

KARTA KATALOGOWA

R3G146-AD23-14

Wentylator promieniowy EC, łopatki zakrzywione do przodu, jednostronnie ssący

Producent: ebm-papst



Dane znamionowe

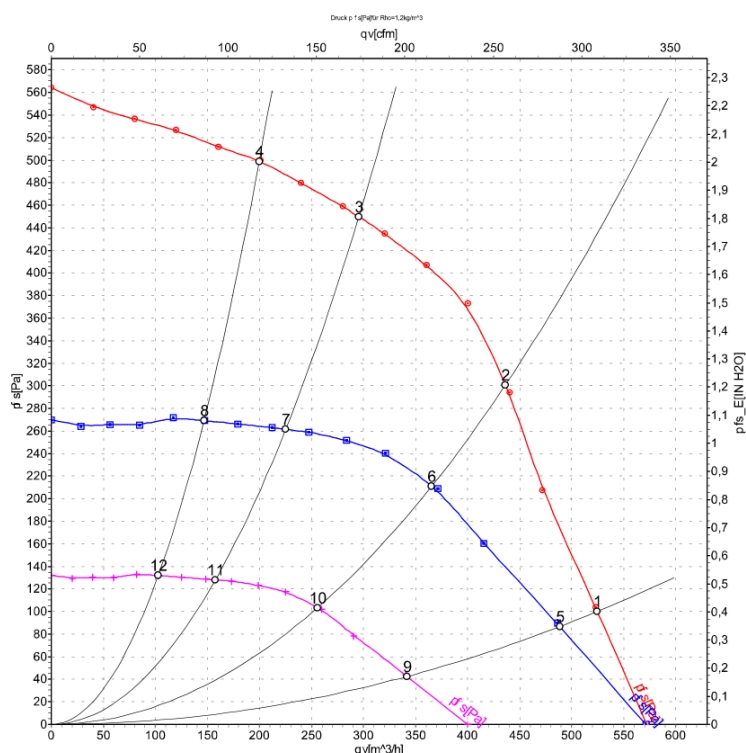
Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	2150 obr/min
Pobór mocy	119 W
Pobór prądu	0,9 A
Maks. wydajność	625 m³/h
Maks. ciśnienie statyczne	500 Pa
Temperatura otoczenia	-25...+40 °C

Budowa

Średnica wirnika	146 mm
Materiał wirnika	stal ocynkowana
Stopień ochrony	IP44
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP)
Masa	1,4 kg

Charakterystyka przepływowa

Charts: Air flow 50 Hz



Measurement: LU-70983

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

Wartości znamionowe dla punktu maksymalnego obciążenia; producent zastrzega możliwość zmian.

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R3G146-AD23-14

EC centrifugal fan

forward curved, single inlet



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Nominal data

Type	R3G146-AD23-14	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	2150
Power input	W	119
Current draw	A	0.9
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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	146 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	Sheet steel, galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
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	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Over-temperature protected motor
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	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

