S1G300-FO02-10

EC axial fan - ESM

sickled blades (S series), single inlet

ESM guard grille

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Nominal data

Type	**S1G300-FO02-10**
Motor	**M1G055-DF**

Phase		1~	1~
Nominal voltage	VAC	115	115
Nominal voltage range	VAC	100 .. 240	100 .. 240
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed (rpm)	min^{-1}	1370	685
Power input	W	60	
Current draw	A	0.9	
Max. back pressure	Pa	55	
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	40

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

Mass	1.6 kg
Size	300 mm
Motor size	55
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of guard grille	PP plastic
Number of blades	5
Direction of air flow	V
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP54
Insulation class	"B"
Humidity (F) / environmental protection class (H)	H1+
Max. permissible ambient motor temp. (transp./ storage)	+ 70 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensation drainage holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Technical features	- Speed selection max/min - Motor current limit - Soft start - Over-temperature protected motor
Speed steps	2
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Lateral
Protection class	II
Approval	EAC; UL 1004-7 + 60730-1; CSA C22.2 no. 77 + CAN/CSA-E60730-1

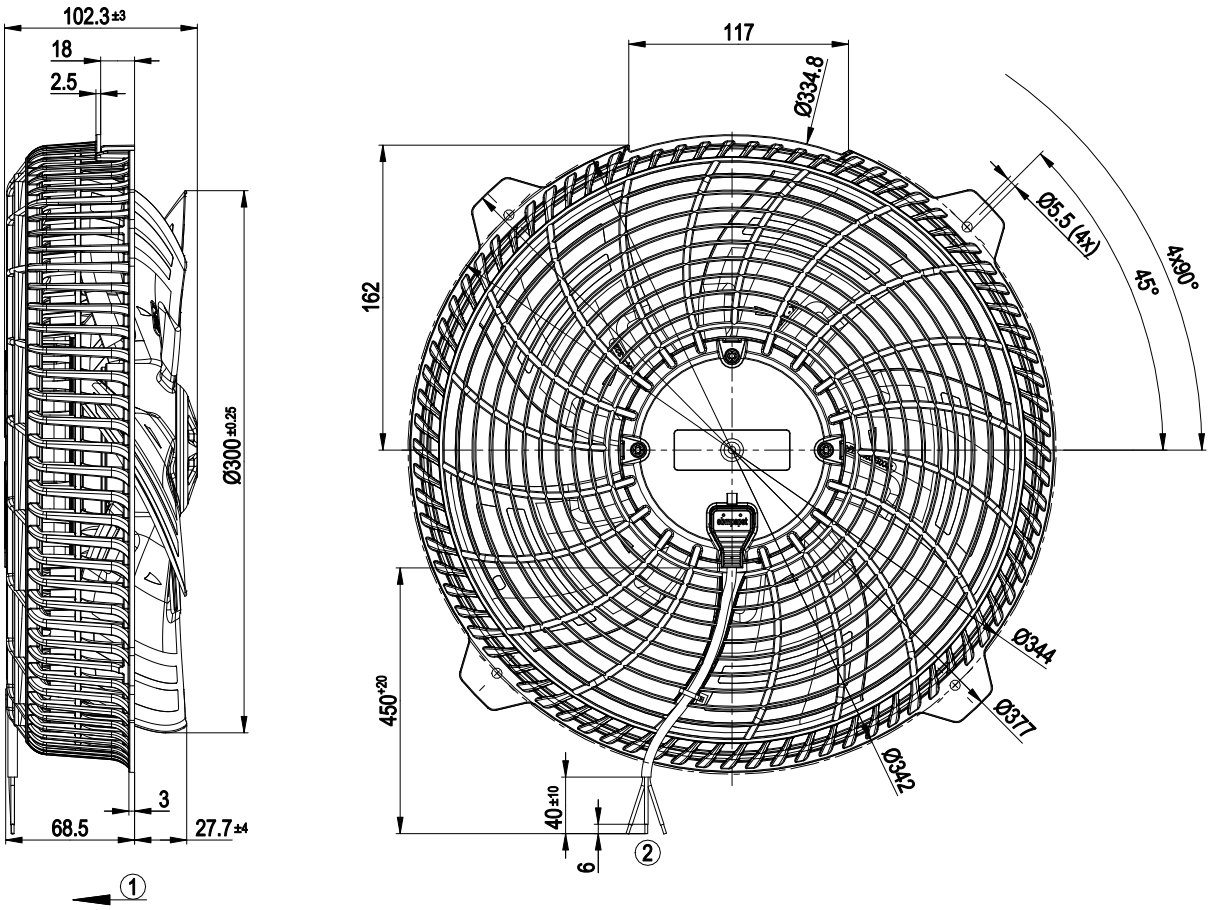
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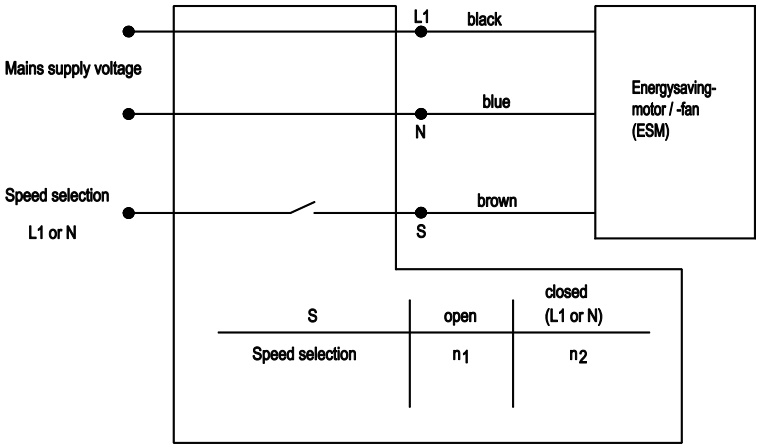
ESM guard grille

