EC axial compact fan

straight blades (A series)

W1G115-AG03-07 ebmpapst Datasheet
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Amtsgericht (court of registration) Stuttgart · HRA 590344

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Nominal data

Type	**W1G115-AG03-07**	
Motor	**M1G045-AI**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3950
Power consumption	W	10
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

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Technical description

Weight	0.5 kg
Fan size	115 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum, painted black
Number of blades	7
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP22
Insulation class	"B"
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
Technical features	- Tach output - Motor current limitation - Soft start
Electrical hookup	With plug
Motor protection	Reverse polarity and locked-rotor protection
With cable	Lateral
Conformity with standards	EN 60950-1

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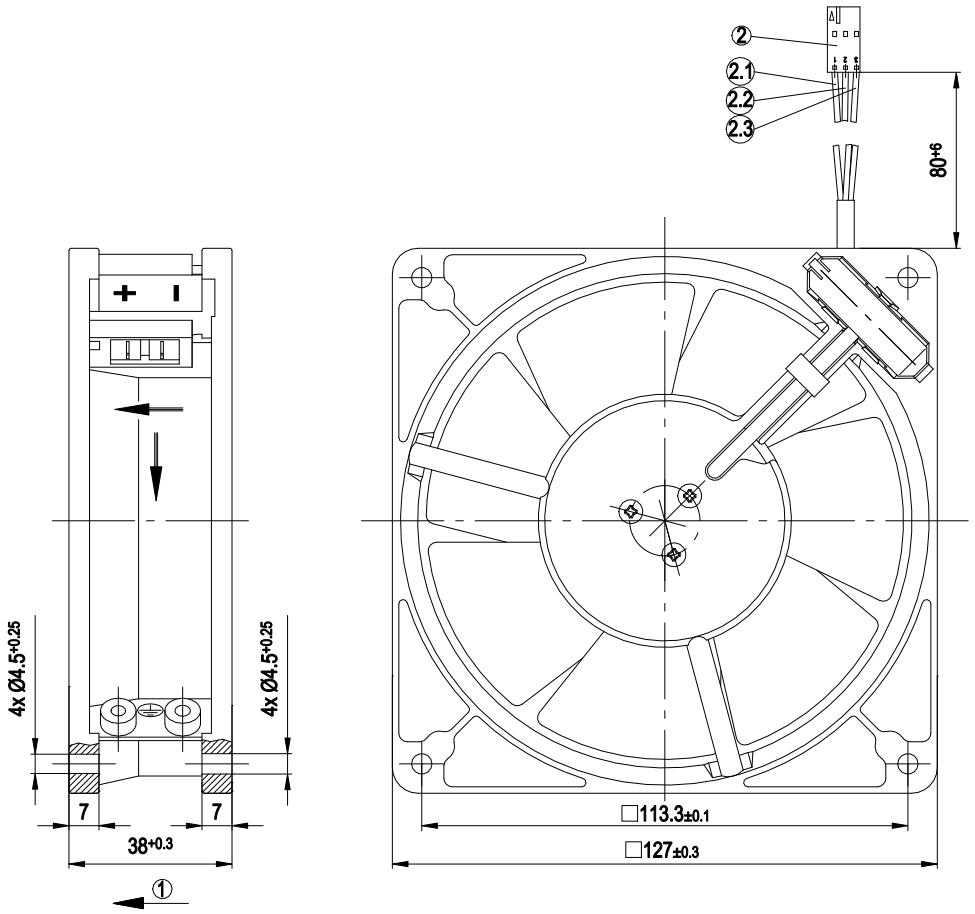
Product drawing



1	Direction of air flow "V"
2	Connector housing Molex no. 50-57-9403 with 3x socket Molex no. 16-02-0087
2.1	red (+)
2.2	blue (-)
2.3	white (S)

