

KARTA KATALOGOWA

R3G160-AD52-01

Wentylator promieniowy EC, łopatki zakrzywione do przodu, jednostronnie ssący

Producent: ebm-papst



Zdjęcie poglądowe

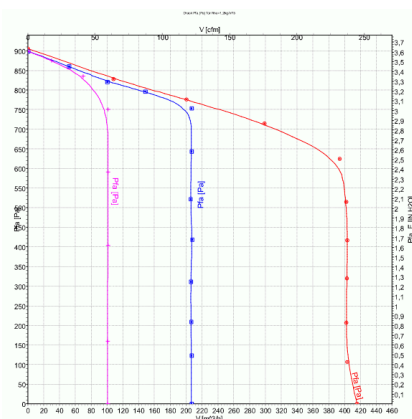
Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50 Hz
Prędkość obrotowa	2870 obr/min
Pobór mocy	170 W
Pobór prądu	1,2 A
Maks. wydajność	400 m³/h
Maks. ciśnienie statyczne	900 Pa
Temperatura otoczenia	-25...+60 °C

Dane ErP (UE 327/2011)	
Sprawność całkowita	43,7 %
Przepływ w pkt. optymalnym	395 m³/h
Przyrost ciśnienia	600 Pa
Regulacja obrotów	tak (0-10 V / PWM)

Budowa	
Średnica wirnika	160 mm
Materiał wirnika	stal ocynkowana
Stopień ochrony	IP44
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP)
Masa	1,8 kg

Charakterystyka przepływowa

Charts: Air flow 50 Hz



Measurement: LU-72532
Measurement: LU-72533
Measurement: LU-72534

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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EC centrifugal fan

forward curved, single inlet

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Nominal data

Type	R3G160-AD52-01	
Motor	M3G074-BF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Speed	min ⁻¹	2870
Power input	W	170
Current draw	A	1.2
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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.01

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	43.7	25.8	32.8
Efficiency grade N	54.9	37	44
Power input P_{ed}	kW	0.17	
Air flow q_v	m ³ /h	395	
Pressure increase p_{fs}	Pa	600	
Speed n	min ⁻¹	2870	

Data established at point of optimum efficiency



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Technical features

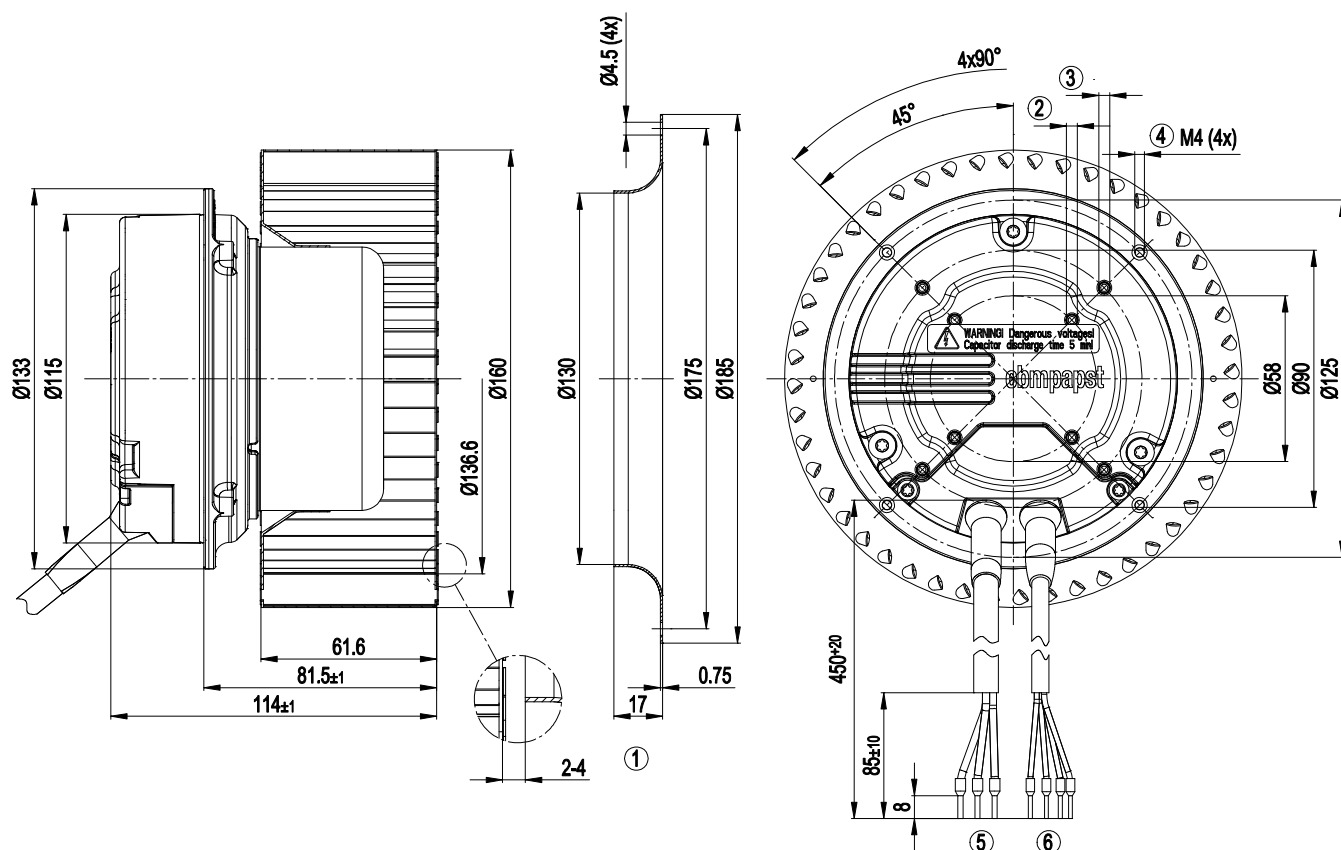
Mass	1.8 kg
Size	160 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	Sheet steel, hot-galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Set value input Lin 0-10 VDC / PWM (1.7 V corresponds to V=min, 10 V corresponds to V=max) - Over-temperature protected electronics / 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; CE

