S1G300-CB19-13

EC axial fan - ESM

sickle-shaped blades (S series)

ESM guard grille



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Nominal data

Type	**S1G300-CB19-13**
Motor	**M1G055-BI**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed (rpm)	min^{-1}	1200	900
Power consumption	W	30	14
Current draw	A	0.24	
Max. back pressure	Pa	30	
Max. back pressure	in. wg	0.12	
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	1.4 kg
Size	300 mm
Motor size	55
Blade material	PA plastic
Guard grille material	PP plastic
Number of blades	5
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
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	- Speed selection max./min. - Soft start - Thermal overload protection for motor
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)
Electrical hookup	Connector with cable
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	II
Conformity with standards	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	CSA C22.2 No. 77; EAC; UL 1004-3; VDE

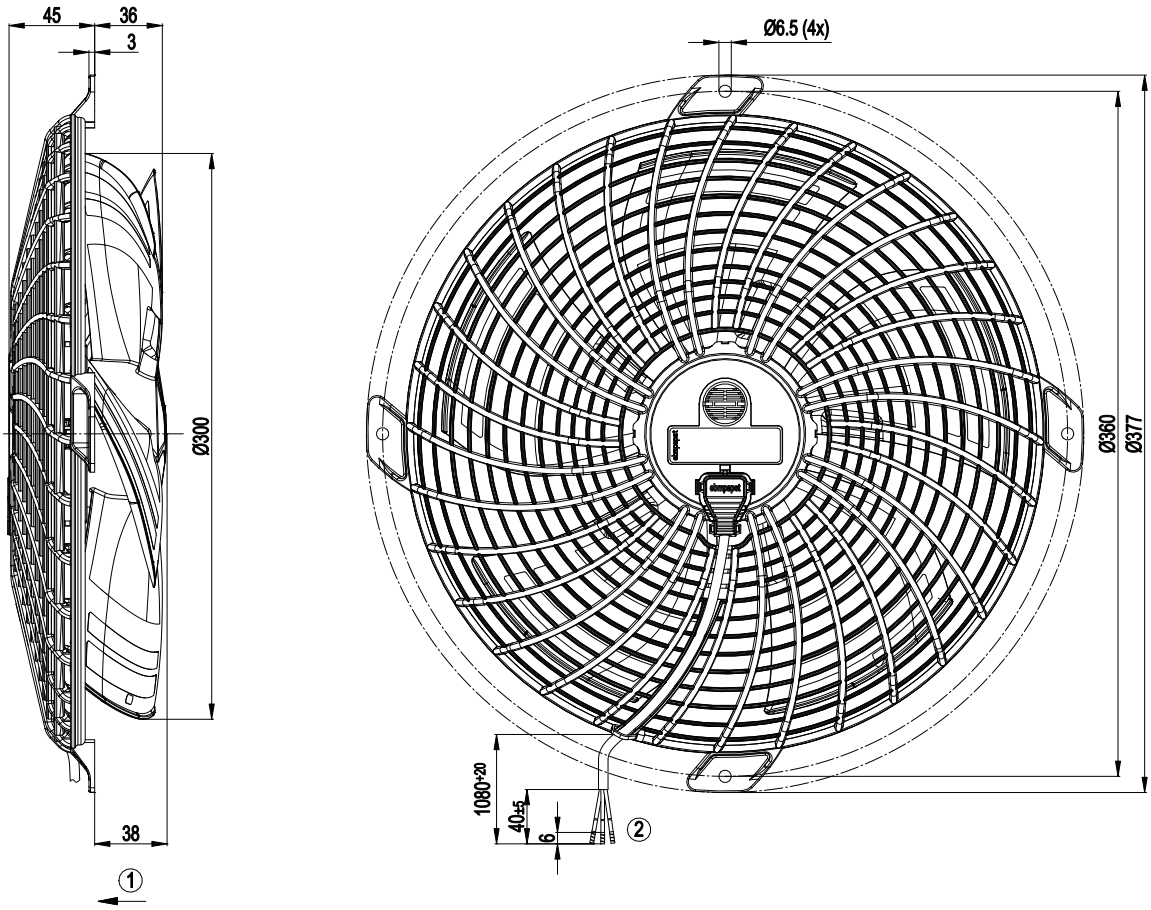
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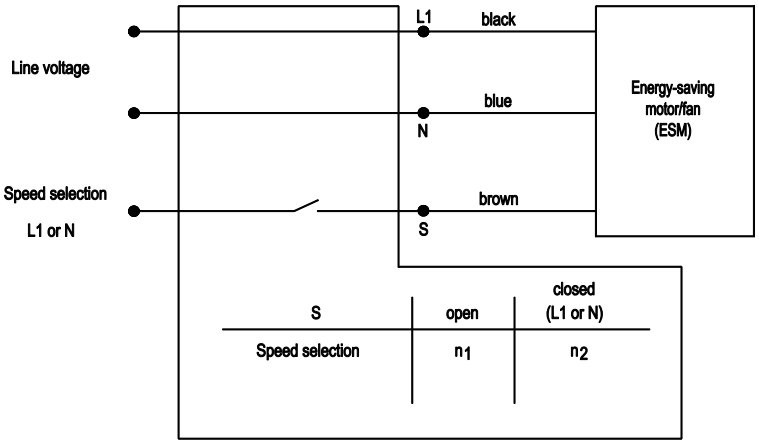
ESM guard grille

