

R3G310-AN43-71

EC centrifugal fan

backward curved, single inlet



Beijing Hengrui Mechanical and Electrical Equipment Co.,Ltd
Phone +86 10-62547612
zhangyu@bjhengrui.cn
en.bjhengrui.com

Nominal data

Type	R3G310-AN43-71	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	2435
Power input	W	470
Current draw	A	3.0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	45

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

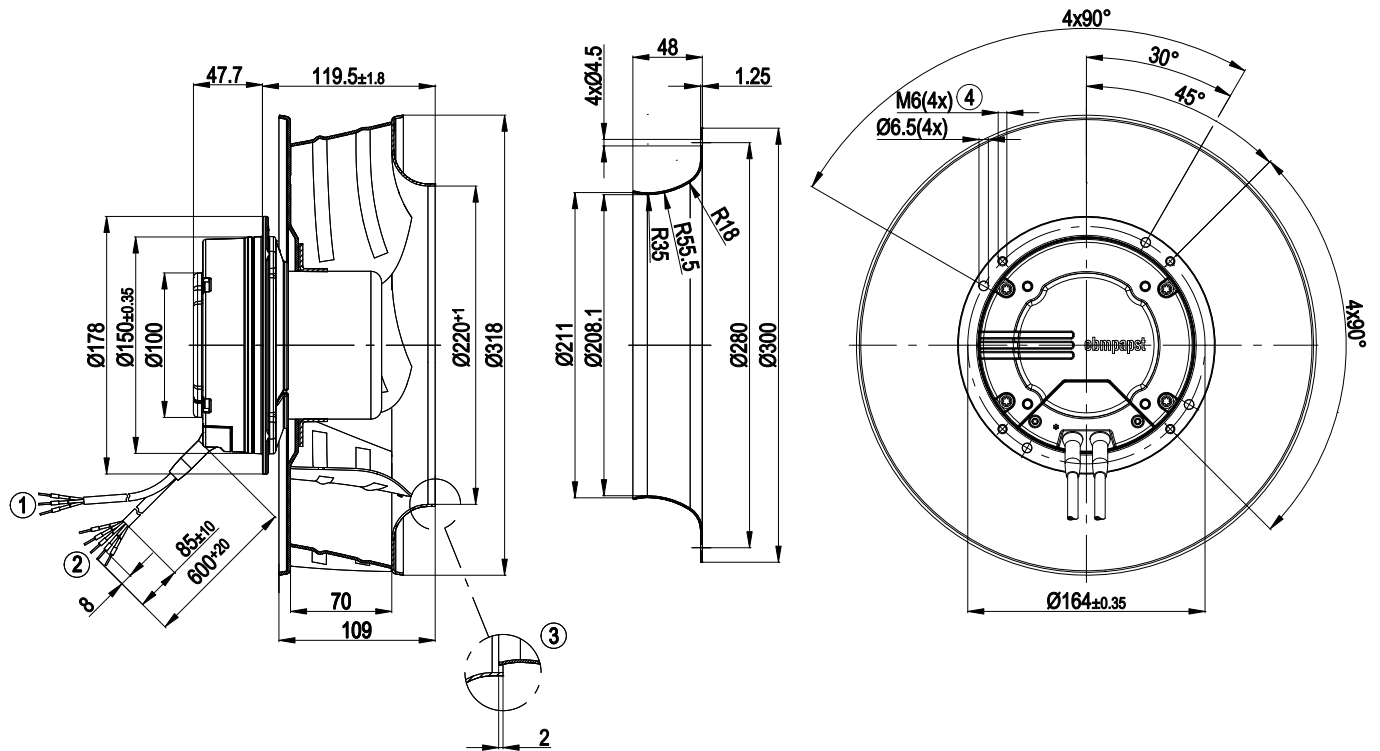
Technical features

Leakage current	<= 3.5 mA
General description	Integrated electronics
Size	310 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3
EMC interference immunity	Acc. to EN 61000-6-2
Humidity class	F3-1
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Motor bearing	Ball bearing
Mass	4.56 kg
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	EN 61800-5-1
Surface of rotor	Coated in black
Number of blades	6
Type of protection	IP 54
Protection class	I
Technical features	- Control input 0-10 VDC / PWM - Output 10 VDC, max. 1.1 mA - Alarm relay - Over-temperature protected electronics / motor
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CSA C22.2 Nr.77; UL 2111

