

W1G300-BB19-01

EC axial fan - ESM

sickled blades (S series)

ESM wall ring with guard grille



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Nominal data

Type	W1G300-BB19-01	
Motor	M1G055-BI	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	1300
Power input	W	35
Current draw	A	0.27
Max. back pressure	Pa	35
Min. ambient temperature	°C	-30
Max. ambient temperature	°C	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	1.75 kg
Size	300 mm
Material of impeller	PA plastic 6, fibreglass-reinforced
Material of wall ring	Plastic, PPTD 20
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	- Over-temperature protected motor - Soft start - Speed selection max/min
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
Product conforming to standard	EN 60335-1; CE
Approval	CCC; CSA C22.2 Nr.77; EAC; UL 2111; VDE

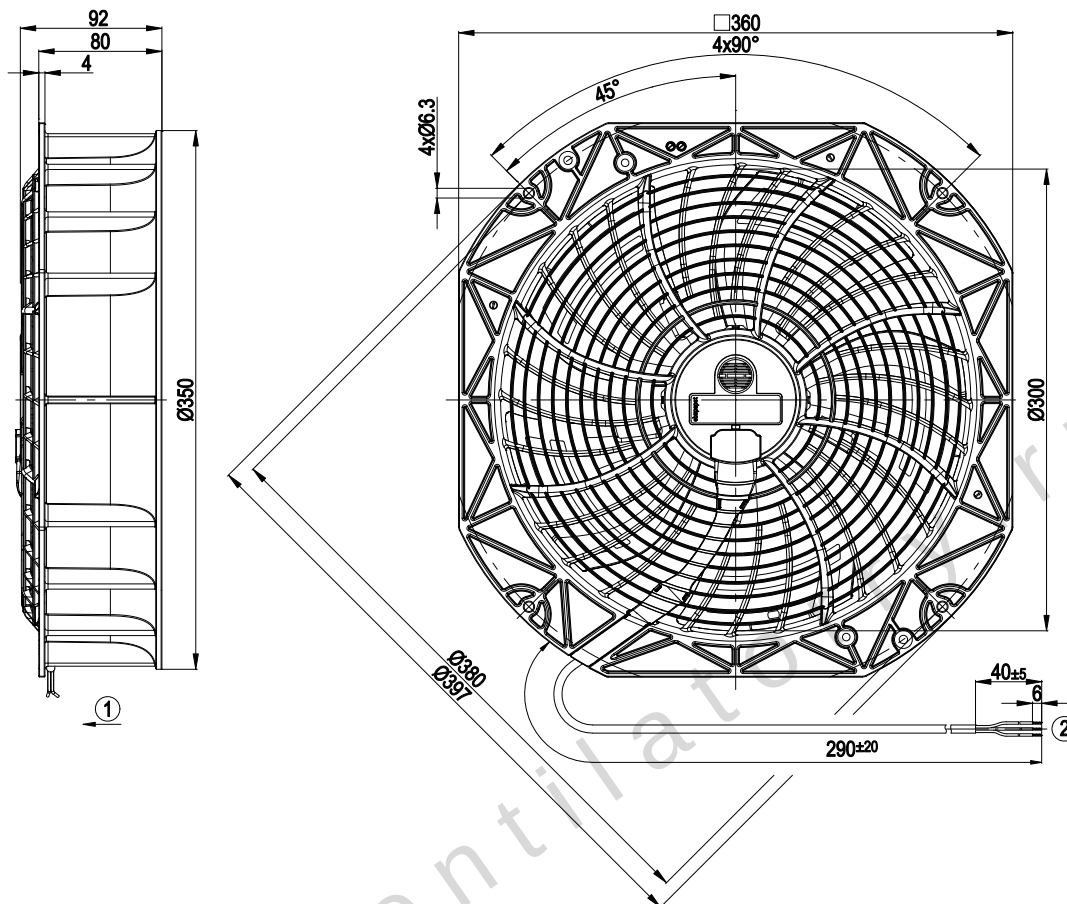
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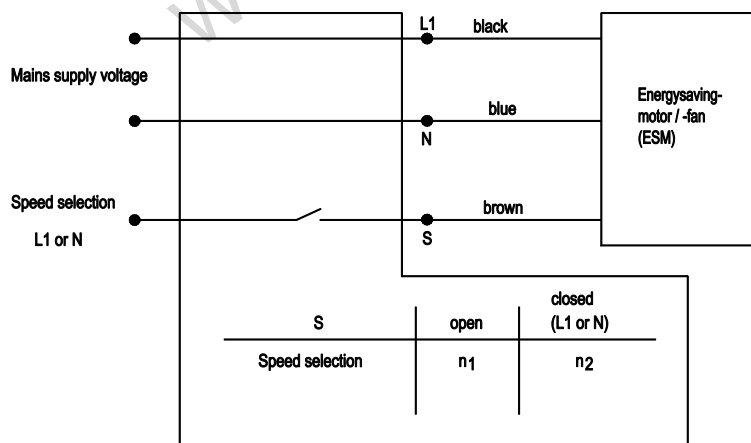
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Product drawing