Product drawing



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

Connection diagram



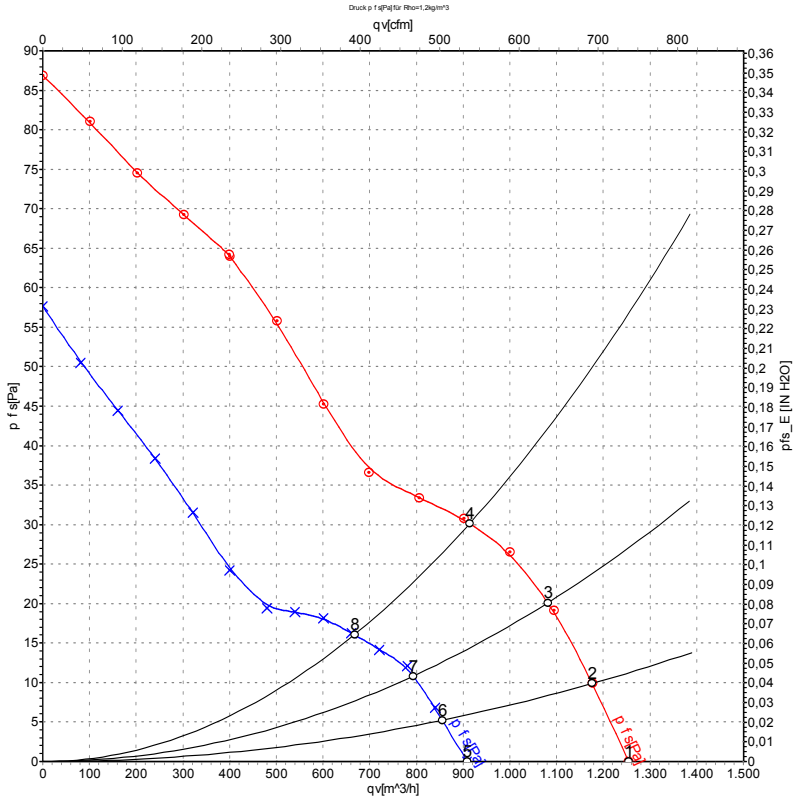
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Curves: Air performance 50 Hz



Measurement: LU-111487-1
Measurement: LU-110308-1

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	f	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	230	50	1200	24	0.19	1255	0	740	0.00
2	230	50	1200	27	0.22	1175	10	690	0.04
3	230	50	1200	30	0.23	1080	20	635	0.08
4	230	50	1200	30	0.24	915	30	540	0.12
5	230	50	900	13	0.12	910	0	535	0.00
6	230	50	900	13	0.13	855	5	505	0.02
7	230	50	900	14	0.14	795	11	465	0.04
8	230	50	900	16	0.15	665	16	395	0.06

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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