

W1G180-AB57-30

EC axial fan

single inlet



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Nominal data

Type	W1G180-AB57-30	
Motor	M1G074-BF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	14 .. 28
Type of data definition		fa
Speed	min ⁻¹	3170
Power input	W	35
Current draw	A	1.6
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



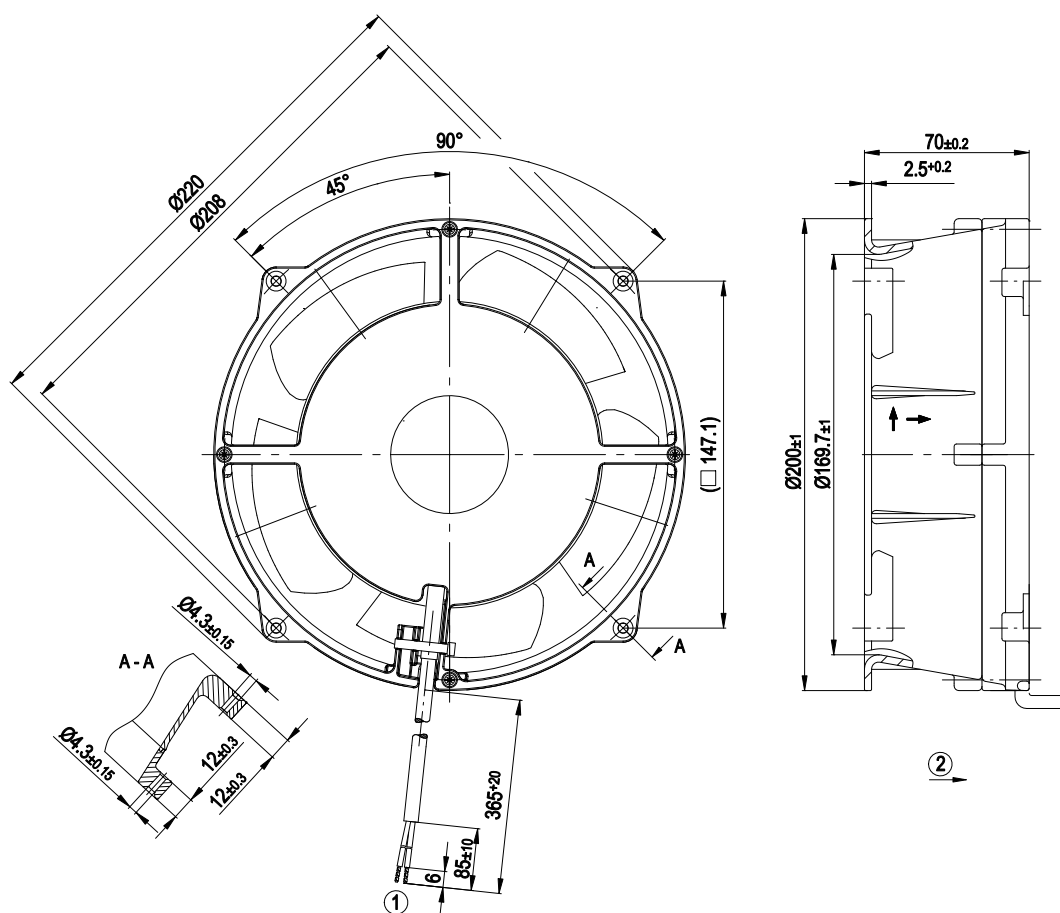
Technical features

Mass	1.7 kg
Size	180 mm
Surface of rotor	Galvanised
Material of impeller	Fibreglass-reinforced plastic (PA)
Material of wall ring	Die-cast aluminium, coated in black
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	- Motor current limit - Soft start
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Product conforming to standard	EN 60950-1
Approval	UL 1004-1; CSA C22.2 Nr.77

