

W1G250-BB17-01

EC axial fan - ESM

sickled blades (S series)

ESM wall ring with guard grille



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Nominal data

Type	W1G250-BB17-01		
Motor	M1G055-BI		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed	min ⁻¹	1700	1200
Power input	W	32	-
Current draw	A	0.24	
Max. back pressure	Pa	40	
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

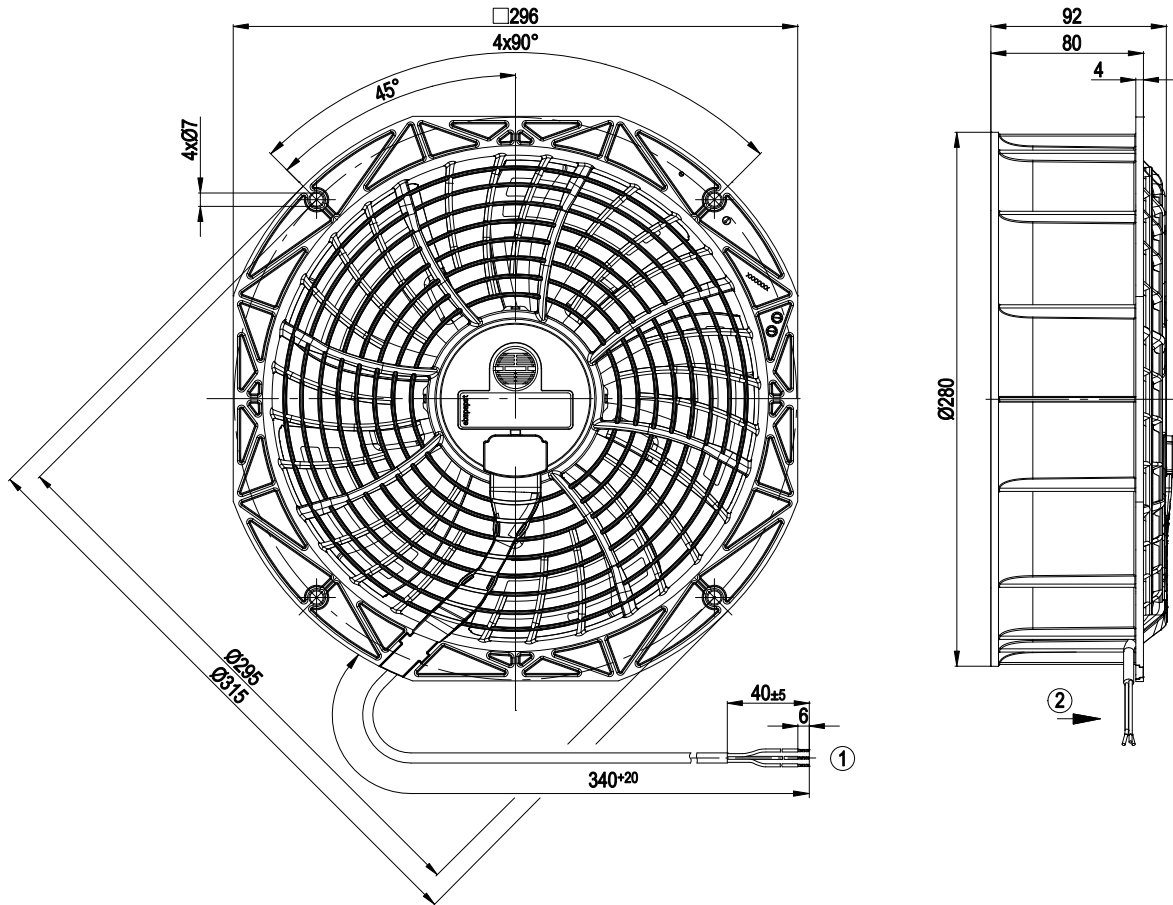
Mass	1.5 kg
Size	250 mm
Material of impeller	PA plastic 6, fibreglass-reinforced
Material of wall ring	Plastic, PPTD 40
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F3-1
Max. permissible 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	<ul style="list-style-type: none"> - 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	CSA C22.2 Nr.77; EAC; UL 2111; VDE