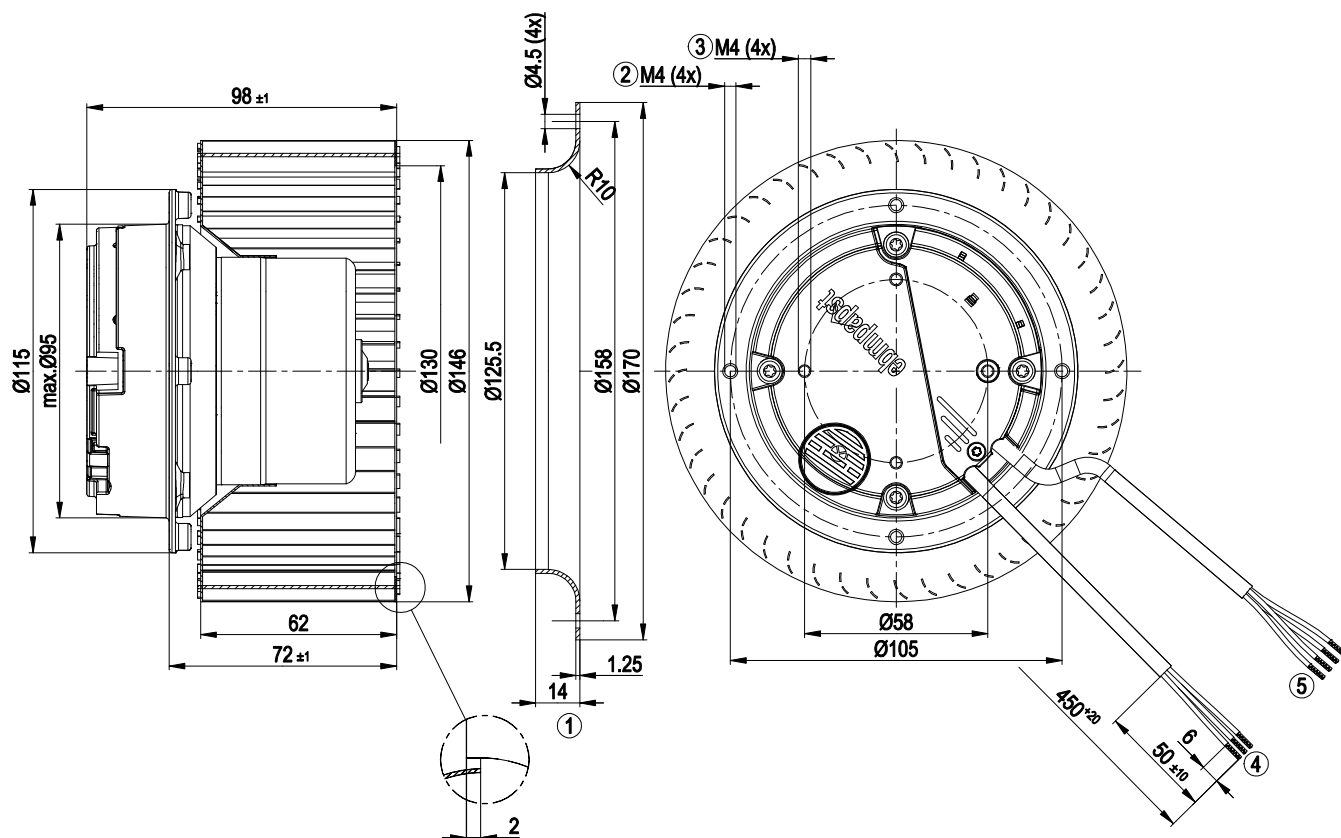


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Product drawing



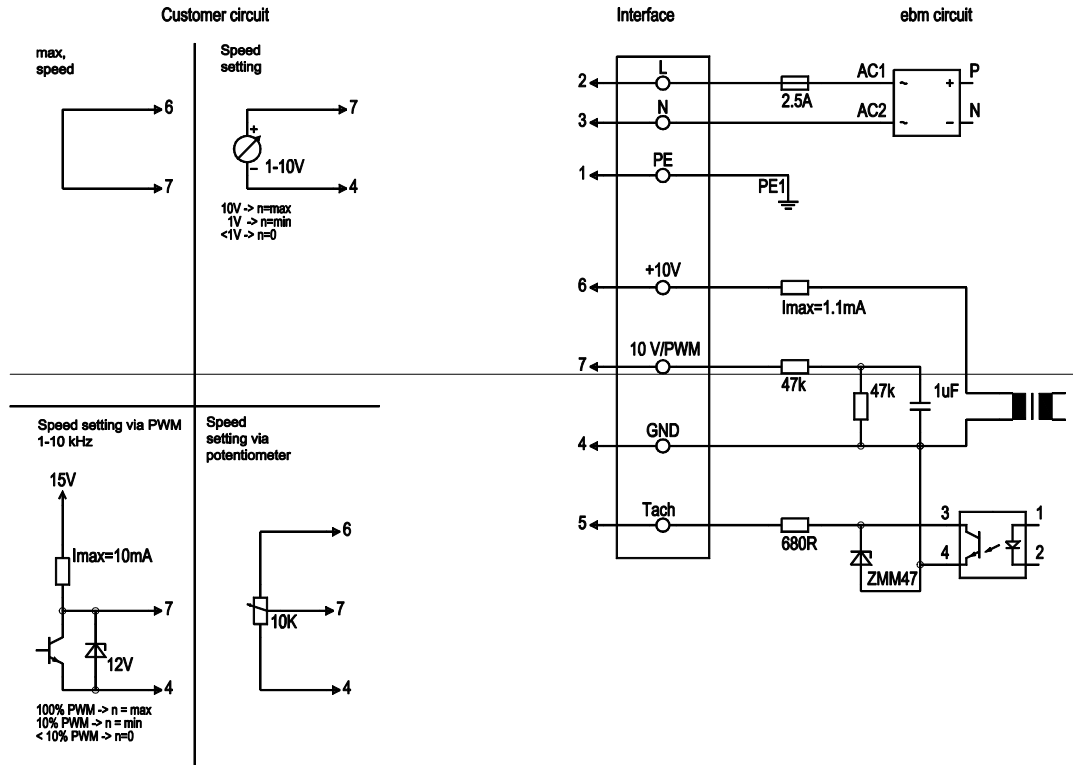
1	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
2	Depth of screw max. 6 mm
3	Depth of screw max. 6 mm
4	Connection line PVC 3G 0.5 mm ² , 3x brass lead tips crimped
5	Connection line PVC 4X 0.25 mm ² , 4x brass lead tips crimped

