EC axial fan

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Nominal data

Type	**A1G300-AH15-11**
Motor	**M1G074-CF**

Nominal voltage	VDC	27
Nominal voltage range	VDC	16 .. 32
Method of obtaining data		fa
Speed (rpm)	min^{-1}	1600
Power consumption	W	62
Current draw	A	2.5
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

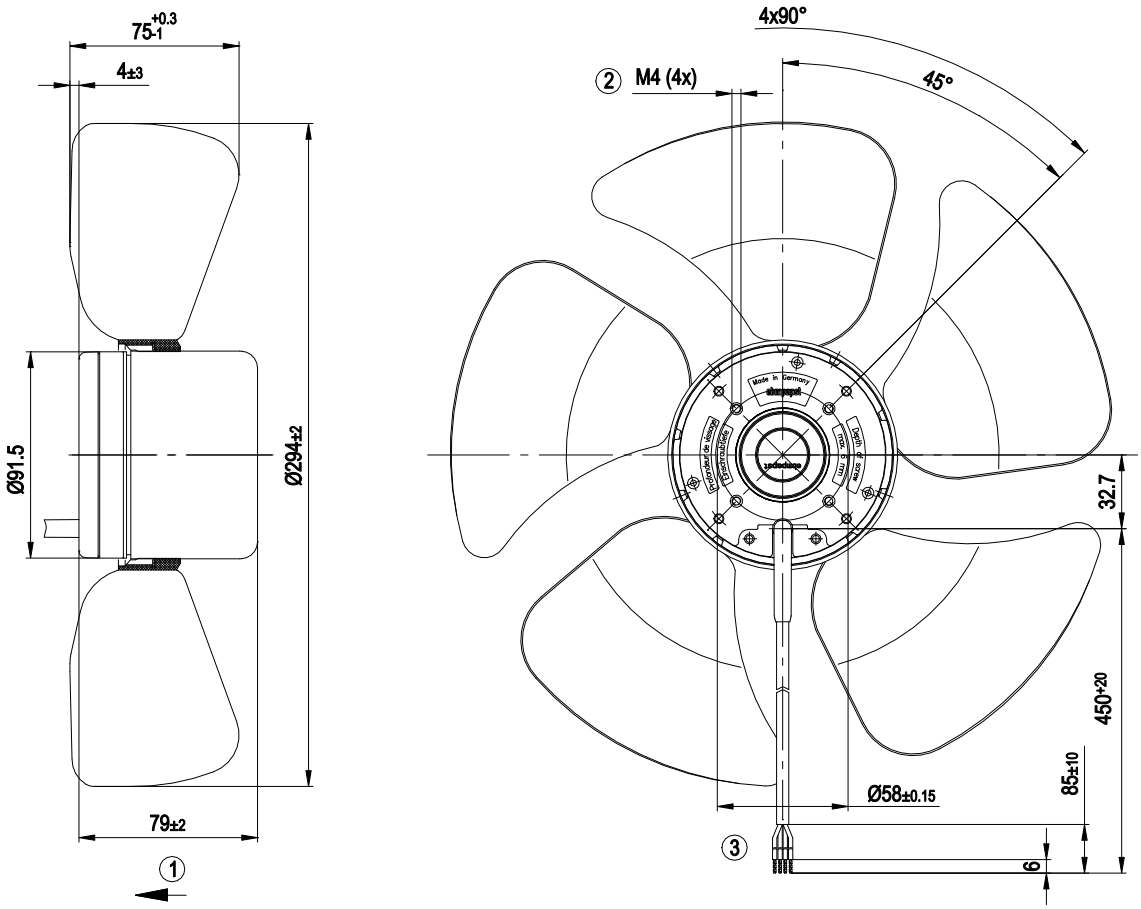
Technical description

Weight	1.9 kg
Fan size	300 mm
Rotor surface	Painted black
Impeller material	PA plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F4-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing with low-temperature lubricant
Technical features	- Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1
Approval	CSA C22.2 No. 77; UL 1004-1

