

W1G250-BB21-01

EC axial fan - ESM

sickle-shaped blades (S series)
ESM fan housing with guard grille



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	W1G250-BB21-01		
Motor	M1G055-BI		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed	min ⁻¹	1700	1200
Power consumption	W	32	-
Current draw	A	0.47	
Max. back pressure	Pa	40	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	50	50

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



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Technical description

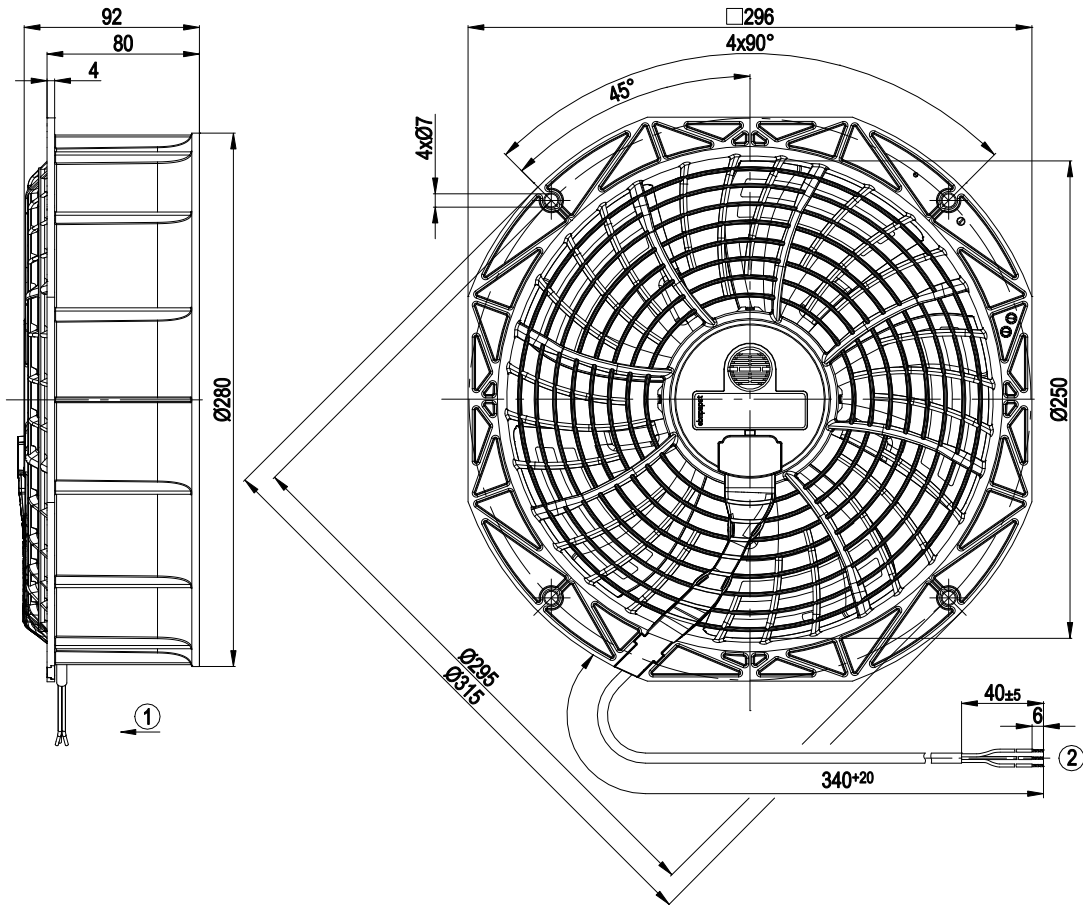
Weight	1.55 kg
Fan size	250 mm
Impeller material	PA plastic
Fan housing material	PP plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted 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 storage	Ball bearing
Technical features	<ul style="list-style-type: none"> - Thermal overload protection for motor - Soft start - Speed selection max./min.
Speed levels	2
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	II
Conformity with standards	EN 60335-1
Approval	EAC; VDE; UL 2111; CSA C22.2 No. 77



