

W1G230-EB89-01

EC axial fan - ESM

sickle-shaped blades (S series)

ESM fan housing



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	W1G230-EB89-01		
Motor	M1G055-BD		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed (rpm)	min ⁻¹	1500	1000
Power consumption	W	26	
Current draw	A	0.2	
Max. back pressure	Pa	36	
Max. back pressure	inH ₂ O	0.14	
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

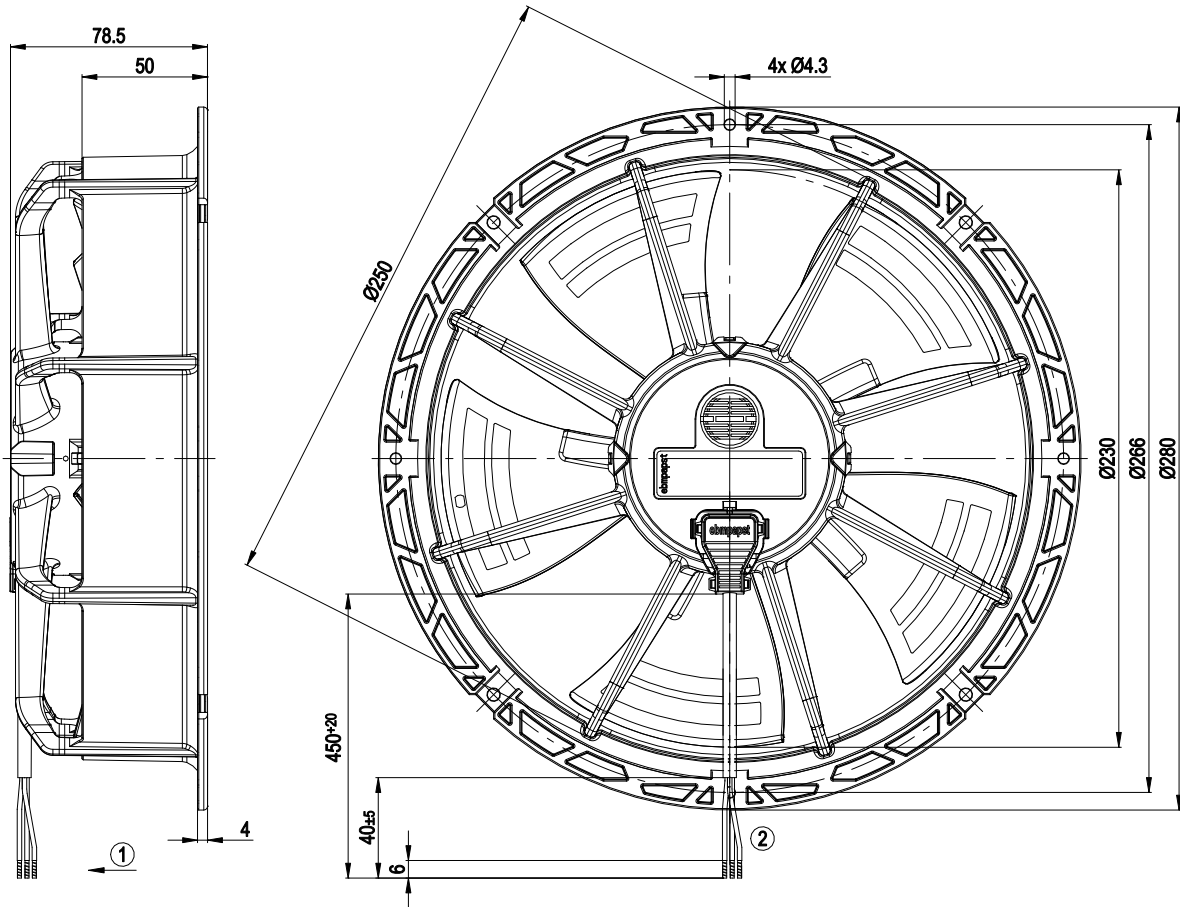
Weight	1.05 kg
Fan size	230 mm
Blade material	PA plastic
Fan housing material	PP plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted 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 bearing	Ball bearing
Technical features	<ul style="list-style-type: none"> - 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; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	CSA C22.2 No. 77; VDE; UL 1004-3; EAC

