W1G230-EB91-22

EC axial fan - ESM

sickled blades (S series), single inlet

ESM wall ring



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Nominal data

Type	**W1G230-EB91-22**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed (rpm)	min^{-1}	1600	1000
Power input	W	32	
Current draw	A	0.3	
Max. back pressure	Pa	45	
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

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Technical features

Mass	1.0 kg
Size	230 mm
Material of blades	PA plastic
Material of wall ring	Plastic PP
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54; Only with suitable connector, which has to be fitted by the customer
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H1
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
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	II
Product conforming to standard	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	CSA C22.2 No.77; UL 1004-3; VDE

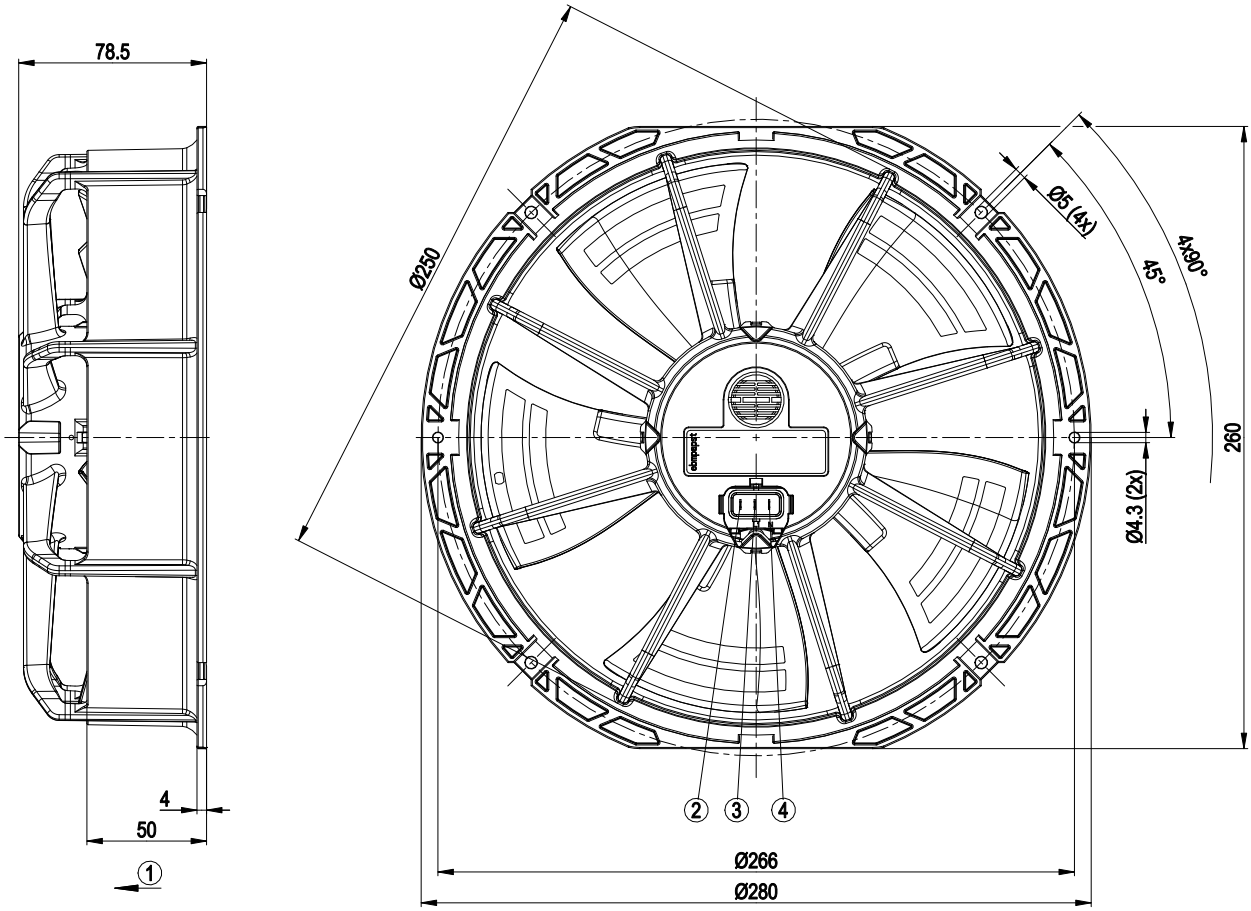
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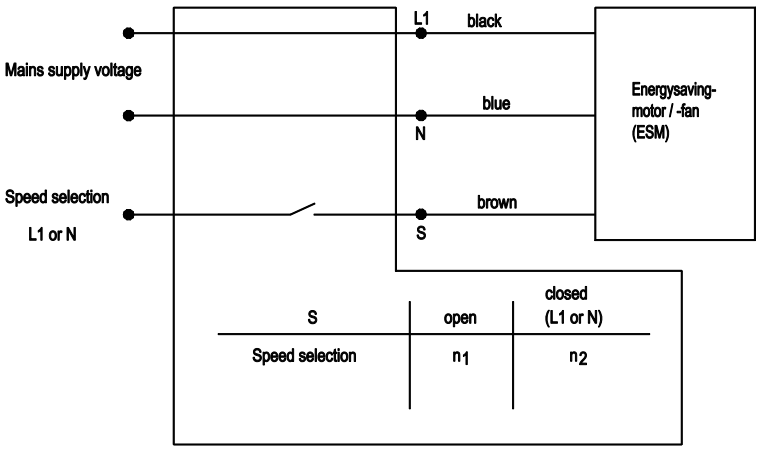
ESM wall ring