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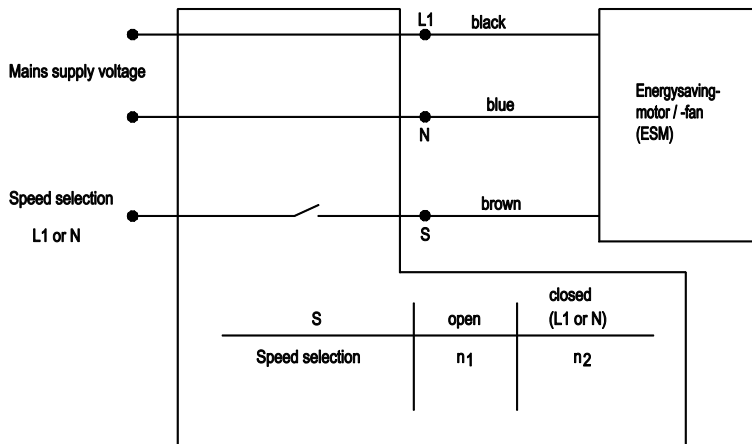
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Product drawing

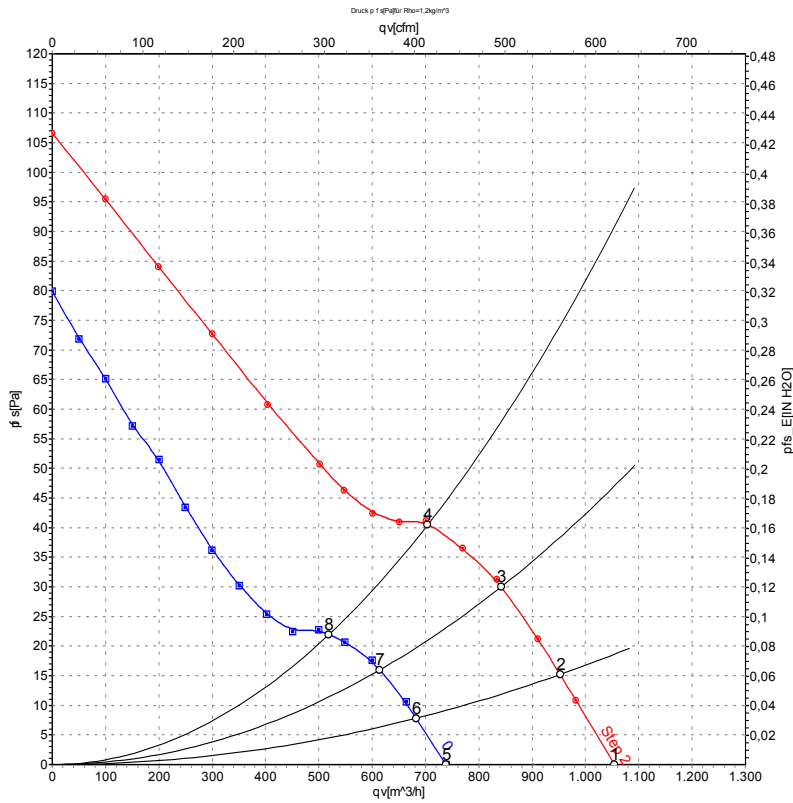


- 1 Direction of air flow "V"
- 2 Cable AWG20, 3x crimped splices

Connection diagram



Curves: Air performance 50 Hz



Measurement: LU-113725
Measurement: LU-113734

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

	Stage	U	f	n	P _{ed}	I	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	2	115	50	1700	30	0.44	1055	0
2	2	115	50	1700	31	0.45	950	15
3	2	115	50	1700	32	0.47	840	30
4	2	115	50	1700	32	0.47	705	40
5	1	115	50	1200	14	0.22	740	0
6	1	115	50	1200	15	0.24	680	8
7	1	115	50	1200	16	0.25	615	16
8	1	115	50	1200	17	0.26	520	22

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



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