W1G200-EC91-42

EC axial fan - ESM

sickled blades (S series), single inlet

ESM wall ring



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Nominal data

Type	**W1G200-EC91-42**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Type of data definition		ml	ml
Speed (rpm)	min^{-1}	1900	1100
Power input	W	27	
Current draw	A	0.2	
Max. back pressure	Pa	48	
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 kg
Size	200 mm
Material of blades	PA plastic
Material of wall ring	PP plastic
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
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
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; VDE; UL 1004-3

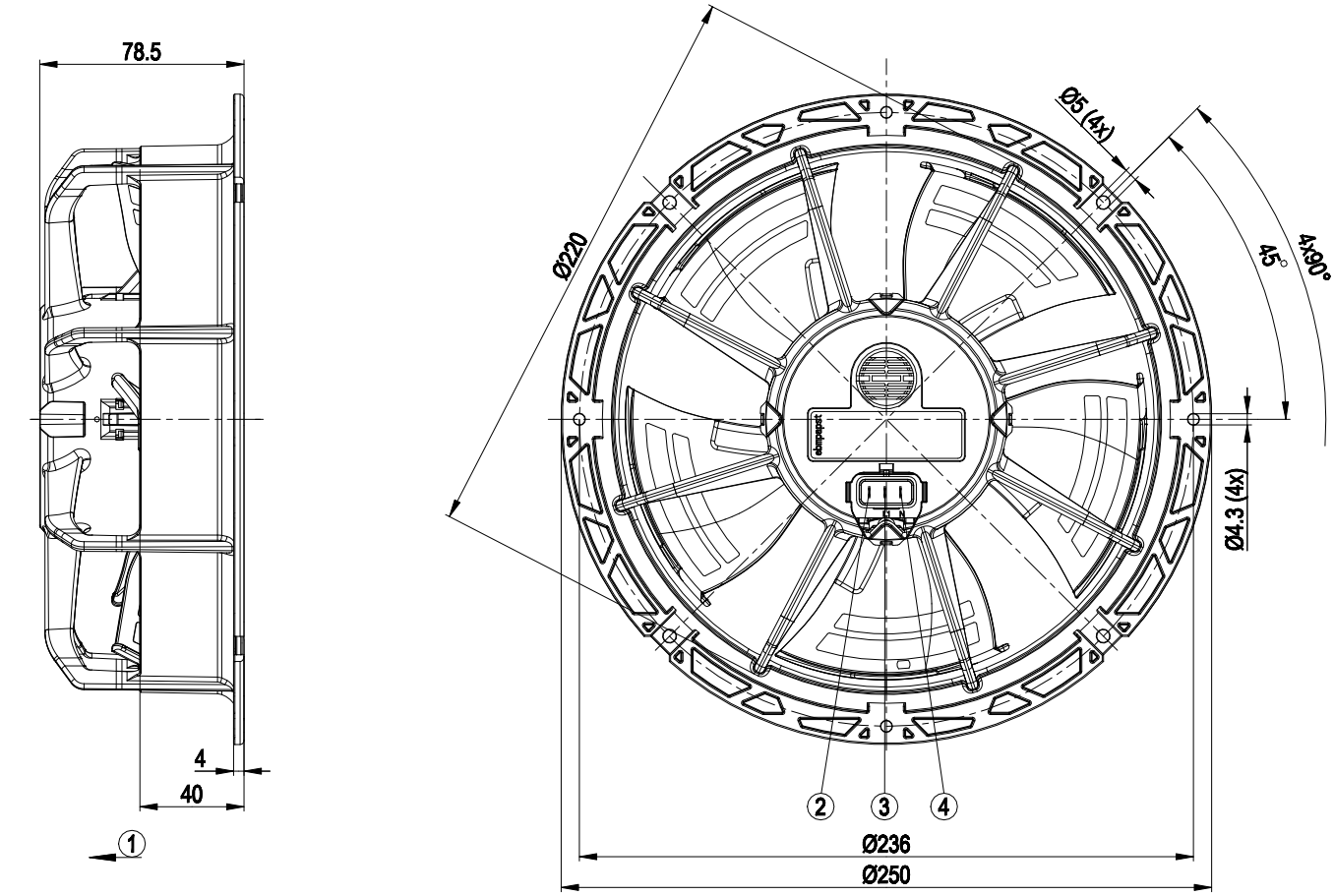
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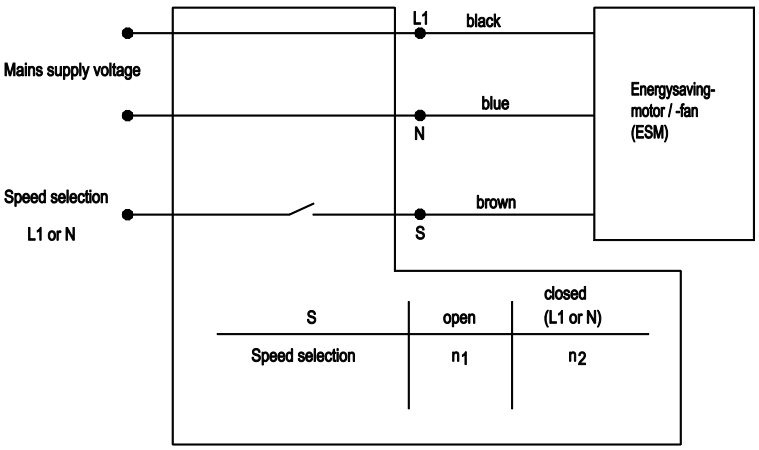
ESM wall ring

