

A1G300-AC19-52 ebmpapst Datasheet

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## Nominal data

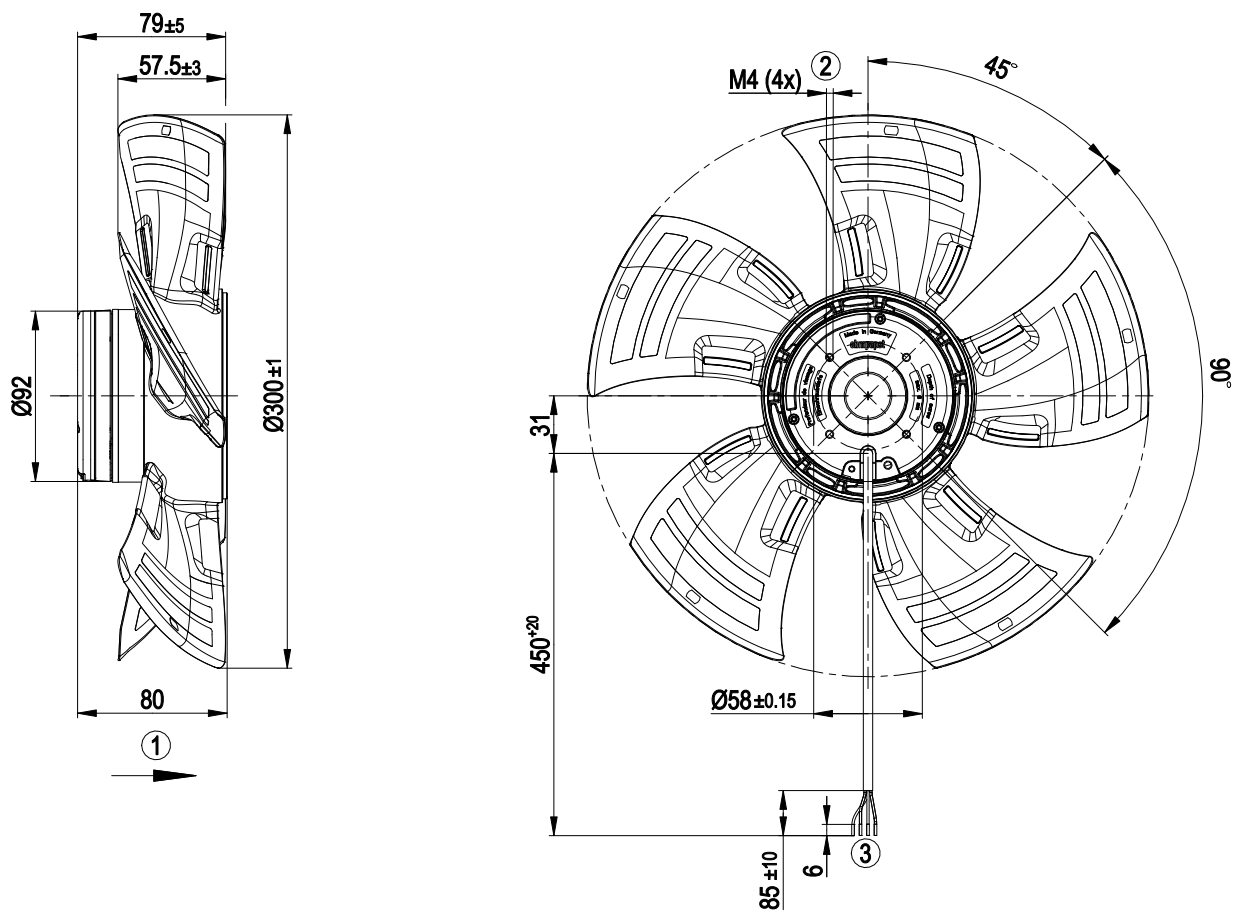
Type	A1G300-AC19-52	
Motor	M1G074-CF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min <sup>-1</sup>	1830
Power consumption	W	80
Current draw	A	3.8
Max. back pressure	Pa	100
Max. back pressure	inH <sub>2</sub> O	0.4
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