Product drawing



1	Direction of air flow "V"
2	Connection line PVC AWG20, 3x lead tips crimped

Connection screen



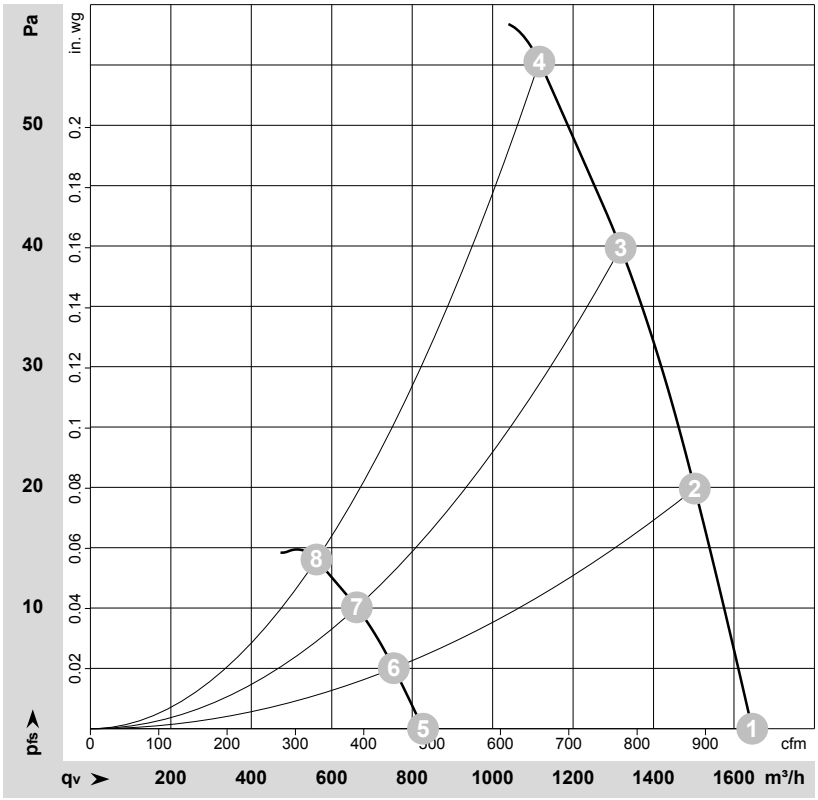
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-178944-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. 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	Conn.	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	1	1~	115	50	1370	45	0.71	1645	0	970	0.00
2	1	1~	115	50	1370	50	0.77	1505	20	885	0.08
3	1	1~	115	50	1370	55	0.84	1320	40	775	0.16
4	1	1~	115	50	1370	60	0.90	1115	55	655	0.22
5	2	1~	115	50	685	6.0	0.09	825	0	485	0.00
6	2	1~	115	50	685	6.0	0.10	755	5	445	0.02
7	2	1~	115	50	685	7.0	0.11	660	10	390	0.04
8	2	1~	115	50	685	8.0	0.11	560	14	330	0.06

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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