Product drawing



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

Connection screen



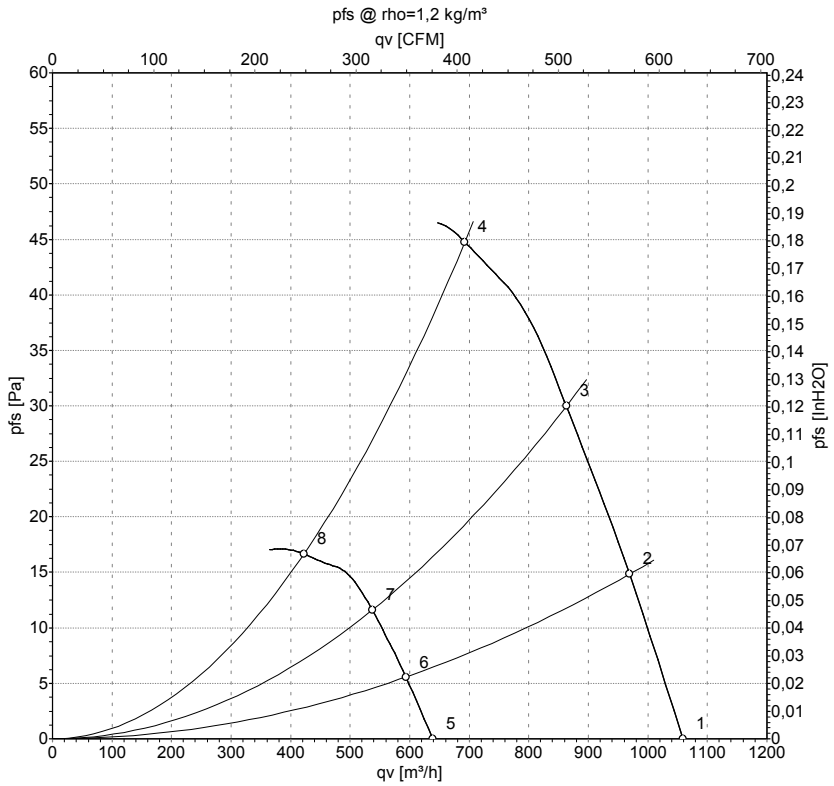
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Charts: Air flow 50 Hz



Measurement: LU-152684-1
Measurement: LU-152688-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1600	29	0.25	1060	0	625	0.00
2	230	50	1600	31	0.26	970	15	570	0.06
3	230	50	1600	32	0.28	865	30	510	0.12
4	230	50	1600	32	0.30	690	45	405	0.18
5	230	50	1000	8.0	0.07	640	0	375	0.00
6	230	50	1000	8.0	0.08	595	6	350	0.02
7	230	50	1000	9.0	0.08	535	12	315	0.05
8	230	50	1000	9.0	0.08	420	17	250	0.07

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

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