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



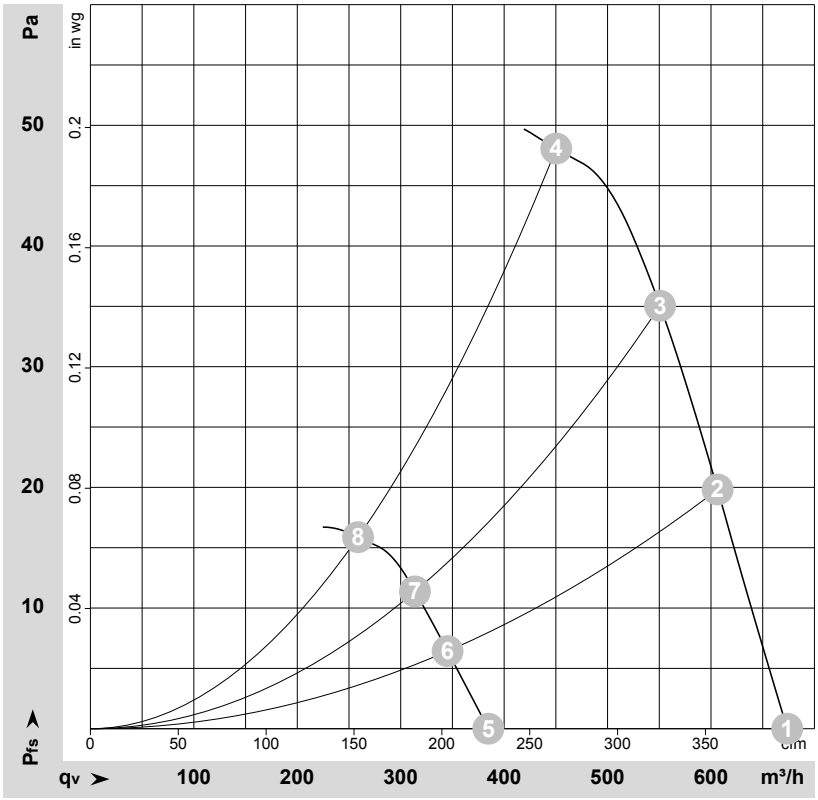
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-117576-1
Measurement: LU-113352-1

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	1900	25	0.19	675	0	395	0.00
2	230	50	1900	26	0.20	605	20	355	0.08
3	230	50	1900	27	0.20	550	35	325	0.14
4	230	50	1900	26	0.20	450	48	265	0.19
5	230	50	1100	5.0	0.04	385	0	225	0.00
6	230	50	1100	6.0	0.05	345	6	205	0.02
7	230	50	1100	6.0	0.05	315	11	185	0.04
8	230	50	1100	6.0	0.05	260	16	150	0.06

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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