EC diagonal compact fan

W1G180-AB47-08 ebmpapst Datasheet
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Nominal data

Type	**W1G180-AB47-08**	
Motor	**M1G074-BF**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 72
Type of data definition		fa
Speed	min^{-1}	4600
Power input	W	97
Current draw	A	2.27
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	1.8 kg
Size	180 mm
Surface of rotor	Galvanised
Material of impeller	Plastic PA66, fibreglass-reinforced
Material of wall ring	Die-cast aluminium, coated in black
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"B"
Humidity class	F0
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
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limit - Soft start
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Product conforming to standard	EN 60950-1
Approval	CCC; CSA C22.2 Nr.113; UL 507

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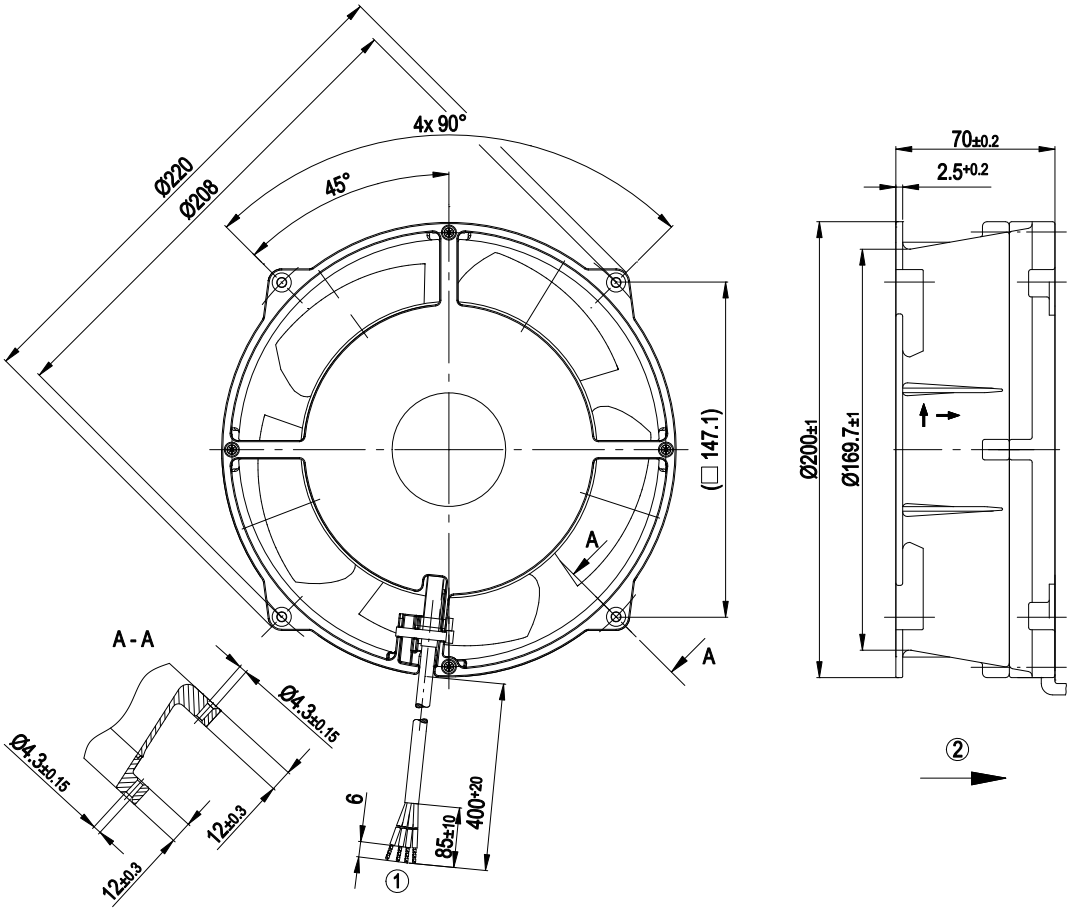
Product drawing



