

A1G300-AE19-52

EC axial fan

sickled blades (S series)



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Nominal data

Type	A1G300-AE19-52	
Motor	M1G074-CF	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	16 .. 28
Type of data definition		rfa
Speed	[min ⁻¹]	1800
Power input	[W]	90
Current draw	[A]	4.0
Max. back pressure	[Pa]	105
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

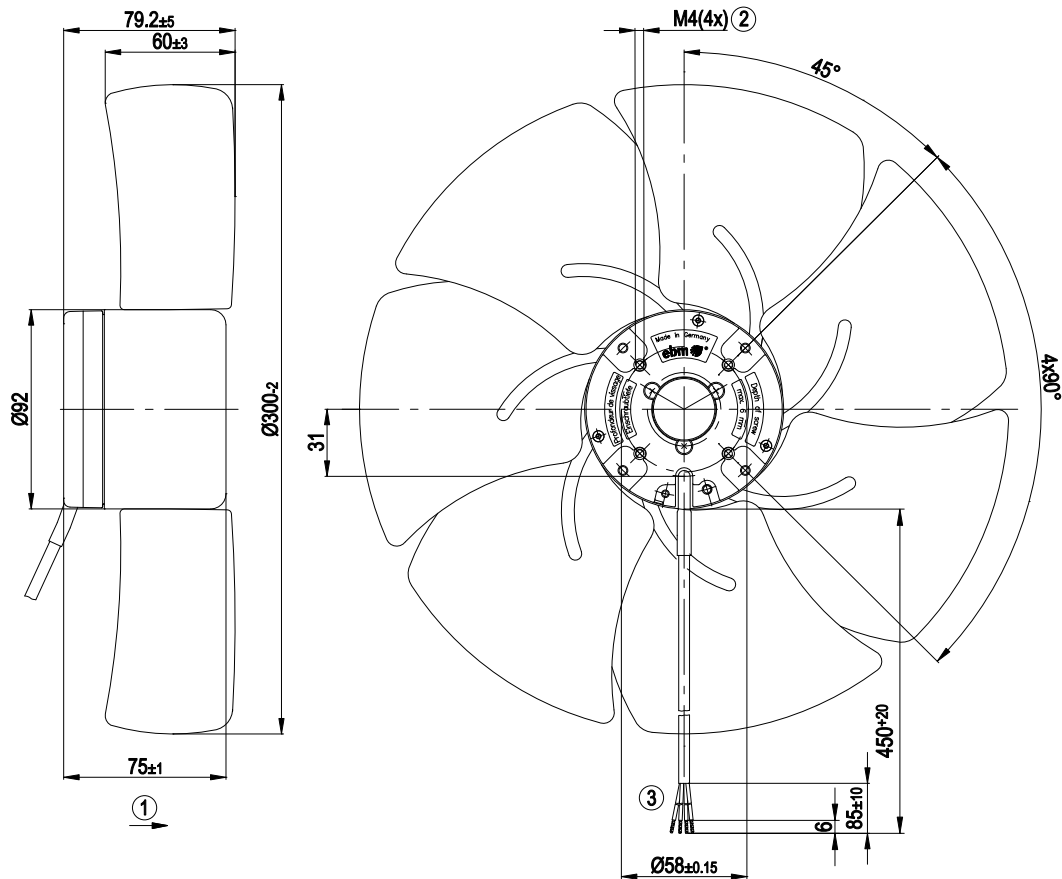
Technical features

Size	300 mm
Operation mode	S1
Direction of rotation	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	"A"
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	2.3 kg
Material of blades	Sheet steel, coated in black
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Surface of rotor	Coated in black
Number of blades	7
Type of protection	IP 42
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM
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 1004-1

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Product drawing

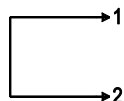


- | | |
|---|--|
| 1 | Direction of air flow "A" |
| 2 | Depth of screw max. 6 mm |
| 3 | Connection line AWG20; 4 x brass lead tips crimped |

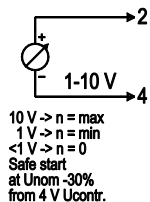
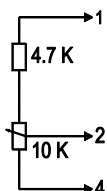
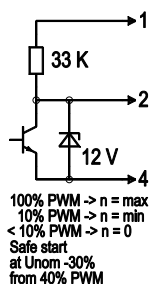
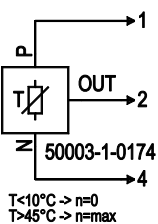
Connection screen

