

KARTA KATALOGOWA

R3G310-AJ40-71

Wentylator promieniowy EC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst



Dane znamionowe

Napięcie znamionowe	1~ 230 V (200...277 V)
Częstotliwość	50/60 Hz
Prędkość obrotowa	2430 obr/min
Pobór mocy	485 W
Pobór prądu	2,9 A
Maks. wydajność	3030 m³/h
Maks. ciśnienie statyczne	750 Pa
Temperatura otoczenia	-25...+35 °C

Budowa

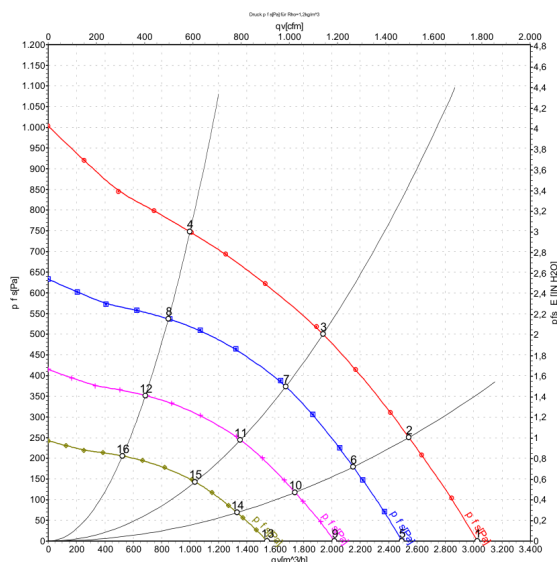
Średnica wirnika	310 mm
Materiał wirnika	blacha aluminiowa
Liczba łopatek	6
Stopień ochrony	IP54
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP)
Masa	4,56 kg

Dane ErP (UE 327/2011)

Sprawność całkowita	60,5 %
Przepływ w pkt. optymalnym	2005 m³/h
Przyrost ciśnienia	501 Pa
Regulacja obrotów	tak (0-10 V / PWM)

Charakterystyka przepływowa

Curves: Air performance 50 Hz



Measurement: LU-65567-1

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.

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R3G310-AJ40-71

EC centrifugal fan

backward-curved, single-intake



Nominal data

Type	R3G310-AJ40-71	
Motor	M3G084-DF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	2430
Power consumption	W	485
Current draw	A	2.9
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	35

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	60.5	48.4	09 Power consumption P_{ed}	kW	0.51
02 Measurement category		A		09 Air flow q_v	m³/h	2005
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	501
04 Efficiency grade N		74.1	62	10 Speed (rpm) n	min ⁻¹	2510
05 Variable speed drive		Yes		11 Specific ratio*		1.01

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$ LU-109696



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Technical description

Weight	4.56 kg
Size	310 mm
Motor size	84
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet aluminum
Number of blades	6
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	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Alarm relay - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - 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 61000-6-3 (household environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; CCC; EAC; UL 1004-3 + 60730-1

