

KARTA KATALOGOWA

K3G133-RA01-03

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

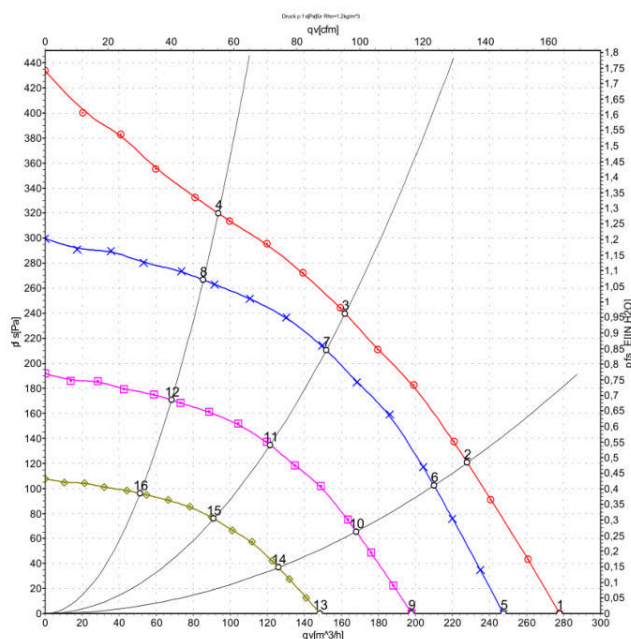
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V (200...240 V)	Wielkość	133 mm
Częstotliwość	50/60 Hz	Silnik	M3G045-AI
Prędkość obrotowa	3770 obr/min	Materiał wirnika	tworzywo PA
Pobór mocy	27 W	Obudowa	tworzywo PA
Pobór prądu	0,27 A	Obudowa elektroniki	odlew aluminiowy
Maks. wydajność	280 m³/h	Liczba łopatek	7
Maks. ciśnienie statyczne	420 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	ochrona przed zablokowaniem wirnika
		Łożyskowanie	kulkowe
		Masa	0,9 kg

Charakterystyka przepływowa (50 Hz)

Charts: Air flow 50 Hz



Measurement: LU-131806

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: LwA measured as per ISO 13347 / LpA 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.

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K3G133-RA01-03

EC centrifugal module - RadiCal

backward curved, single inlet
with housing



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Nominal data

Type	K3G133-RA01-03	
Motor	M3G045-AI	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	3770
Power input	W	27
Current draw	A	0.27
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

