W1G300-EB19-20

EC axial fan

sickled blades (S series)

ESM wall ring

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Nominal data

Type	**W1G300-EB19-20**		
Motor	**M1G055-BI**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz		50/60
Type of data definition			ml
Speed	min^{-1}	900	1300
Power input	W	-	38
Current draw	A		0.3
Max. back pressure	Pa		41
Min. ambient temperature	°C	-25	-25
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

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Technical features

Mass	1.8 kg
Size	300 mm
Material of blades	PA plastic
Material of wall ring	Sheet steel, pre-galvanised and plastic-coated in pebble-grey (RAL 7032)
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Speed adjustment input (230 V) - ESM+ extensible with plug-in module - 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
Protection class	II
Product conforming to standard	EN 60335-1; CE
Approval	UL 2111; CSA C22.2 Nr.77; VDE

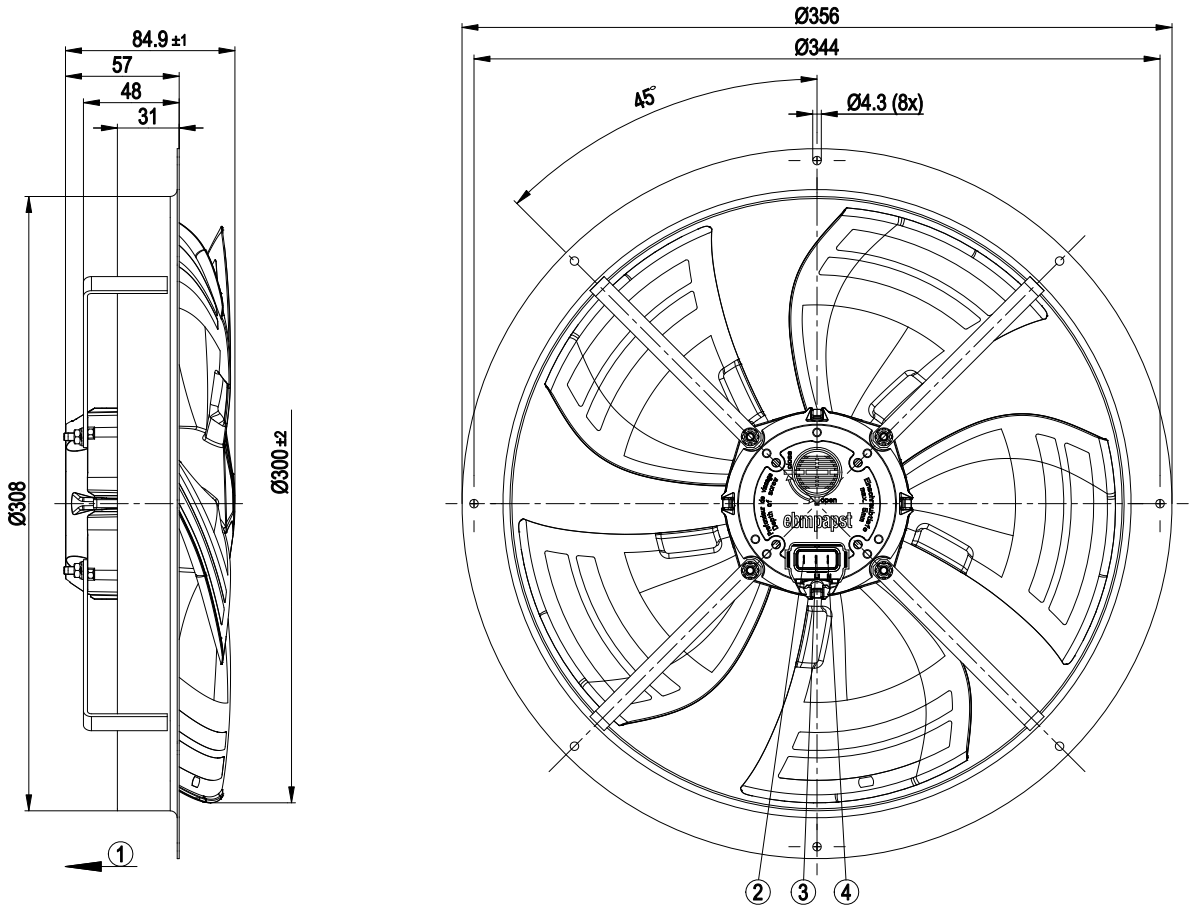
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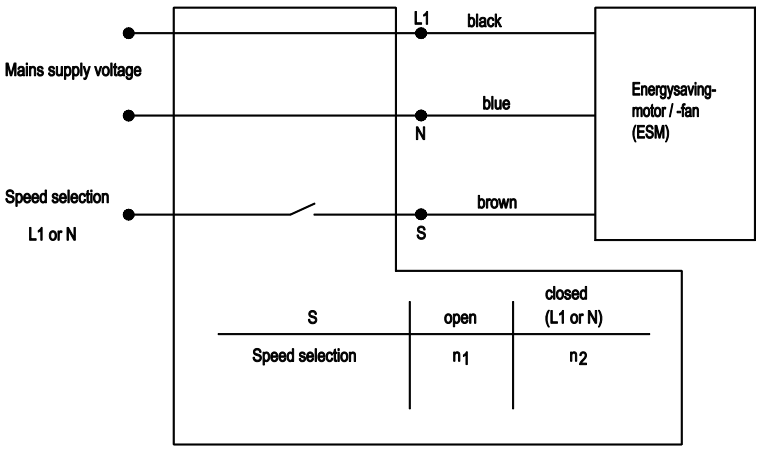
ESM wall ring

