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Nominal data

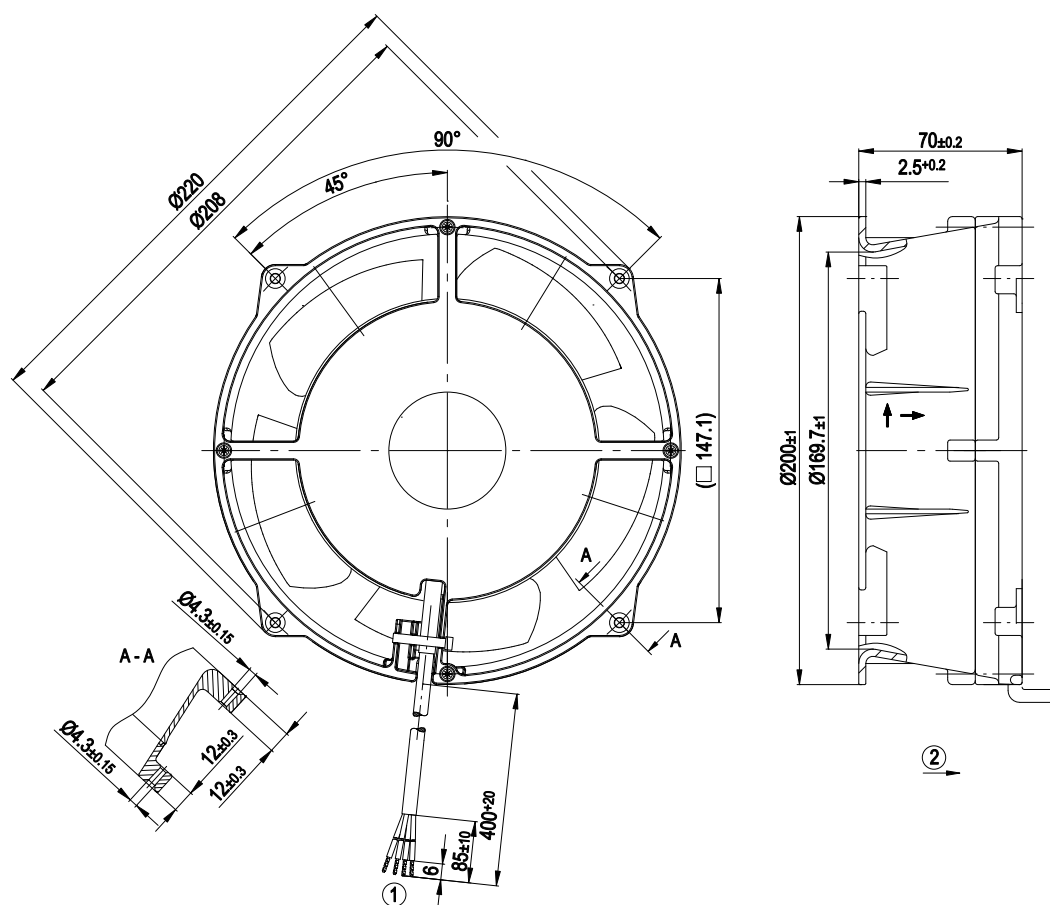
Type	W1G180-AB47-01	
Motor	M1G074-BF	
Nominal voltage	[VDC]	48
Nominal voltage range	[VDC]	36 .. 57
Frequency	[Hz]	-
Type of data definition		rfa
Speed	[min ⁻¹]	4600
Power input	[W]	100
Current draw	[A]	2.30
Max. back pressure	[Pa]	380
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	+60