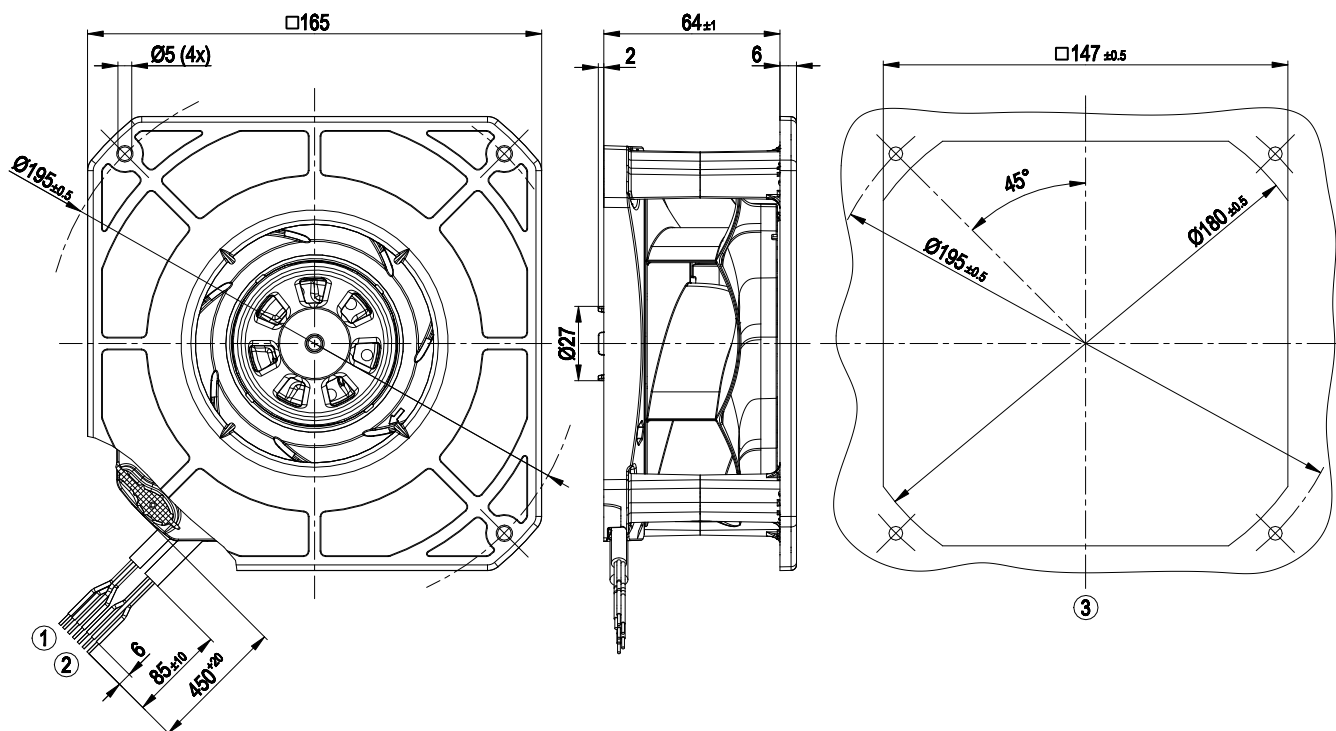
Mass	0.9 kg
Size	133 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	PA plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	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. 1.1 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
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC; UL 1004-7 + 60730; C22.2 Nr.77 + CAN/CSA-E60730-1

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Product drawing



- | | |
|---|--|
| 1 | Control line PVC 4X AWG22, 4 x brass lead tips crimped |
| 2 | Connection line PVC 3G AWG20, 3x brass lead tips crimped |
| 3 | Mounting dimensions |

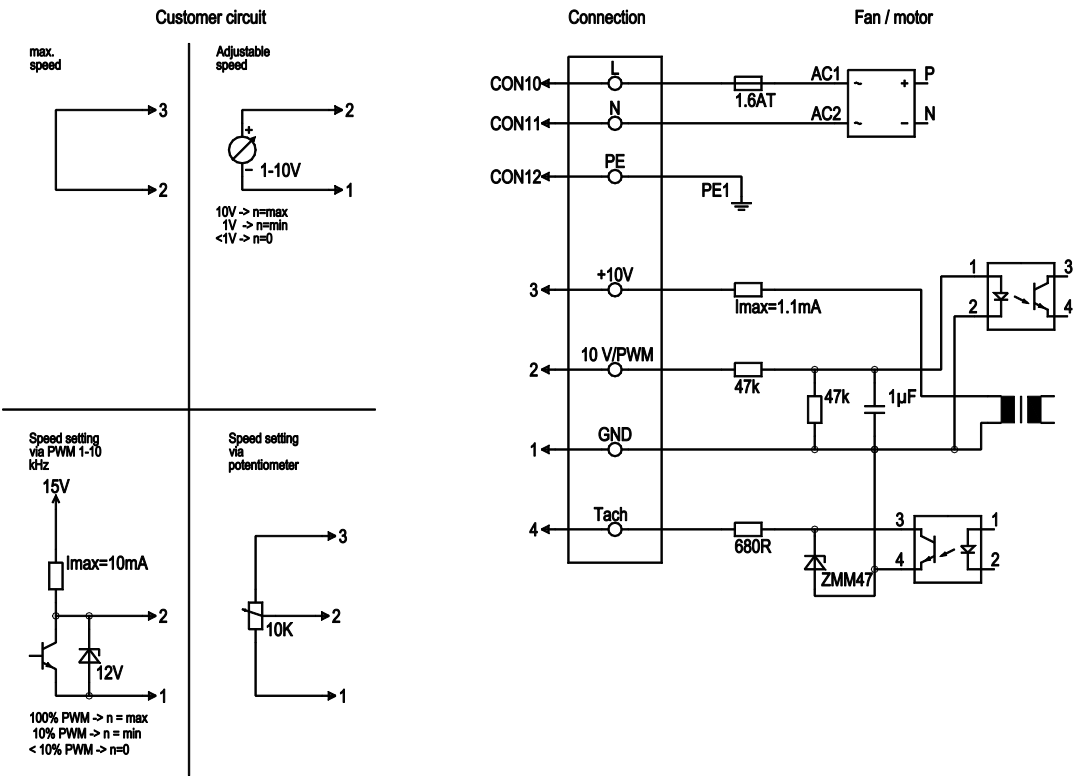
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see type plate 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	10V/ max 1.1mA	red	Voltage output 10V/ 1.1mA, electrically isolated, not short-circuit-proof.
	4	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated