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Product drawing



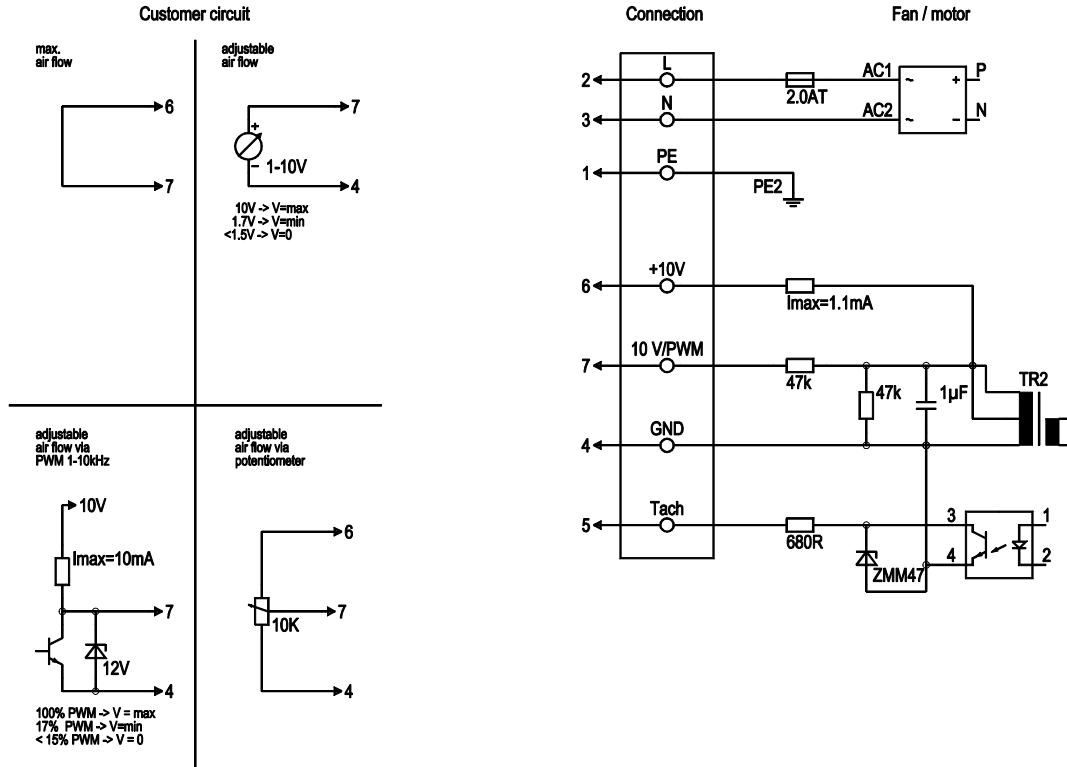
1	Accessory part: Inlet nozzle 09588-2-4013, not included in the standard scope of delivery
2	Pilot hole prepared for self-tapping screw M4, depth of screw max. 8 mm
3	Pilot hole prepared for self-tapping screw M4, depth of screw max. 6 mm
4	Depth of screw 8 -10 mm; tightening torque 2.5 ± 0.2 Nm; gluing the screws is recommended
5	Connection line PVC AWG18, 3x crimped core-end sleeves
6	Connection line PVC AWG22, 4x crimped core-end sleeves

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Connection screen



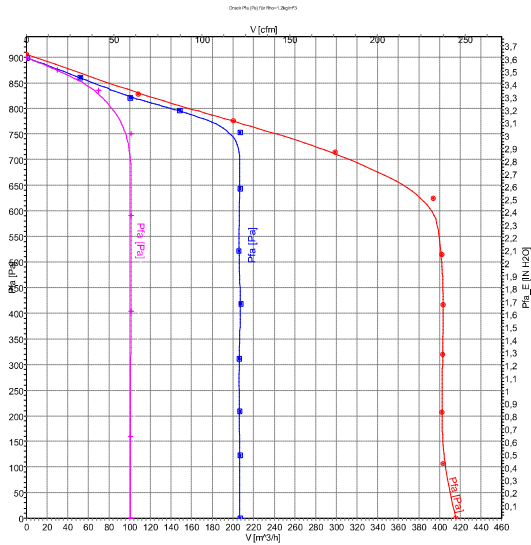
Line	No.	Signal	Colour	Function / assignment
	2	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	7	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	5	Tach	white	Tach output: open collector,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

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