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Connection screen



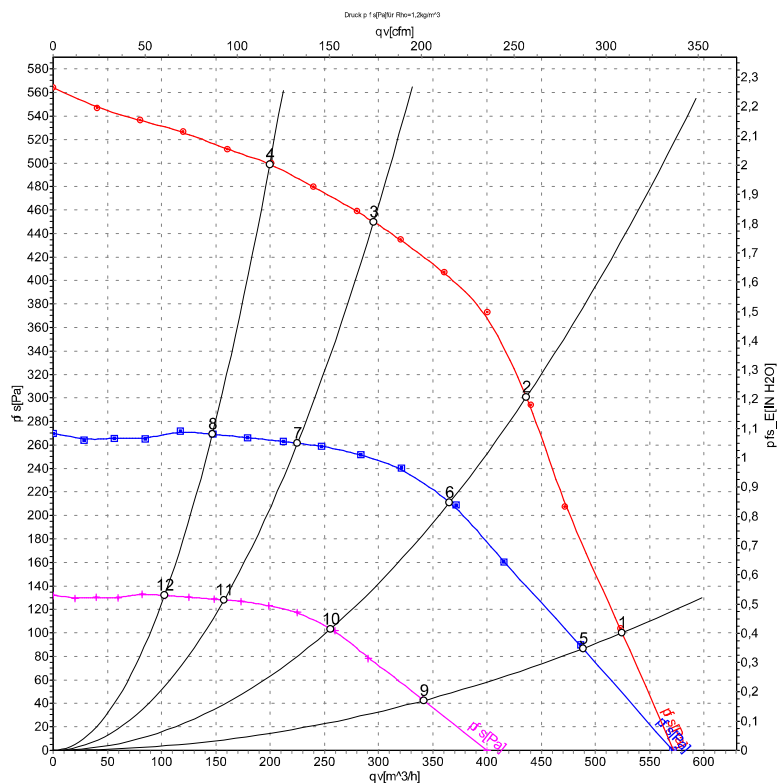
Line	No.	Signal	Colour	Function / assignment
	2	L	brown	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	Blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	7	0-10V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	5	Tacho	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	6	10V/ max 1.1mA	red	Voltage output 10V/ 1.1mA, electrically isolated, short-circuit-proof.
	4	GND	Blue	GND - Connection for control interface

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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
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standard set-up, the specific values have to
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installed.

Measured values

	U	f	n	P _{ed}	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	2150	119	0.90	525	100
2	230	50	2385	118	0.87	435	300
3	230	50	2625	95	0.71	295	450
4	230	50	2725	78	0.58	200	500
5	230	50	2000	96	0.71	490	87
6	230	50	2000	69	0.51	365	212
7	230	50	2000	42	0.31	225	262
8	230	50	2000	31	0.23	145	269
9	230	50	1400	33	0.24	340	43
10	230	50	1400	24	0.18	255	104
11	230	50	1400	14	0.11	160	128
12	230	50	1400	11	0.08	105	132

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

