

S1G300-CA23-02

## EC axial fan - ESM

sickled blades (S series)

ESM guard grille



### Nominal data

Type	S1G300-CA23-02		
Motor	M1G055-BI		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Type of data definition		-	ml
Speed	min <sup>-1</sup>	900	1250
Power input	W	-	35
Current draw	A		0.56
Max. back pressure	Pa		35
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	50	50

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations



### Technical features

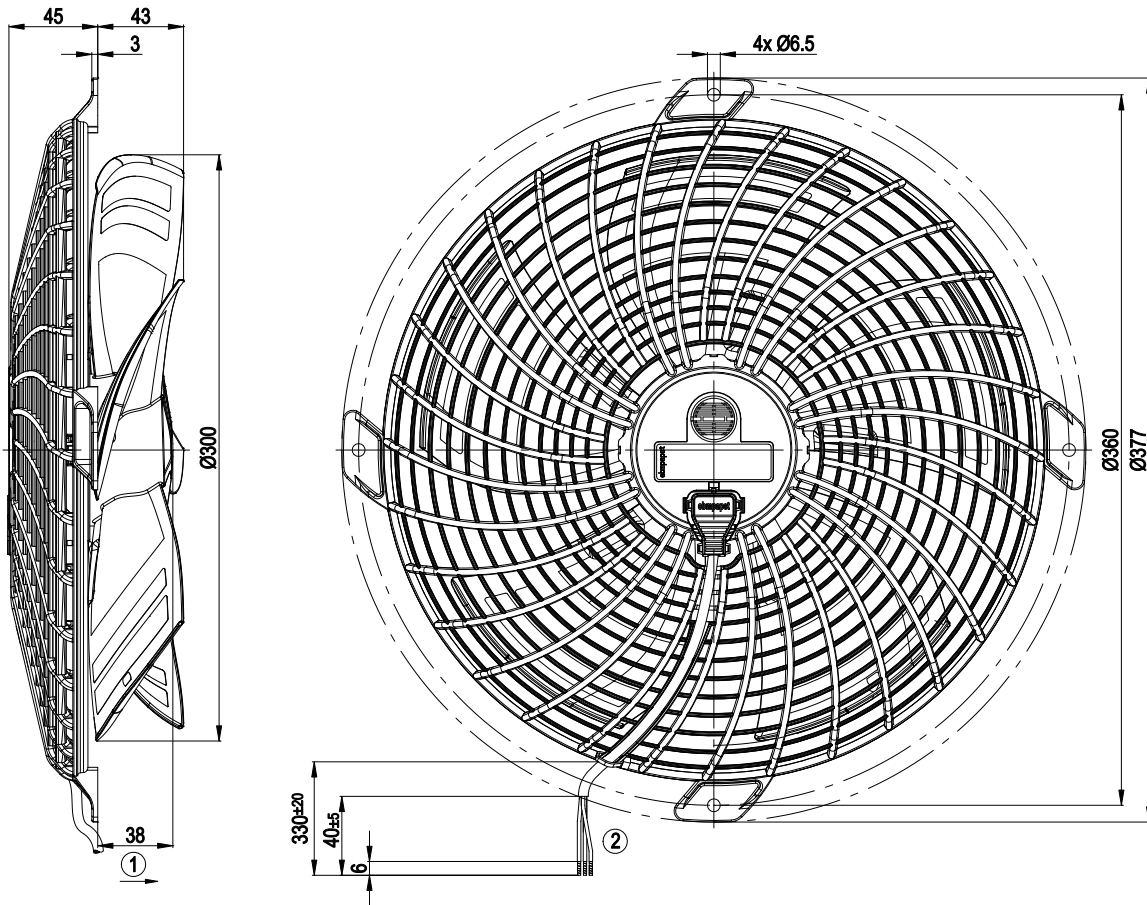
<b>Mass</b>	1.4 kg
<b>Size</b>	300 mm
<b>Material of impeller</b>	PA plastic 6, fibreglass-reinforced
<b>Material of guard grille</b>	Plastic, PPTD 40
<b>Number of blades</b>	5
<b>Direction of air flow</b>	"A"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 54
<b>Insulation class</b>	"B"
<b>Humidity class</b>	F3-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	-40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	None
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Over-temperature protected motor</li> <li>- Soft start</li> <li>- Speed selection max/min</li> </ul>
<b>EMC interference immunity</b>	Acc. to EN 61000-6-2 (industrial environment)
<b>EMC interference emission</b>	Acc. to EN 61000-6-3 (household environment)
<b>EMC harmonics</b>	Acc. to EN 61000-3-2/3
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Cable exit</b>	Lateral
<b>Protection class</b>	II
<b>Product conforming to standard</b>	EN 60335-1