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Product drawing



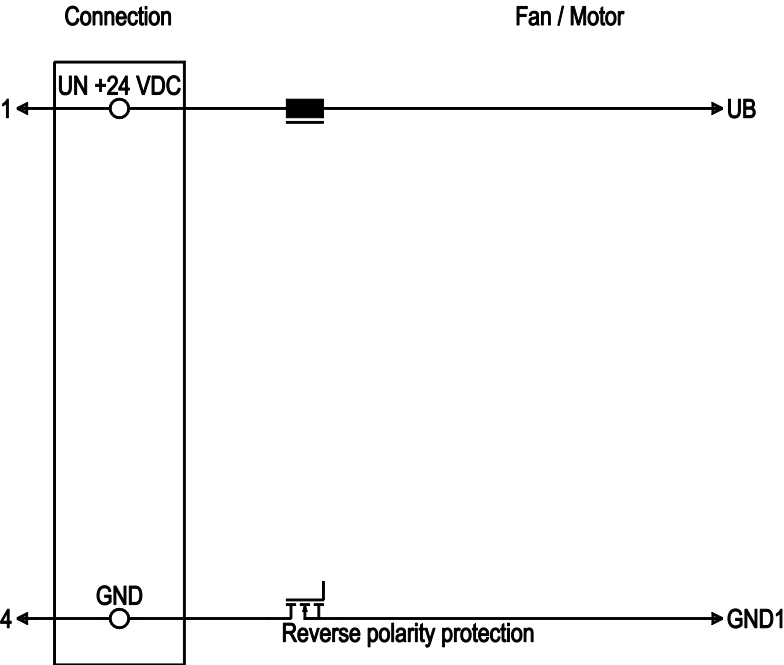
- | | |
|---|---|
| 1 | Connection line PVC AWG20, 2x lead tips crimped |
| 2 | Direction of air flow "V" |

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Connection screen

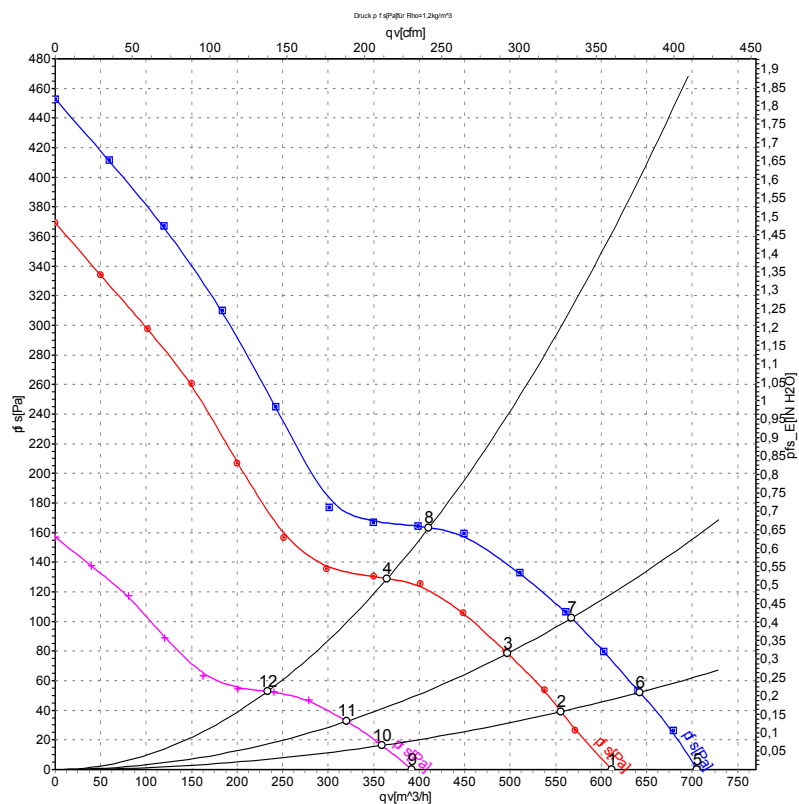
Customer circuit



No.	Conn.	Designation	Colour	Function / assignment
1	1	UN +24 VDC	red	Power supply 24 VDC, see type plate for voltage range, maximum ripple $\pm 3.5\%$
1	4	GND	blue	Reference earth



Charts: Air flow



Measurement: LU-106403
Measurement: LU-106408
Measurement: LU-106410

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	n	P _{ed}	I	qv	p _{fs}
	V	min ⁻¹	W	A	m ³ /h	Pa
1	24	3170	35	1.60	610	0
2	24	3120	37	1.72	555	40
3	24	3080	39	1.81	495	80
4	24	3090	39	1.80	365	130
5	28	3600	48	1.89	705	0
6	28	3530	51	2.03	640	52
7	28	3465	54	2.15	565	103
8	28	3475	54	2.13	410	163
9	14	2050	11	0.91	390	0
10	14	2025	12	0.95	360	17
11	14	2005	12	1.01	320	33
12	14	2000	12	1.01	235	53

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