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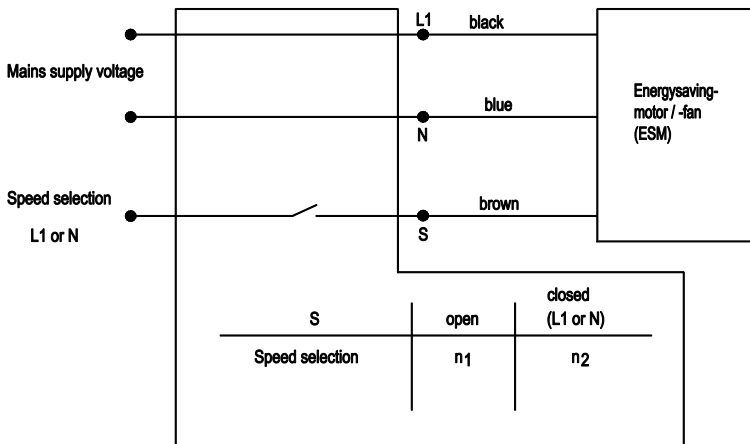
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Product drawing



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

Connection screen

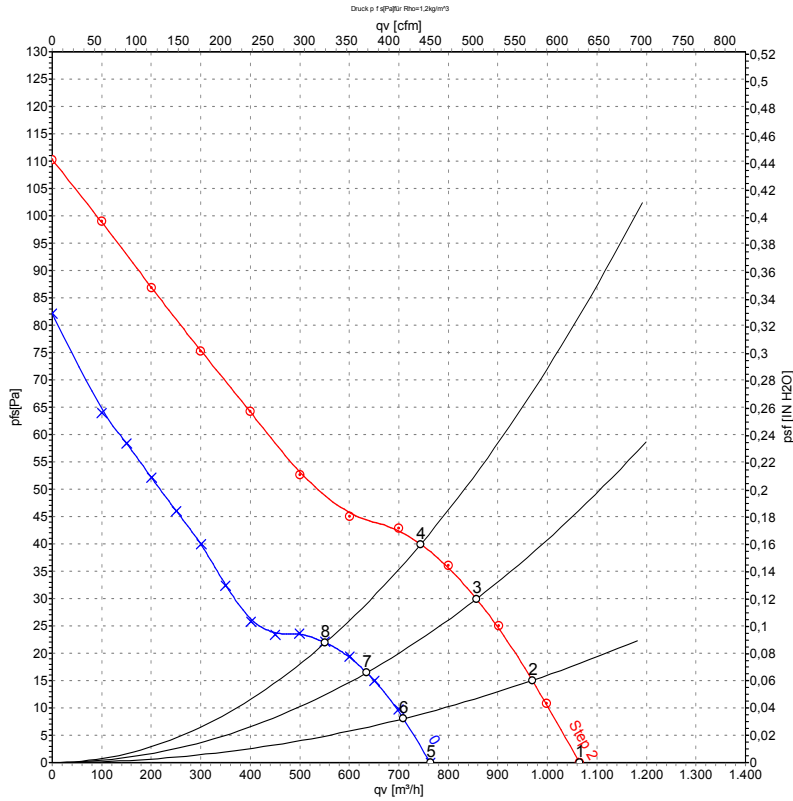


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Charts: Air flow 50 Hz



Measurement: LU-112960
Measurement: LU-112961

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	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	2	230	50	1700	30	0.24	55	62	1065	0
2	2	230	50	1700	31	0.24	56	63	970	15
3	2	230	50	1700	32	0.24	56	64	855	30
4	2	230	50	1700	32	0.24	57	65	745	40
5	1	230	50	1200	14	0.12	46	53	765	0
6	1	230	50	1200	15	0.13	46	54	710	8
7	1	230	50	1200	16	0.14	47	55	635	16
8	1	230	50	1200	17	0.14	49	57	550	22

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 · qv = Air flow
p_{fs} = Pressure increase