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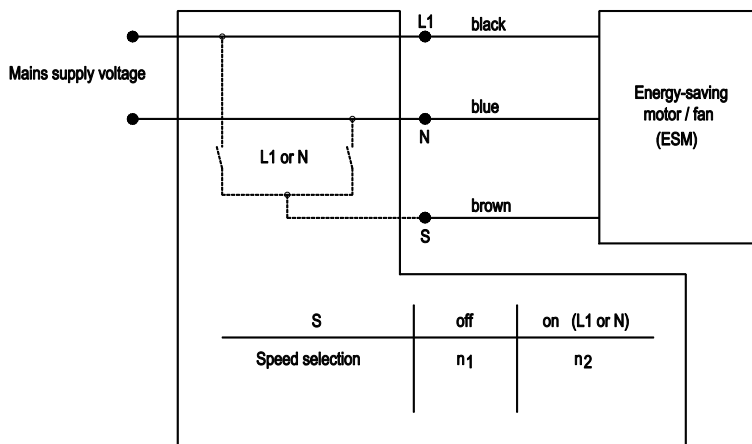
ESM guard grille

## Product drawing

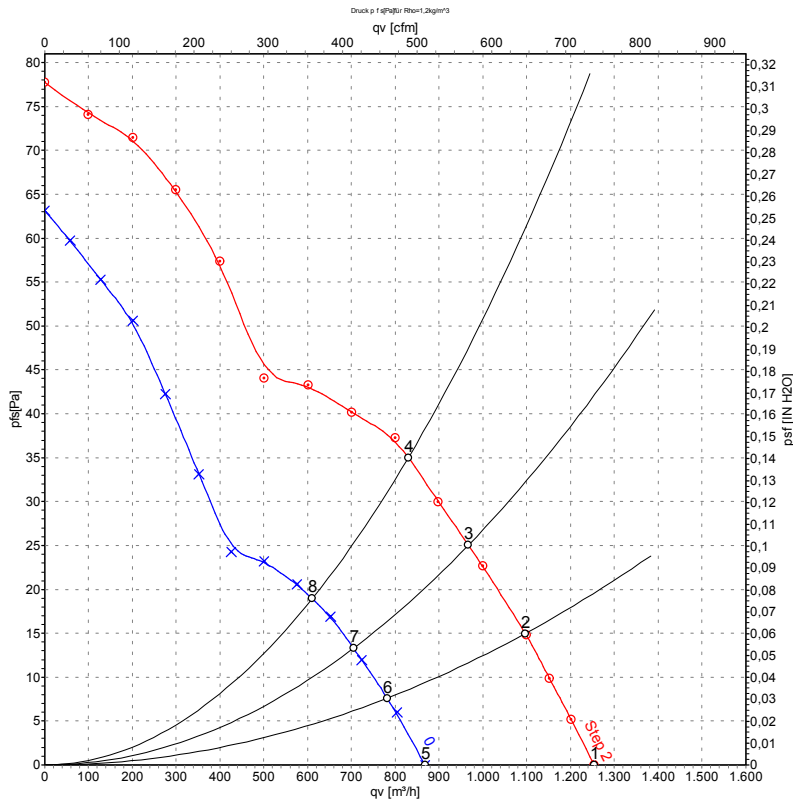


- 1 Direction of air flow "A"
- 2 Connection line AWG20; 3 x brass lead tips crimped

## Connection screen



## Charts: Air flow 50 Hz



Measurement: LU-121053  
Measurement: LU-121378

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

	Stage	U	f	n	P <sub>ed</sub>	I	qv	P <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	2	115	50	1250	31	0.45	1255	0
2	2	115	50	1250	32	0.47	1095	15
3	2	115	50	1250	32	0.48	965	25
4	2	115	50	1250	35	0.56	830	35
5	1	115	50	900	13	0.24	865	0
6	1	115	50	900	14	0.26	780	8
7	1	115	50	900	16	0.30	705	13
8	1	115	50	900	17	0.32	610	19