## Technical description

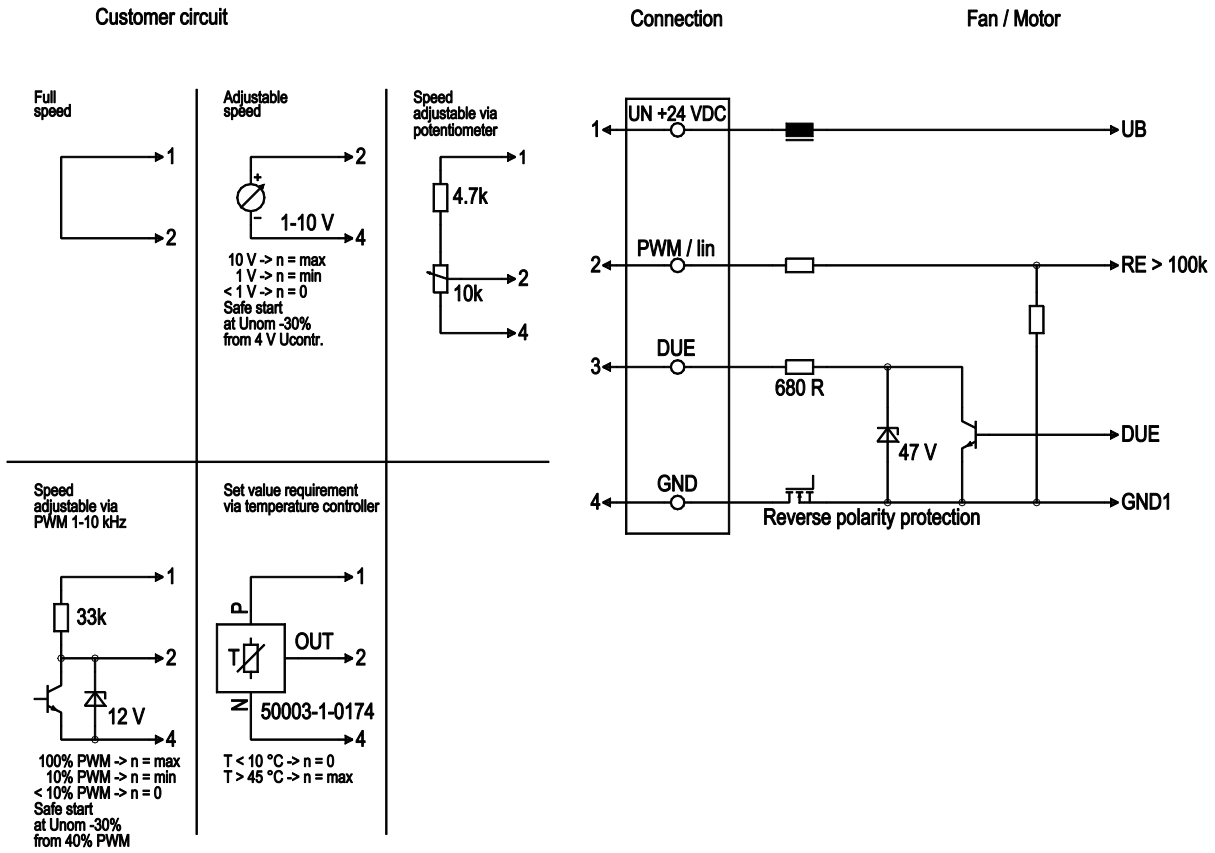
<b>Weight</b>	1.8 kg
<b>Fan size</b>	300 mm
<b>Rotor surface</b>	Painted black
<b>Blade material</b>	Press-fitted sheet steel blank, sprayed with PP plastic
<b>Number of blades</b>	5
<b>Airflow direction</b>	"A"
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP42
<b>Insulation class</b>	"B"
<b>Moisture (F) / Environmental (H) protection class</b>	F0
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+ 80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	- 40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Tach output</li> <li>- Motor current limitation</li> <li>- Soft start</li> <li>- Control input 0-10 VDC / PWM</li> </ul>
<b>EMC immunity to interference</b>	According to EN 61000-6-2 (industrial environment)
<b>EMC interference emission</b>	According to EN 55022 (Class B)
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>With cable</b>	Variable
<b>Conformity with standards</b>	EN 60950-1
<b>Approval</b>	UL 1004-1; EAC; CSA C22.2 No. 77

