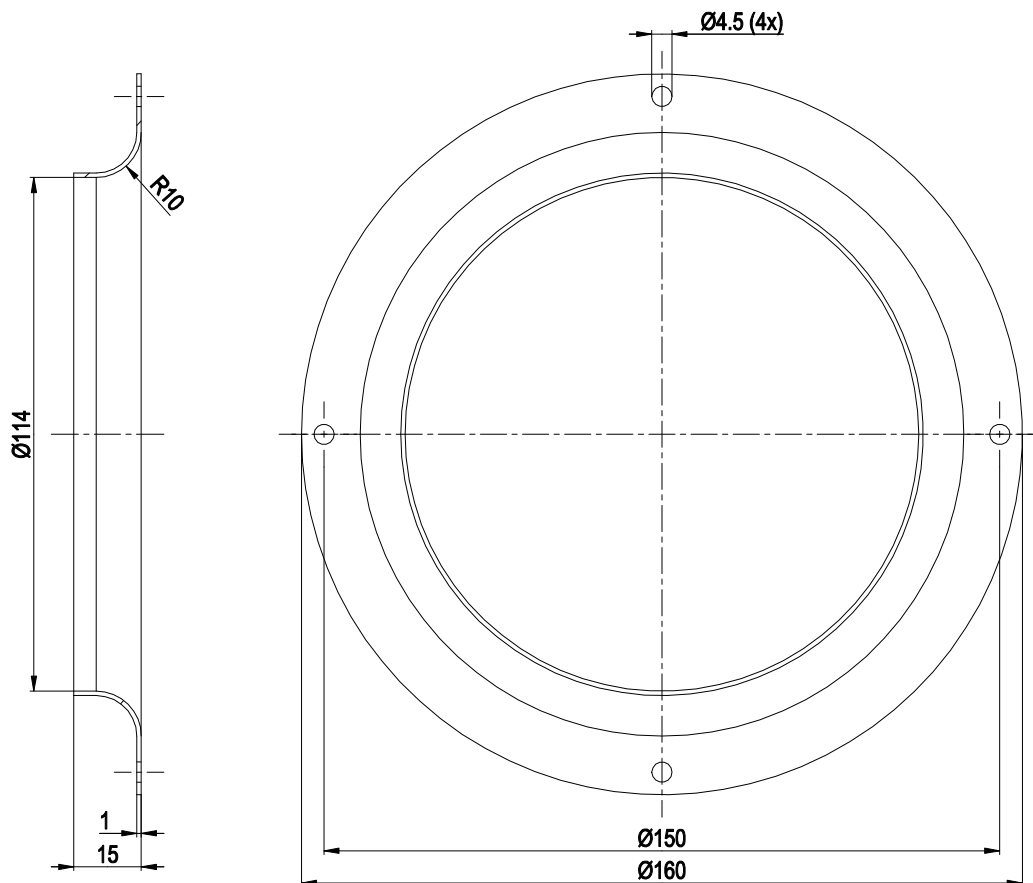
1	Accessory part: Inlet ring 09567-2-4013 (not included in scope of delivery)
2	Max. clearance for screw 5 mm
3	Cable PVC AWG20
	3x splice

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Accessory part



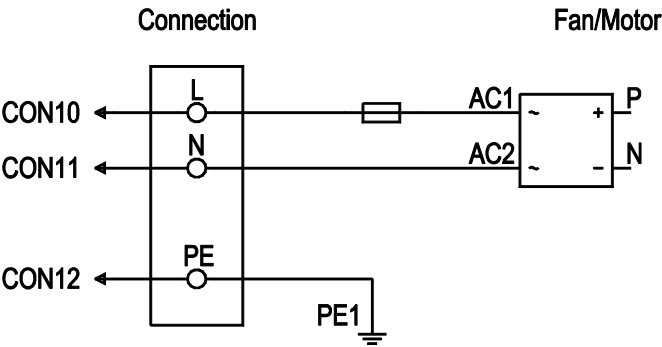
Inlet ring 09567-2-4013

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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	CON 10	L	black	Power supply 230 VAC, 50 - 60 Hz, see nameplate for voltage range
	CON 11	N	blue	Neutral conductor
	CON 12	PE	green/yellow	Protective earth

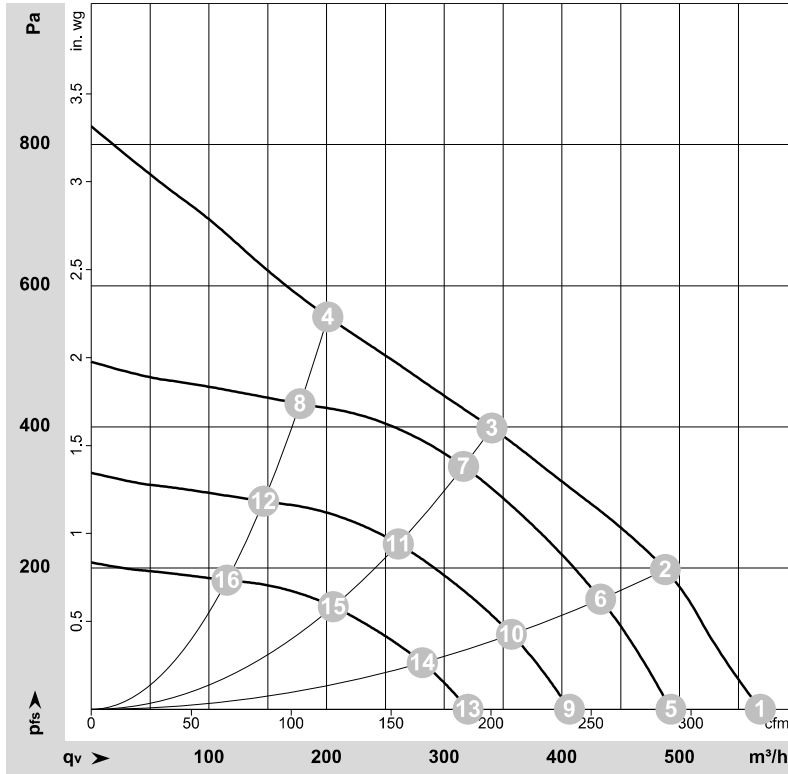


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Measured values

	Wired	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	1~	230	50	4615	85	0.75	68	76	570	0	335	0.00
2	1~	230	50	4510	85	0.75	65	74	490	200	285	0.80
3	1~	230	50	4300	85	0.75	60	68	340	400	200	1.61
4	1~	230	50	4530	85	0.75	65	74	200	550	120	2.21
5	1~	230	50	4000	55	0.48	65	73	495	0	290	0.00
6	1~	230	50	4000	59	0.51	63	71	435	157	255	0.63
7	1~	230	50	4000	67	0.59	58	66	315	345	185	1.39
8	1~	230	50	4000	59	0.51	62	71	175	433	105	1.74
9	1~	230	50	3300	31	0.27	60	68	405	0	240	0.00
10	1~	230	50	3300	33	0.29	58	66	355	107	210	0.43
11	1~	230	50	3300	38	0.33	53	61	260	235	155	0.94
12	1~	230	50	3300	33	0.29	57	66	145	294	85	1.18
13	1~	230	50	2600	15	0.13	54	62	320	0	190	0.00
14	1~	230	50	2600	16	0.14	52	60	280	66	165	0.26
15	1~	230	50	2600	18	0.16	47	55	205	146	120	0.59
16	1~	230	50	2600	16	0.14	51	60	115	183	70	0.73

Wired = Wiring · 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