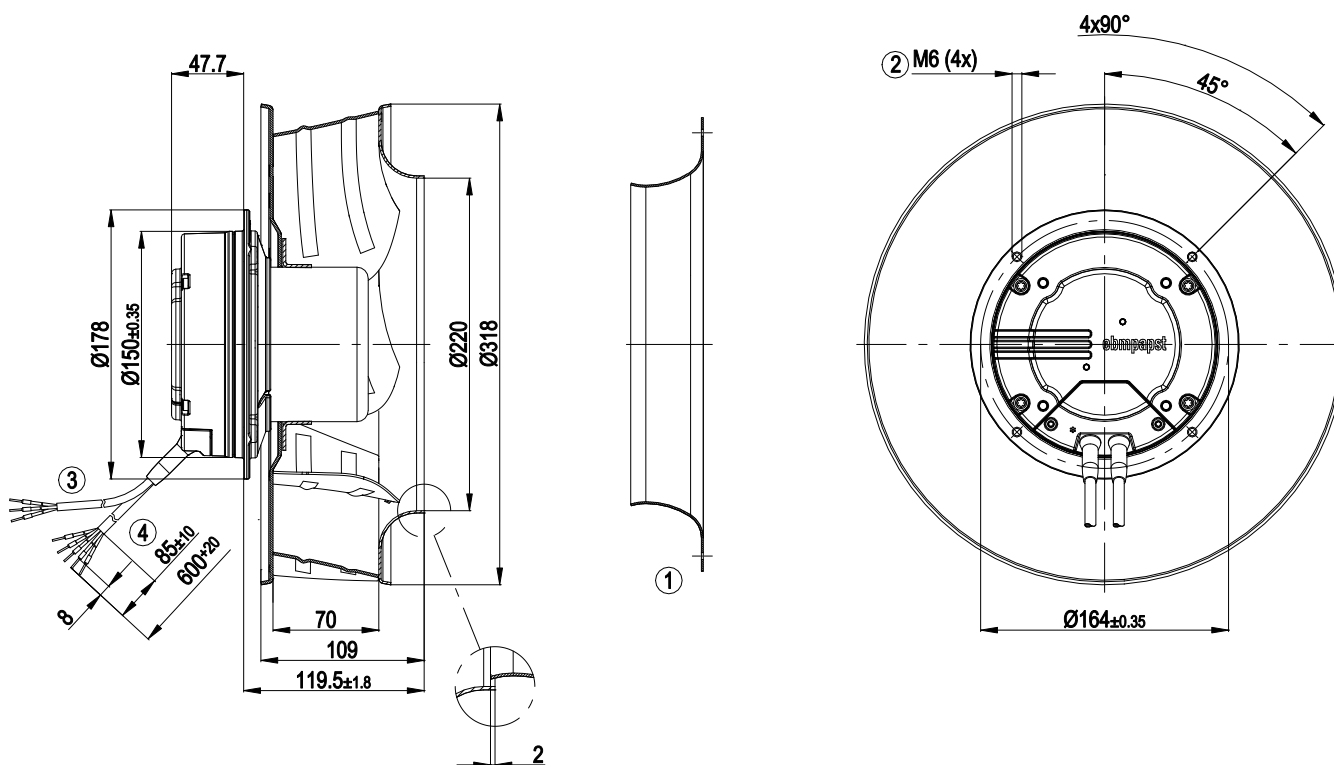


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Product drawing



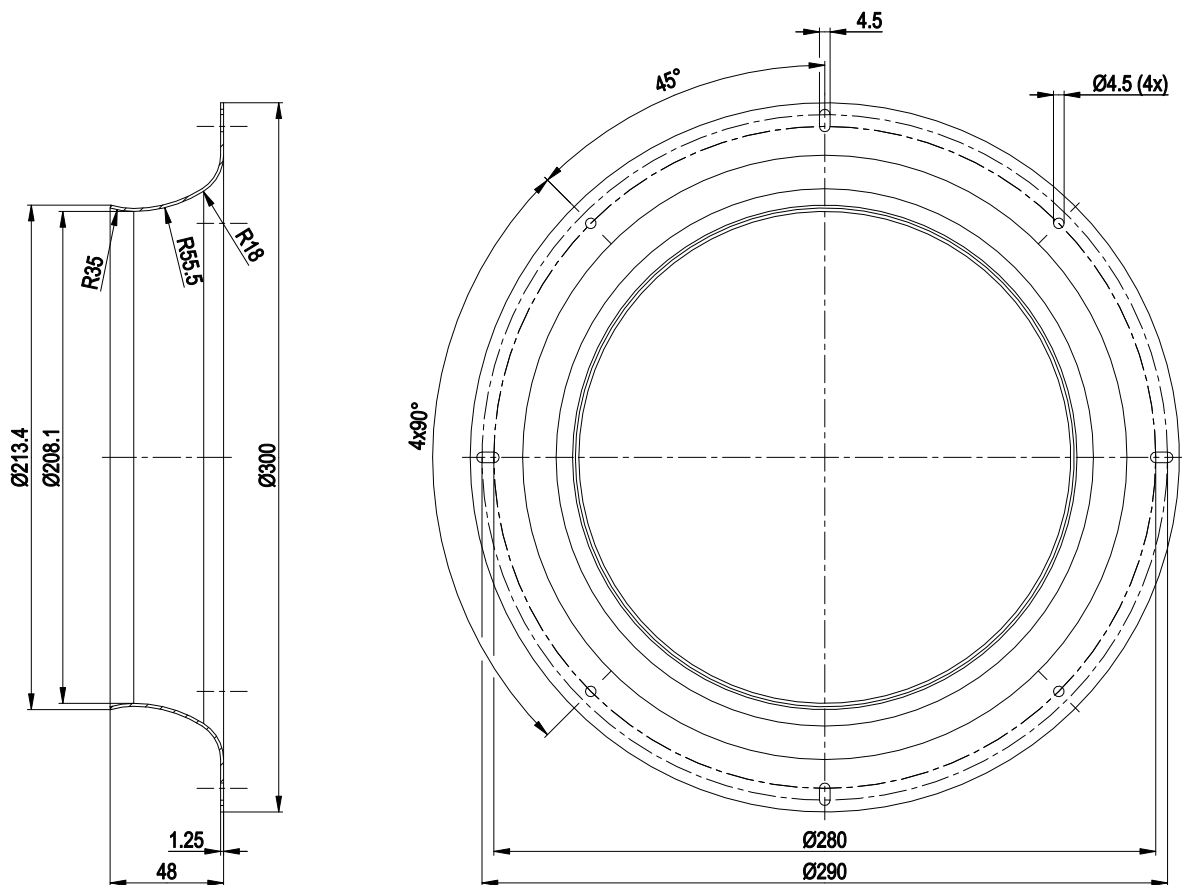
- | | |
|---|---|
| 1 | Accessory part: inlet ring 31050-2-4013 not included in scope of delivery |
| 2 | Max. clearance for screw 10 mm |
| 3 | Cable PVC AWG22, 3x crimped ferrules |
| 4 | Cable PVC AWG18, 5x crimped ferrules |