## Product drawing



1	Direction of air flow "A"
2	Max. clearance for screw 6 mm
3	Cable PVC AWG20, 4x crimped splices

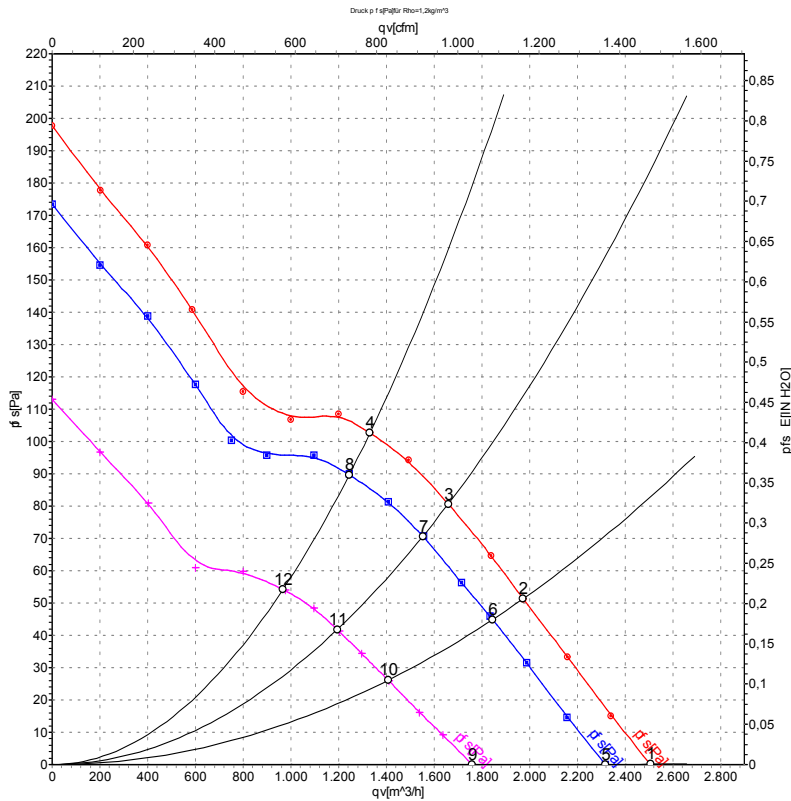
## Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	Un +24V	red	Power supply 24 VDC, maximum ripple 3.5%
1	2	PWM / lin	yellow	PWM / lin., control input, 0-10 V
1	3	Tach	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground



## Curves: Air performance



Measurement: LU-114664-1  
 Measurement: LU-114661-1  
 Measurement: LU-114665-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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.

## Measured values

	U	n	P <sub>ed</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	qv	p <sub>fs</sub>	qv	p <sub>fs</sub>
	V	min <sup>-1</sup>	W	A	dB(A)	dB(A)	m <sup>3</sup> /h	Pa	CFM	inH <sub>2</sub> O
1	28	1965	102	4.11	61	69	2505	0	1475	0.00
2	28	1855	105	4.31	60	67	1975	51	1160	0.20
3	28	1805	107	4.42	59	67	1660	81	975	0.33
4	28	1745	109	4.56	63	71	1330	103	785	0.41
5	24	1810	80	3.80	60	67	2320	0	1365	0.00
6	24	1730	86	4.03	58	67	1845	45	1085	0.18
7	24	1690	87	4.10	57	66	1555	70	915	0.28
8	24	1635	89	4.21	62	70	1245	90	735	0.36
9	16	1380	37	2.63	52	60	1760	0	1035	0.00
10	16	1330	40	2.82	51	58	1410	26	830	0.10
11	16	1305	41	2.92	51	59	1195	42	705	0.17
12	16	1280	43	3.04	56	64	965	54	570	0.22

U = Power supply · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side · qv = Air flow  
 p<sub>fs</sub> = Pressure increase