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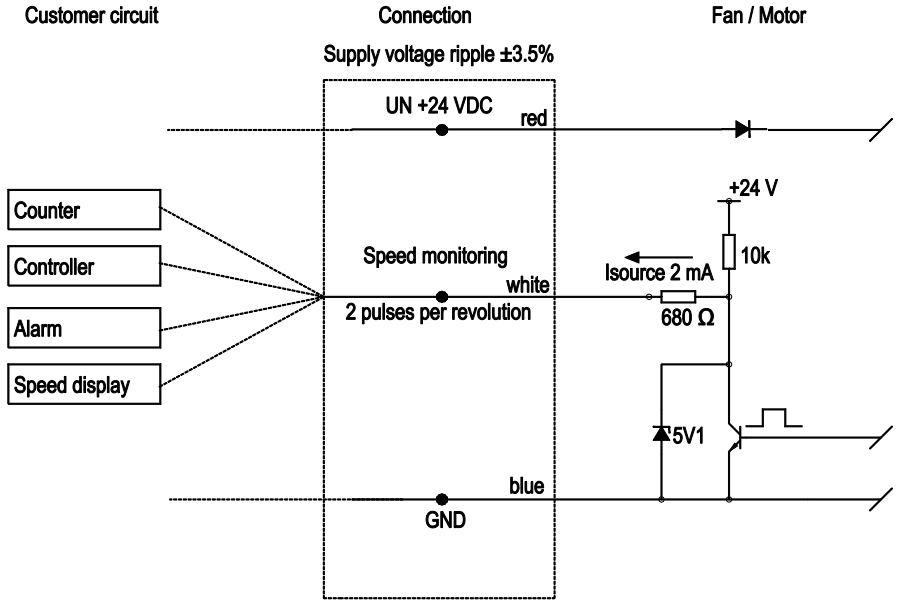
Connection diagram



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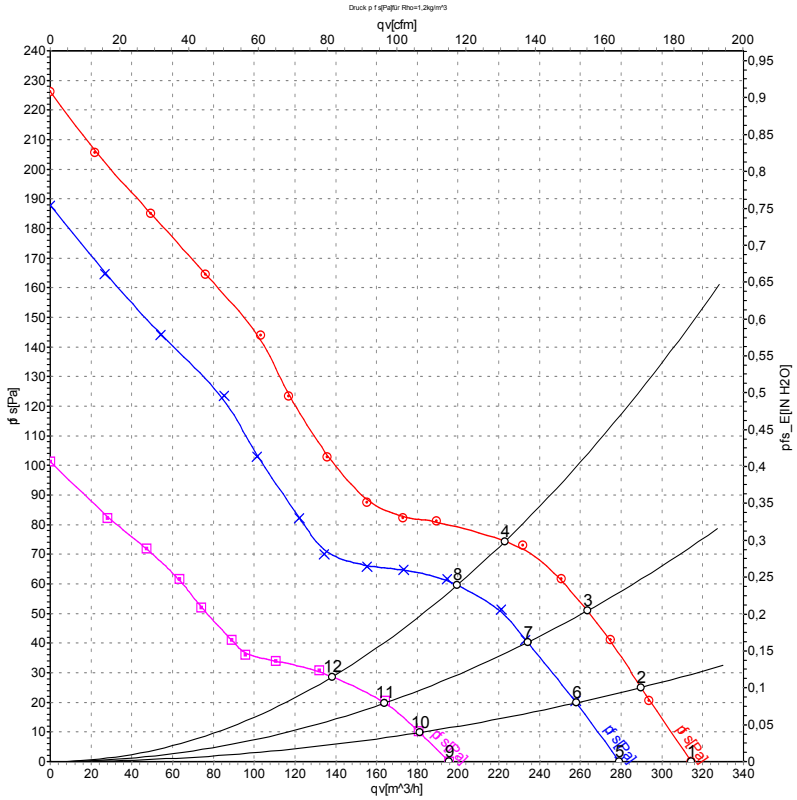
Curves: Air performance



Measurement: LU-48844-1
Measurement: LU-48843-1
Measurement: LU-48845-1

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	28	4705	17	0.67	315	0	185	0.00
2	28	4600	18	0.70	290	25	170	0.10
3	28	4505	18	0.73	265	51	155	0.20
4	28	4415	19	0.76	225	75	130	0.30
5	24	4200	13	0.60	280	0	165	0.00
6	24	4085	13	0.62	260	20	150	0.08
7	24	4010	14	0.64	235	40	140	0.16
8	24	3930	14	0.66	200	60	120	0.24
9	16	2960	5.5	0.40	195	0	115	0.00
10	16	2900	5.8	0.41	180	10	105	0.04
11	16	2855	6.0	0.43	165	21	95	0.08
12	16	2805	6.3	0.45	140	29	80	0.12

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