Customer circuit

Full speed

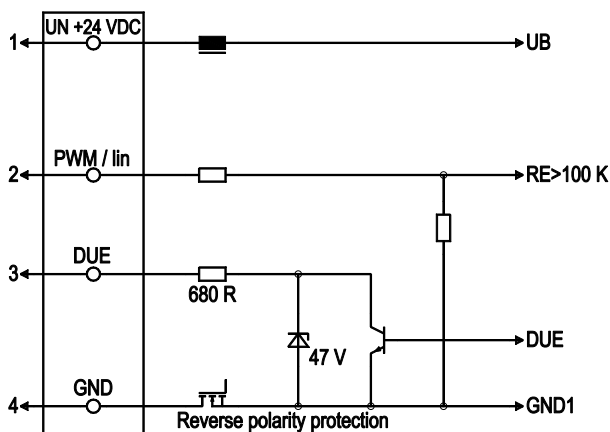


Speed setting

Speed setting
via potentiometerSpeed setting
via PWM 1-10 kHzSet value via
temperature controller

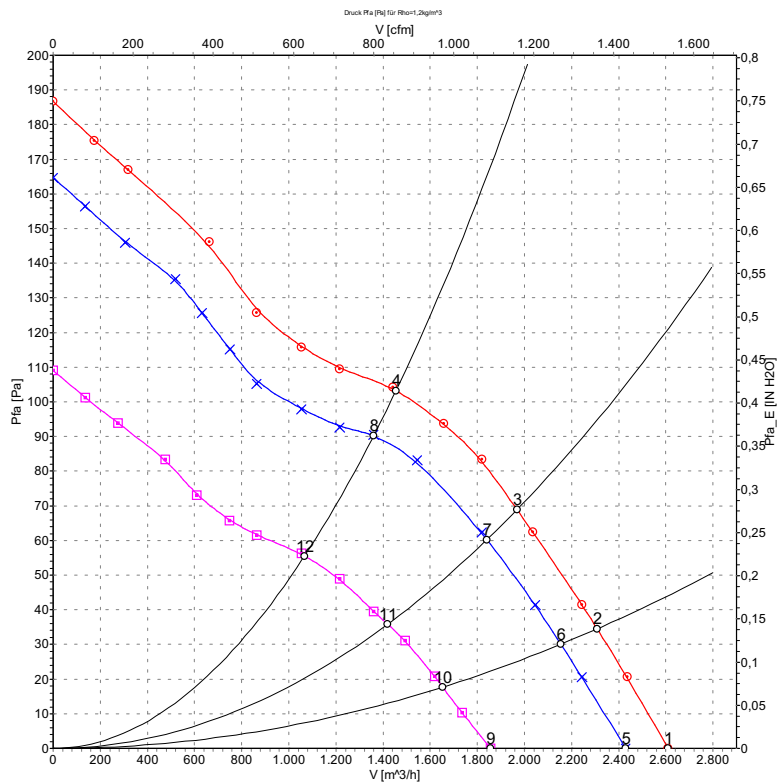
Connection

Fan / motor



Line	No.	Signal	Colour	Function / assignment
1	1	Un +24V	red	Power supply 24 VDC, residual ripple 3.5 %
1	2	PWM / lin	yellow	PWM / lin, control input, 0-10 V
1	3	DUE	white	Speed monitoring output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference mass

Charts: Air flow



Measurement: LU-54226
Measurement: LU-54225
Measurement: LU-54227

Measured values

	U	n	P ₁	I	$\dot{V}$	P _{fa}
	[V]	[min ⁻¹]	[W]	[A]	[m ³ /h]	[Pa]
1	28	1920	109	4.35	2610	0
2	28	1835	111	4.49	2310	34
3	28	1765	114	4.64	1970	69
4	28	1655	119	4.92	1455	104
5	24	1800	90	4.00	2430	0
6	24	1715	91	4.20	2155	30
7	24	1650	93	4.34	1840	60
8	24	1550	97	4.53	1360	90
9	16	1360	40	2.80	1855	0
10	16	1320	42	2.96	1655	18
11	16	1285	44	3.09	1420	36
12	16	1220	48	3.35	1065	56