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Product drawing

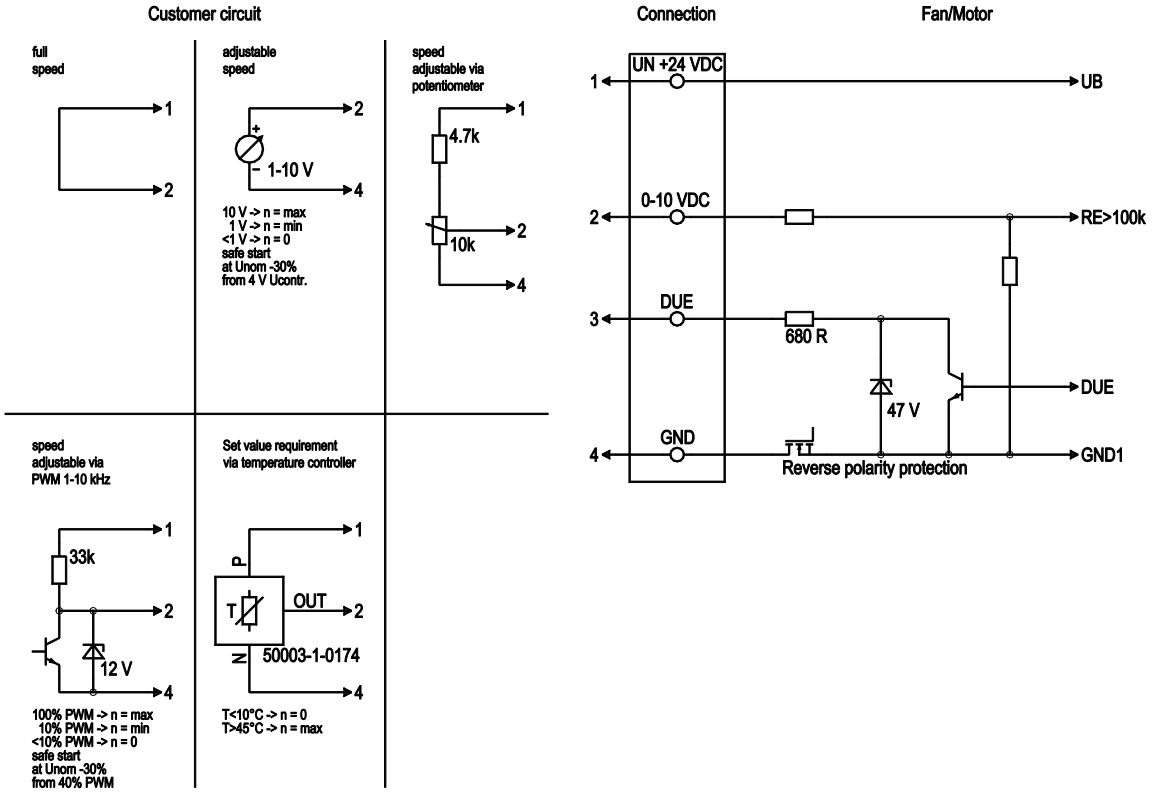


1	Direction of air flow "V"
2	Max. clearance for screw 6 mm
3	Cable PVC AWG20, 4x crimped splices

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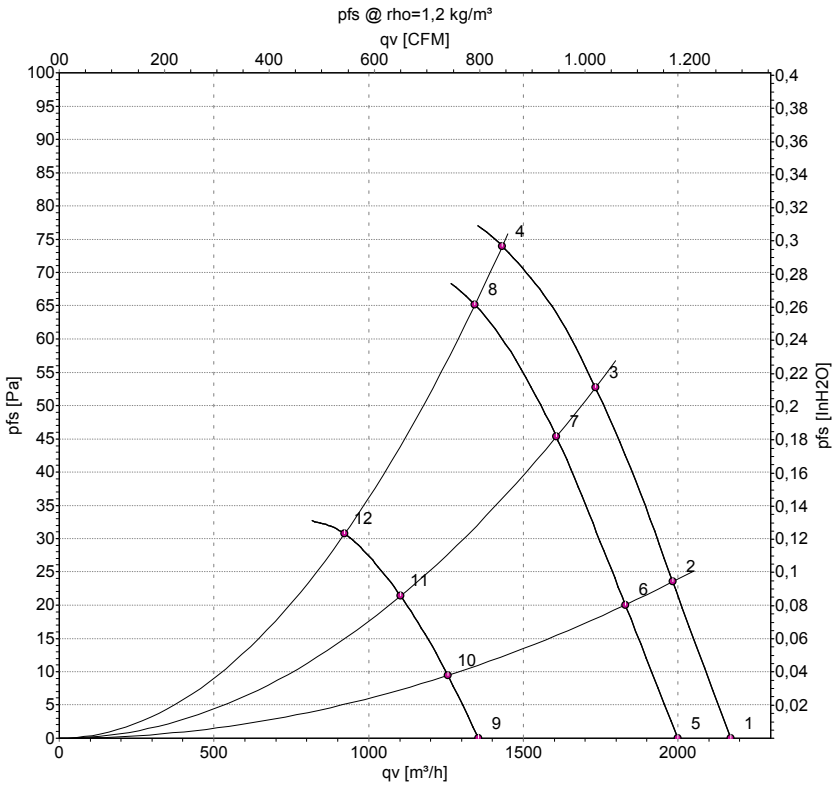
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	UN +24 VDC	red	Power supply 24 VDC, see nameplate for voltage range, maximum ripple 3.5%
1	2	0-10 VDC	yellow	Control input Re > 100 k
1	3	DUE	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

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Curves: Air performance



Measurement: LU-67593-1
Measurement: LU-60327-1
Measurement: LU-67594-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. 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_{ed}	I	qv	p_{fs}	qv	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	32	1825	83	2.87	2170	0	1280	0.00
2	32	1790	85	2.96	1985	23	1165	0.09
3	32	1745	87	3.02	1735	53	1020	0.21
4	32	1675	89	3.11	1430	74	845	0.30
5	27	1600	62	2.50	2000	0	1175	0.00
6	27	1690	67	2.71	1830	20	1075	0.08
7	27	1660	69	2.79	1605	45	945	0.18
8	27	1615	72	2.92	1345	65	790	0.26
9	16	1135	23	1.71	1355	0	800	0.00
10	16	1120	24	1.75	1255	10	740	0.04
11	16	1100	25	1.78	1105	22	650	0.09
12	16	1070	26	1.84	925	31	545	0.12

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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