1	Connecting cable AWG 20, 4x brass lead tips crimped
2	Direction of air flow "V"

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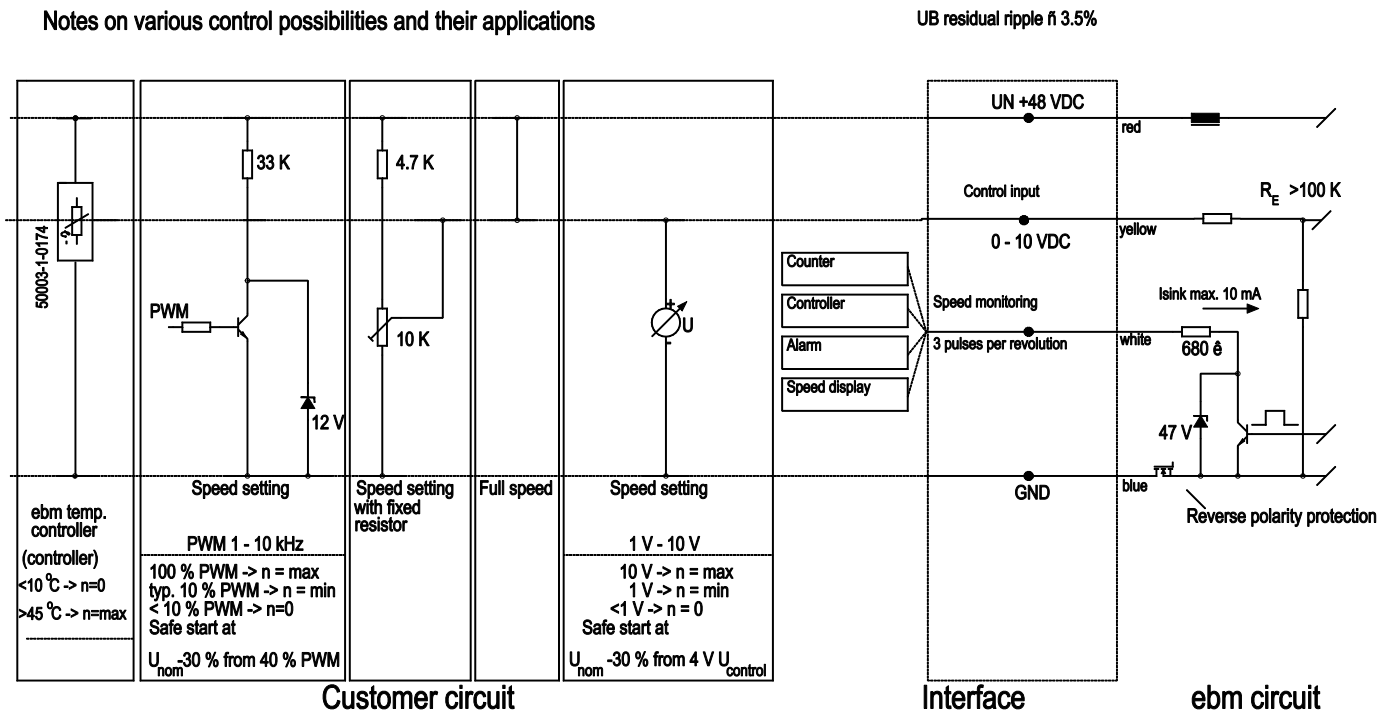
Connection screen



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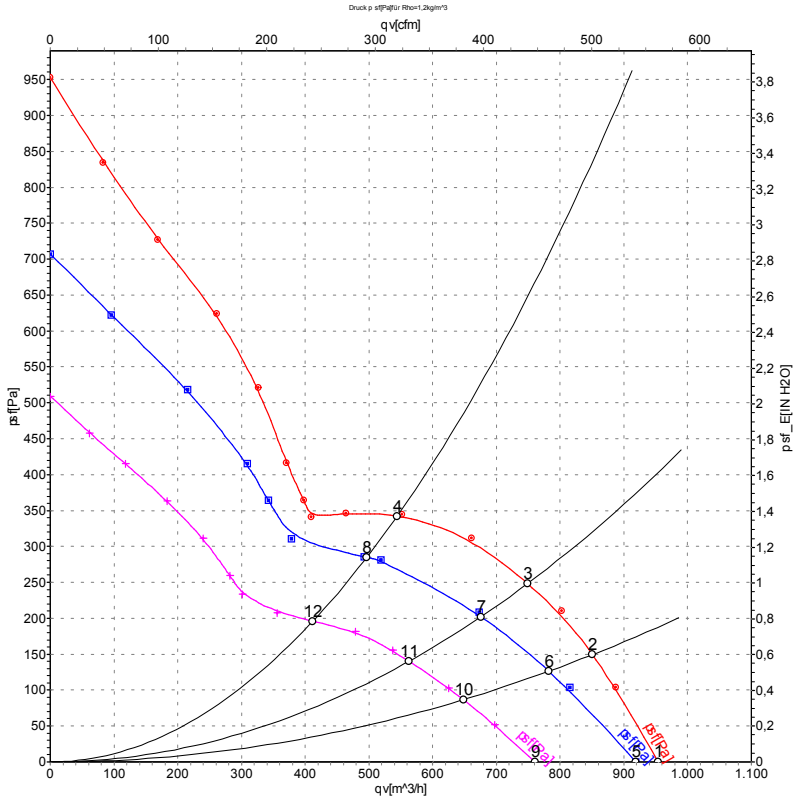
Charts: Air flow



Measurement: LU-44620
Measurement: LU-44618
Measurement: LU-44617

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.

Measured values

	U	n	P_e	I	qv	p_{sf}
	V	min^{-1}	W	A	m^3/h	Pa
1	72	4810	109	2.21	955	0
2	72	4820	134	2.62	850	150
3	72	4815	148	2.83	750	250
4	72	4800	141	2.75	545	345
5	48	4645	97	2.27	920	0
6	48	4460	104	2.45	780	128
7	48	4345	109	2.56	675	206
8	48	4390	106	2.49	495	284
9	36	3845	57	1.80	760	0
10	36	3725	63	1.96	650	87
11	36	3655	65	2.05	565	140
12	36	3700	64	1.99	410	196