EC centrifugal fan

backward curved, single inlet

Product drawing

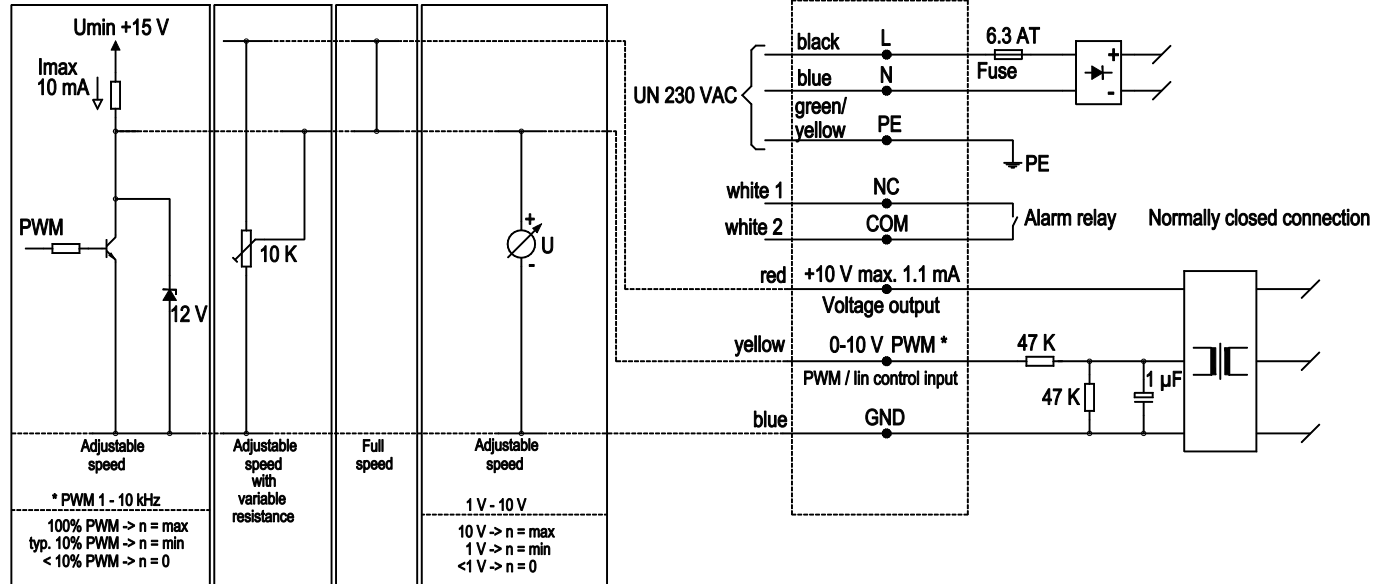


1	Connection line AWG22, 3 x crimped core-end sleeves
2	Connection line AWG18, 5 x crimped core-end sleeves
3	Accessory part: inlet nozzle 31050-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
4	Depth of screw 8 - 10 mm

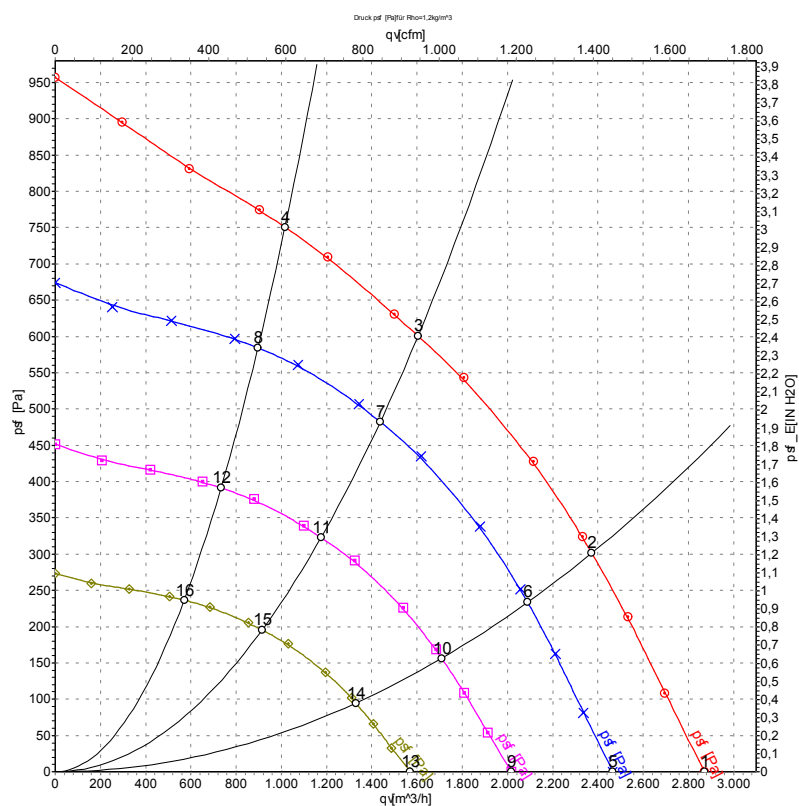
Connection screen

Customer circuit

Notes on various control possibilities and their applications



Charts: Air flow 50 Hz



Measurement: LU-112311

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: 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 situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P _e	I	qv	P _{st}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	2560	356	2.31	2870	0
2	230	50	2500	432	2.79	2375	300
3	230	50	2435	470	3.00	1605	600
4	230	50	2495	437	2.84	1015	750
5	230	50	2200	226	1.46	2465	0
6	230	50	2200	295	1.91	2090	234
7	230	50	2200	336	2.18	1440	482
8	230	50	2200	301	1.95	895	584
9	230	50	1800	124	0.80	2020	0
10	230	50	1800	162	1.04	1710	157
11	230	50	1800	184	1.19	1175	323
12	230	50	1800	165	1.07	735	391
13	230	50	1400	58	0.38	1570	0
14	230	50	1400	76	0.49	1330	95
15	230	50	1400	87	0.56	915	195
16	230	50	1400	77	0.50	570	237