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

Technical features

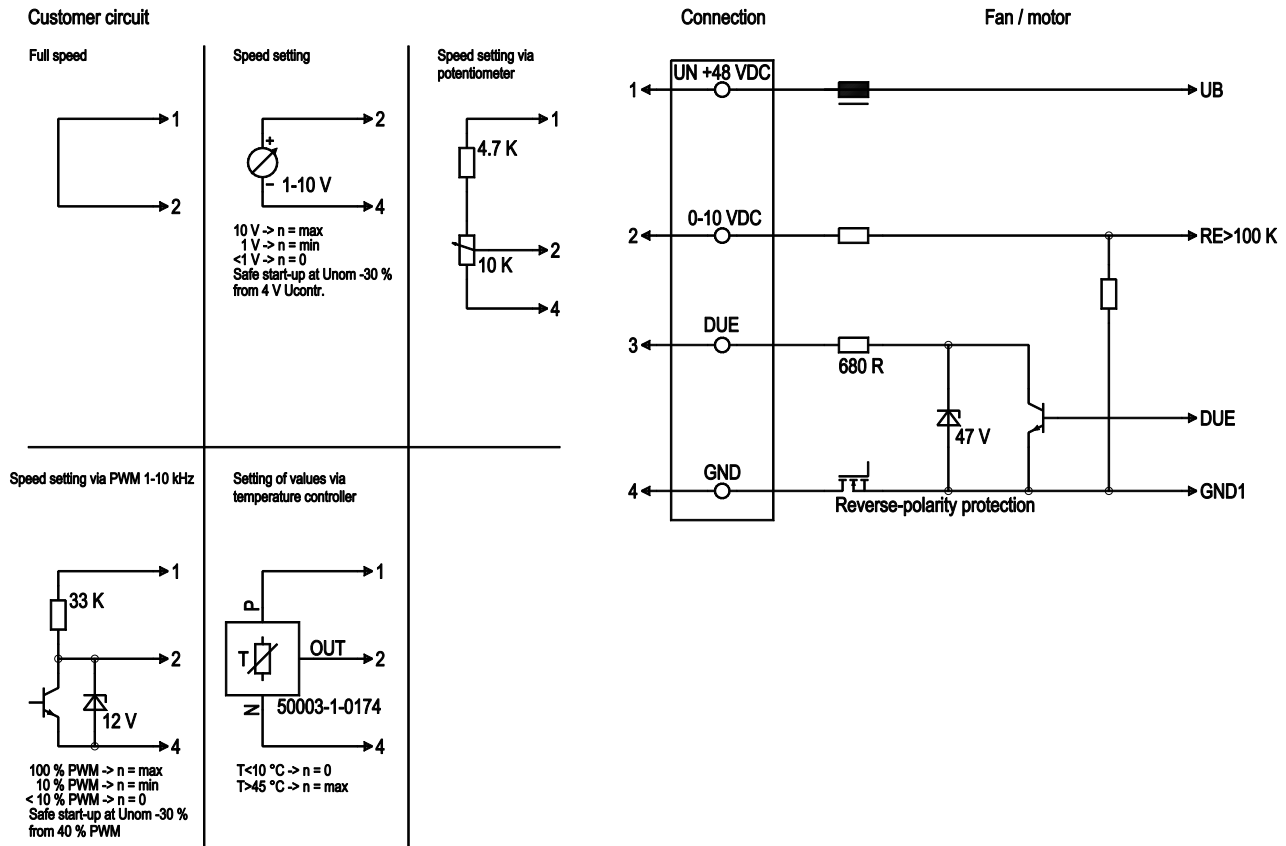
Size	180 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Any
EMC interference emission	Acc. to EN 55022 (Class B)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Humidity class	F0
Direction of air flow	"V"
Insulation class	"B"
Cable exit	Lateral
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	1.8 kg
Material of impeller	Plastic PA66, fibreglass-reinforced
Material of wall ring	Die-cast aluminium, coated in black
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Surface of rotor	Galvanised
Number of blades	5
Type of protection	IP 20
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limit - Soft start
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CCC; CSA C22.2 Nr.113; UL 507

Product drawing



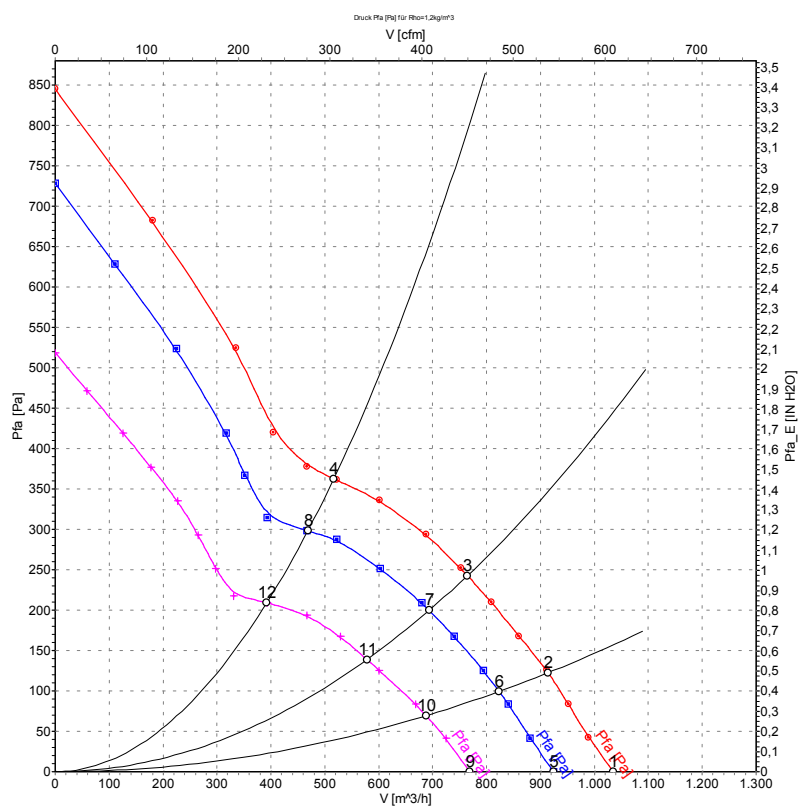
- | | |
|---|---|
| 1 | Connecting cable AWG 20, 4x brass lead tips crimped |
| 2 | Direction of air flow "V" |

Connection screen



Line	No.	Signal	Colour	Function / assignment
1	1	Un +48 VDC	red	Power supply 48 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	DUE	white	Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA
1	4	GND	blue	Reference mass

Charts: Air flow



Measured values

	U	n	P_1	I	$\hat{V}$	p_{fa}
	[V]	[min ⁻¹]	[W]	[A]	[m³/h]	[Pa]
1	57	5170	134	2.65	1035	0
2	57	4990	141	2.82	915	124
3	57	4815	146	2.95	765	243
4	57	4910	144	2.88	515	363
5	48	4600	100	2.30	925	0
6	48	4510	106	2.46	825	100
7	48	4380	112	2.61	695	200
8	48	4475	109	2.55	470	300
9	36	3900	60	1.89	770	0
10	36	3790	64	1.99	690	70
11	36	3690	67	2.10	580	139
12	36	3750	65	2.04	390	210