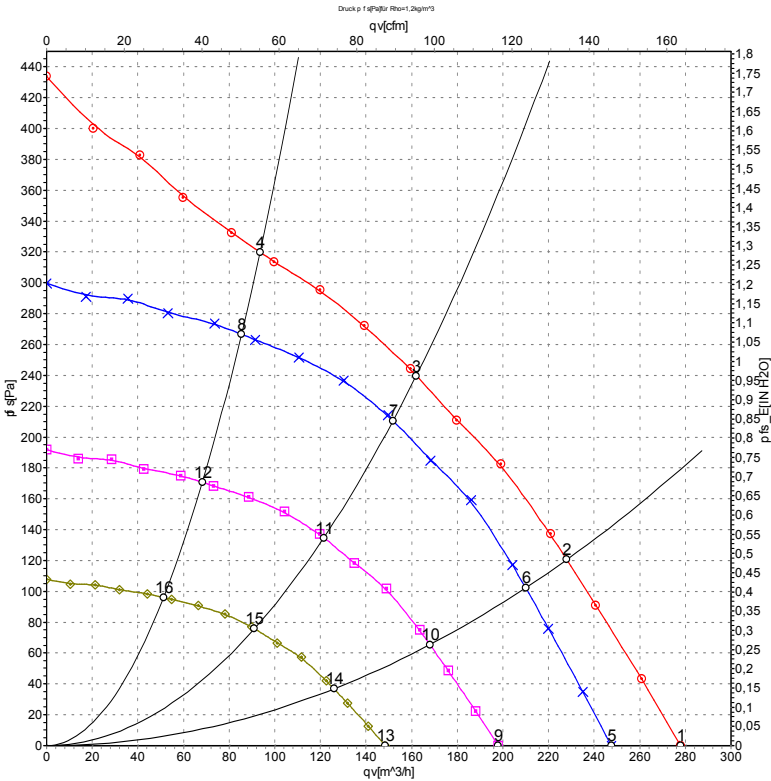
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Measured values

	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	230	50	3930	24	0.23	58	66	280	0
2	230	50	3800	26	0.26	54	63	230	120
3	230	50	3770	27	0.27	52	61	160	240
4	230	50	3835	26	0.25	56	65	95	320
5	230	50	3500	17	0.16	55	64	250	0
6	230	50	3500	20	0.20	53	61	210	102
7	230	50	3500	22	0.22	51	59	150	211
8	230	50	3500	19	0.19	54	63	85	267
9	230	50	2800	8.5	0.08	50	59	200	0
10	230	50	2800	10	0.10	48	57	170	66
11	230	50	2800	11	0.11	46	55	120	135
12	230	50	2800	9.9	0.10	49	59	70	171
13	230	50	2100	3.6	0.04	44	53	150	0
14	230	50	2100	4.4	0.04	42	50	125	37
15	230	50	2100	4.8	0.05	39	48	90	76
16	230	50	2100	4.2	0.04	43	52	50	96

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
P_{fs} = Pressure increase