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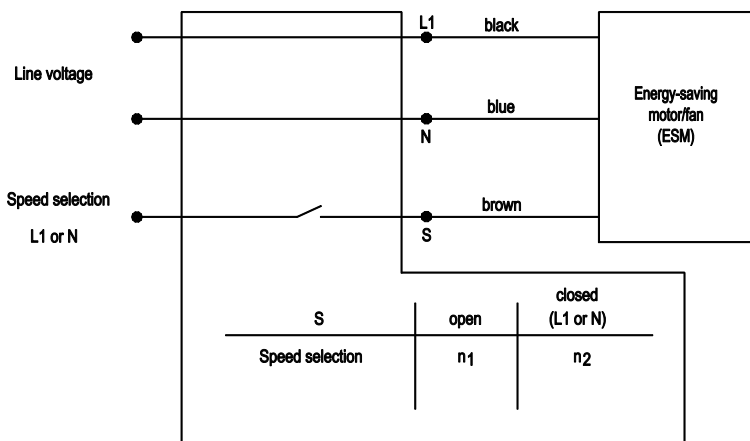
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Product drawing

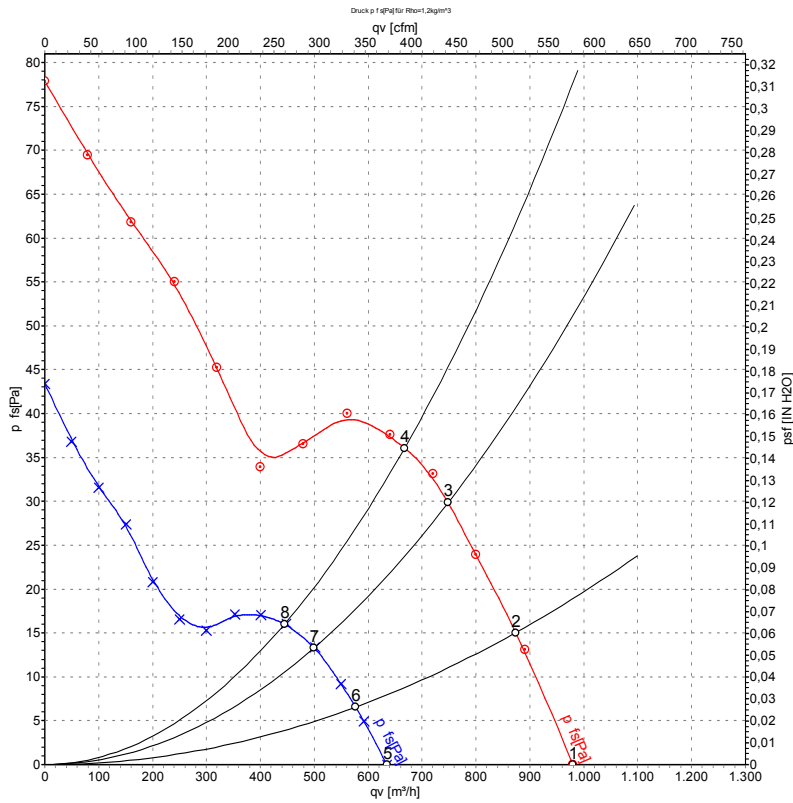


- 1 Direction of air flow "V"
- 2 Direction of rotation counterclockwise, viewed toward rotor
- 3 Cable AWG20; 3x crimped splices

Connection diagram



Curves: Air performance 50 Hz



Measurement: LU-112479-1
Measurement: LU-112480-1

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

	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	q _v	P _{fs}	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	inH ₂ O
1	230	50	1500	24	0.19	51	58	980	0	575	0.00
2	230	50	1500	25	0.19	51	58	875	15	515	0.06
3	230	50	1500	25	0.19	50	58	750	30	440	0.12
4	230	50	1500	26	0.20	49	57	670	36	395	0.14
5	230	50	1000	10	0.09	39	48	635	0	375	0.00
6	230	50	1000	10	0.09	39	48	575	7	340	0.03
7	230	50	1000	11	0.10	40	48	500	14	295	0.06
8	230	50	1000	11	0.10	40	48	445	16	260	0.06

U = Power supply · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · P_{fs} = Pressure increase