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

Connection screen



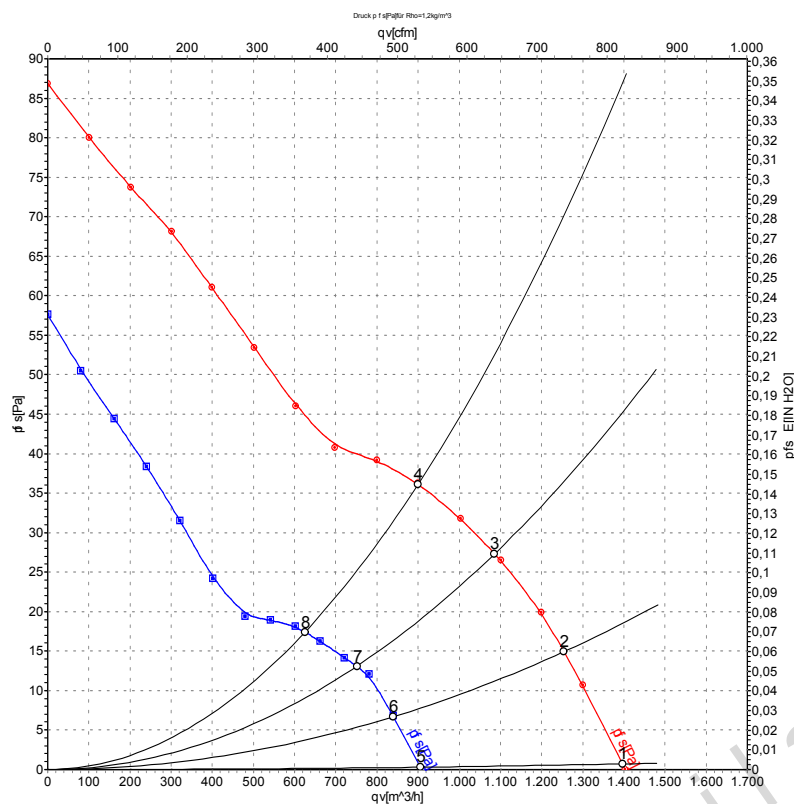
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Charts: Air flow 50 Hz



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: L_{wA} measured as per ISO 13347 /
L_{pA} 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	LpA _{in}	LwA _{in}	h _{eds}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	%	m³/h	Pa
1	230	50	1300	32	0.25	52	58	24	1395	0
2	230	50	1300	34	0.27	52	58	31	1255	15
3	230	50	1300	34	0.27	51	57	33	1085	28
4	230	50	1300	35	0.27	52	58	30	900	35
5	230	50	900	13	0.12	43	50	17	905	0
6	230	50	900	14	0.13	42	49	23	840	7
7	230	50	900	15	0.14	42	49	26	750	13
8	230	50	900	16	0.15	43	50	23	625	17

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · h_{eds} = Total efficiency
qv = Air flow · p_{fs} = Pressure increase