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Accessory part

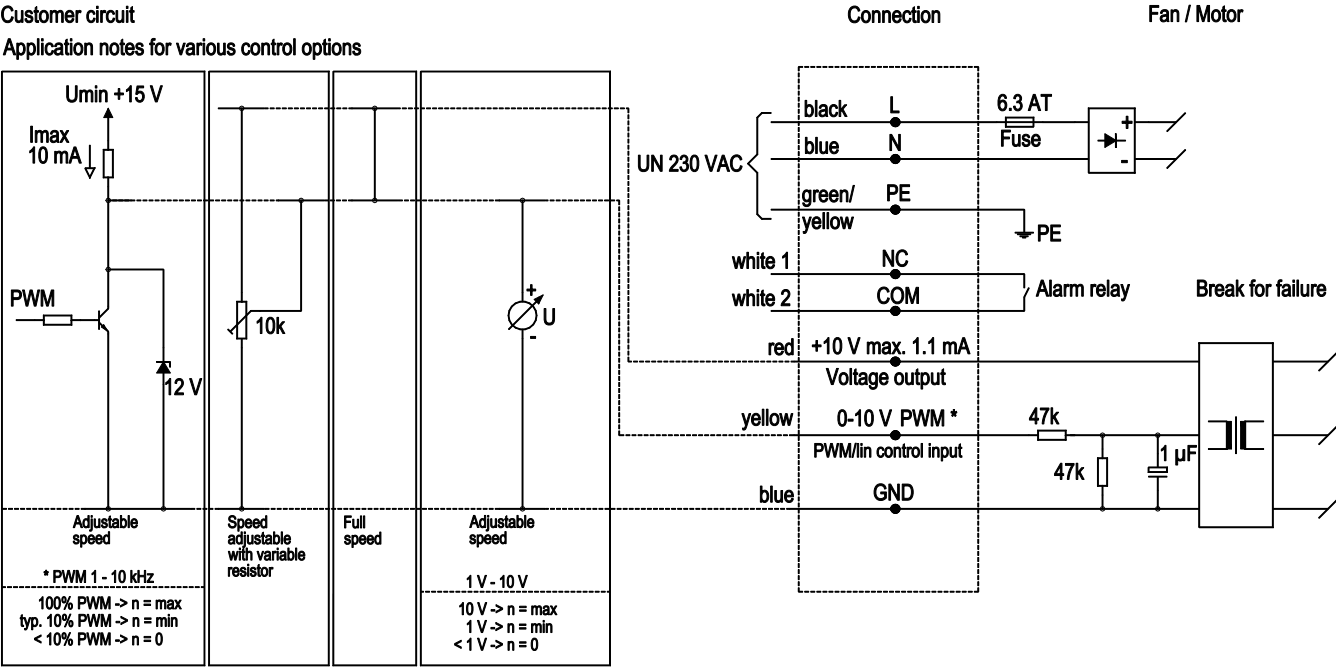


inlet ring 31050-2-4013 not included in scope of delivery

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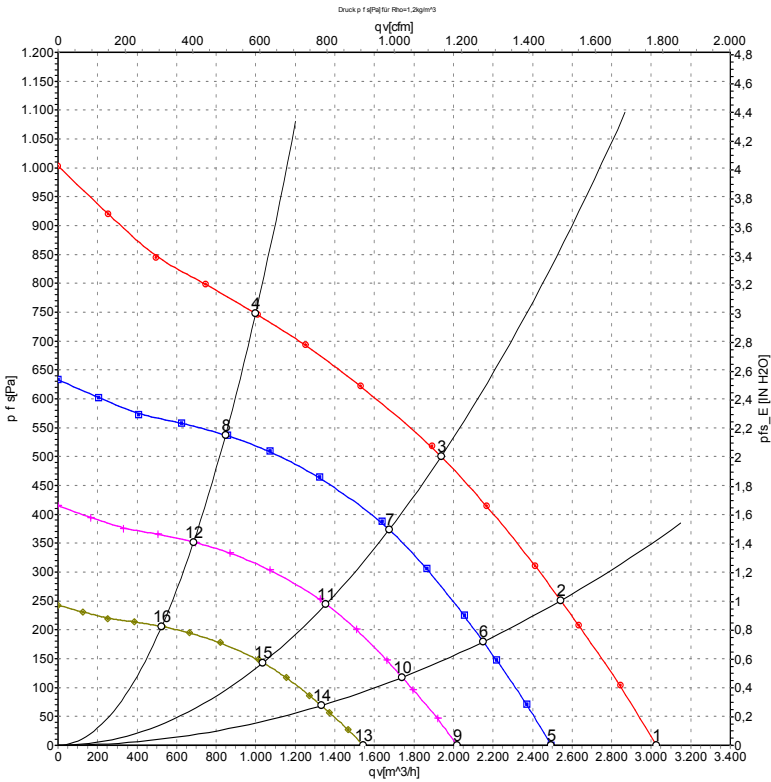
Connection diagram



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Curves: Air performance 50 Hz



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Measured values

	U	f	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	50	2550	357	2.17	3030	0	1780	0.00
2	230	50	2485	434	2.62	2545	250	1495	1.00
3	230	50	2430	485	2.90	1940	500	1140	2.01
4	230	50	2475	450	2.72	1000	750	590	3.01
5	230	50	2100	200	1.21	2495	0	1465	0.00
6	230	50	2100	262	1.59	2150	179	1265	0.72
7	230	50	2100	308	1.87	1675	375	985	1.51
8	230	50	2100	274	1.66	845	538	500	2.16
9	230	50	1700	106	0.64	2020	0	1190	0.00
10	230	50	1700	139	0.84	1740	118	1025	0.47
11	230	50	1700	164	0.99	1355	246	800	0.99
12	230	50	1700	146	0.88	685	352	405	1.41
13	230	50	1300	47	0.29	1545	0	910	0.00
14	230	50	1300	62	0.38	1330	69	785	0.28
15	230	50	1300	73	0.44	1035	144	610	0.58
16	230	50	1300	65	0.39	525	206	310	0.83

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