Product drawing



1	Direction of air flow "V"
2	PIN S, speed selection (flat plug 2.8 x 0.5)
3	PIN L1, phase (flat plug 2.8 x 0.5)
4	PIN N, neutral conductor (flat plug 2.8 X 0.5)

Connection screen



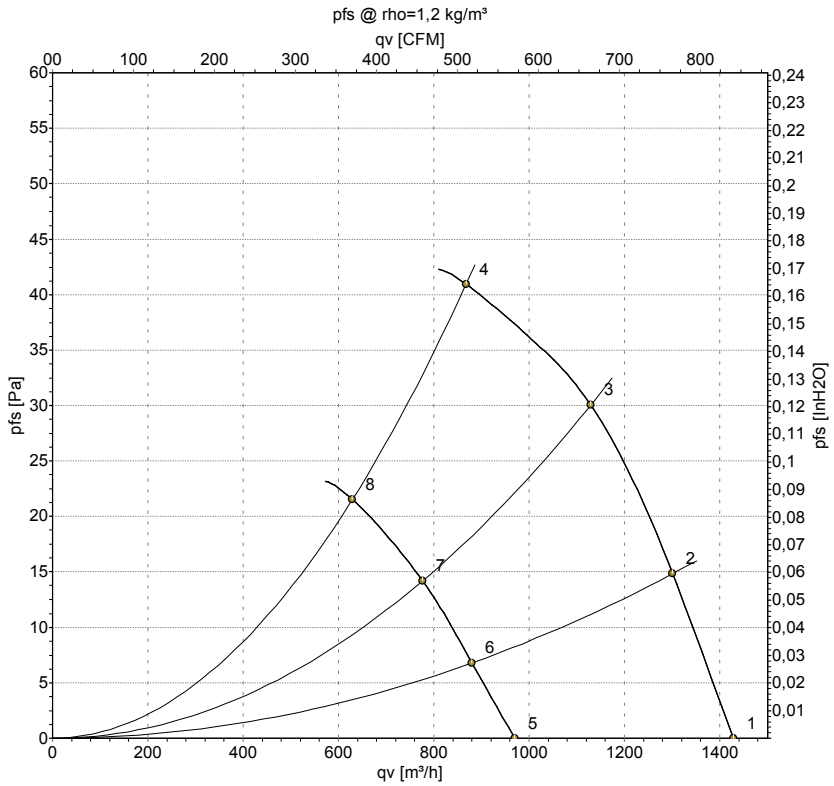
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Charts: Air flow 50 Hz



Measurement: LU-157545
Measurement: LU-142414

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

	U	f	n	P_{ed}	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	1300	28	0.24	1430	0
2	230	50	1300	32	0.27	1300	15
3	230	50	1300	35	0.30	1130	30
4	230	50	1300	38	0.30	865	41
5	230	50	900	11	0.11	970	0
6	230	50	900	14	0.13	880	7
7	230	50	900	14	0.14	775	14
8	230	50	900	17	0.16	630	22

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

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