

W1G250-BB17-01

EC axial fan - ESM

sickle-shaped blades (S series)
ESM fan housing with guard grille



ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	W1G250-BB17-01		
Motor	M1G055-BI		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed	min ⁻¹	1700	1200
Power consumption	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 = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

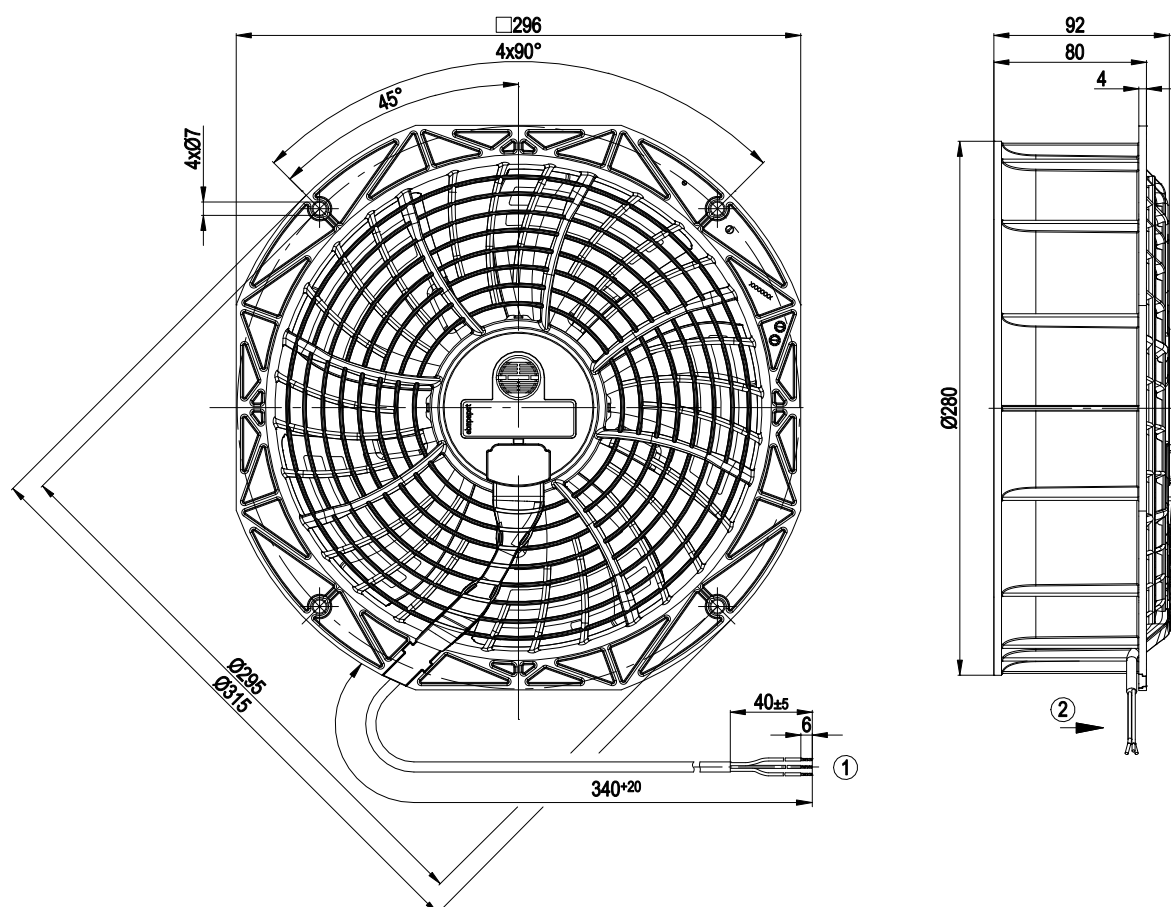
Weight	1.5 kg
Fan size	250 mm
Impeller material	PA 6 plastic, glass-fiber reinforced
Fan housing material	PPTD 40 plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor storage	Ball bearing
Technical features	- Thermal overload protection for motor - Soft start - Speed selection max./min.
Speed levels	2
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	II
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 77; EAC; UL 2111; VDE

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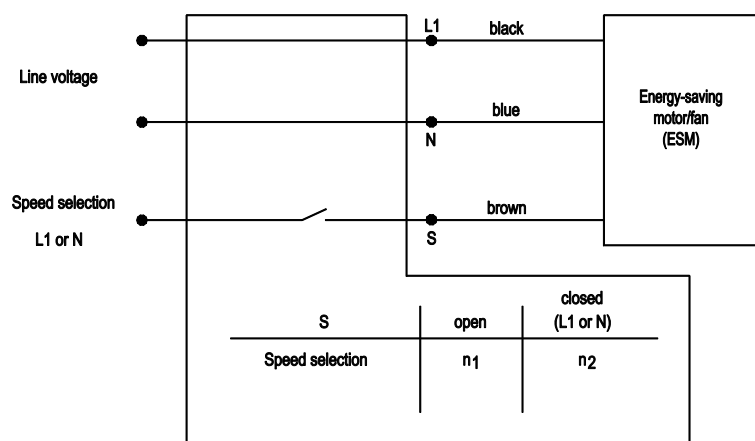
Product drawing



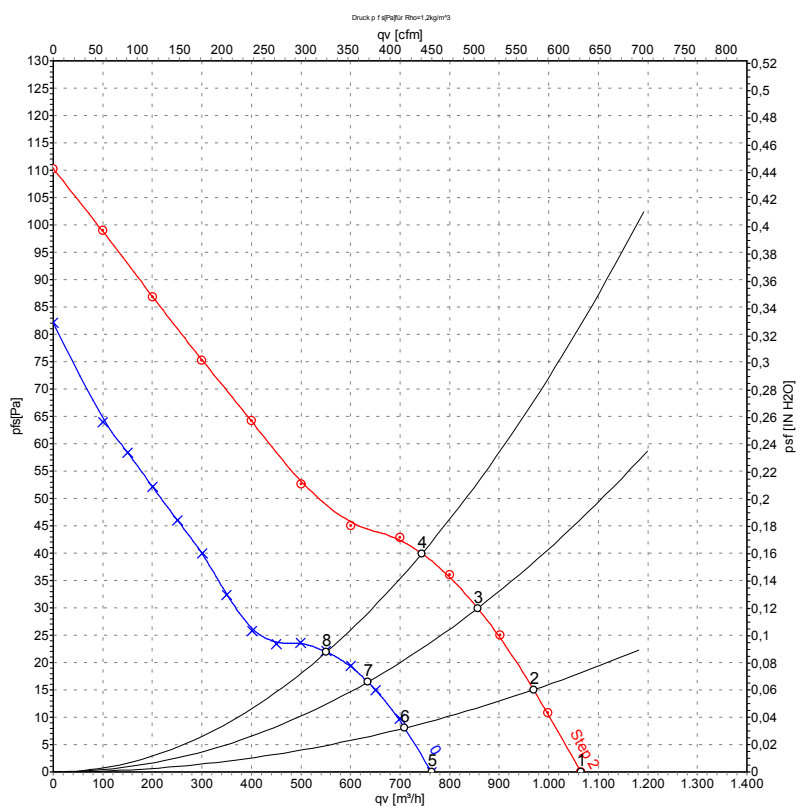
1 Cable AWG20, 3x crimped splices

2 Direction of air flow "V"

Connection diagram



Curves: Air performance 50 Hz



Measurement: LU-112960
Measurement: LU-112961

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

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)	m³/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 = Power supply · f = Frequency · n = Speed · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
qv = Air flow · p_{fs} = Pressure increase