W1G200-EC95-51

EC axial fan - ESM

sickle-shaped blades (S series), single-intake

ESM fan housing

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Nominal data

Type	**W1G200-EC95-51**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	ml
Speed (rpm)	min^{-1}	1500	2100
Power consumption	W	-	31
Current draw	A	-	0.46
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

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Technical description

Weight	0.9 kg
Fan size	200 mm
Blade material	PA plastic
Fan housing material	PP plastic
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54; only with suitable plug, to be installed by customer
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	- Speed selection max./min. - ESM+ expandable with plug-in module - Soft start - Thermal overload protection for motor
Speed levels	2
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	II
Conformity with standards	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89
Approval	EAC; VDE; UL 1004-3; CSA C22.2 No. 77

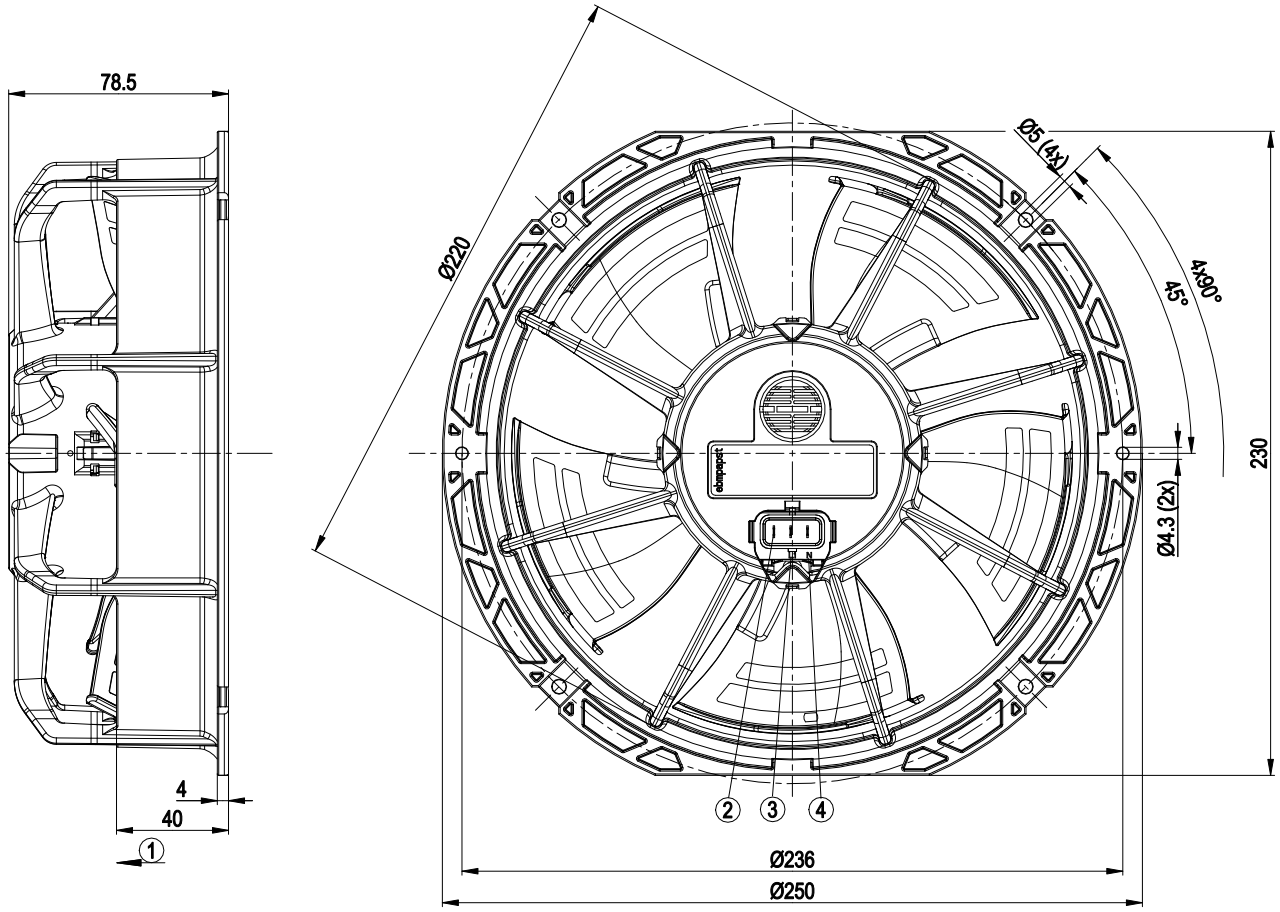
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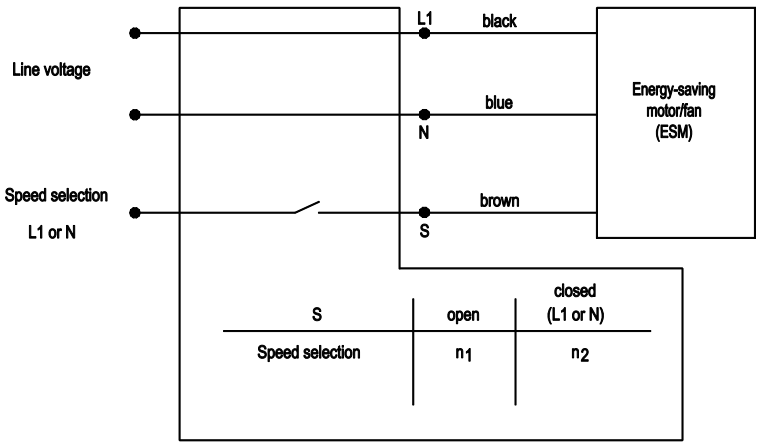
ESM fan housing

Product drawing



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

Connection diagram



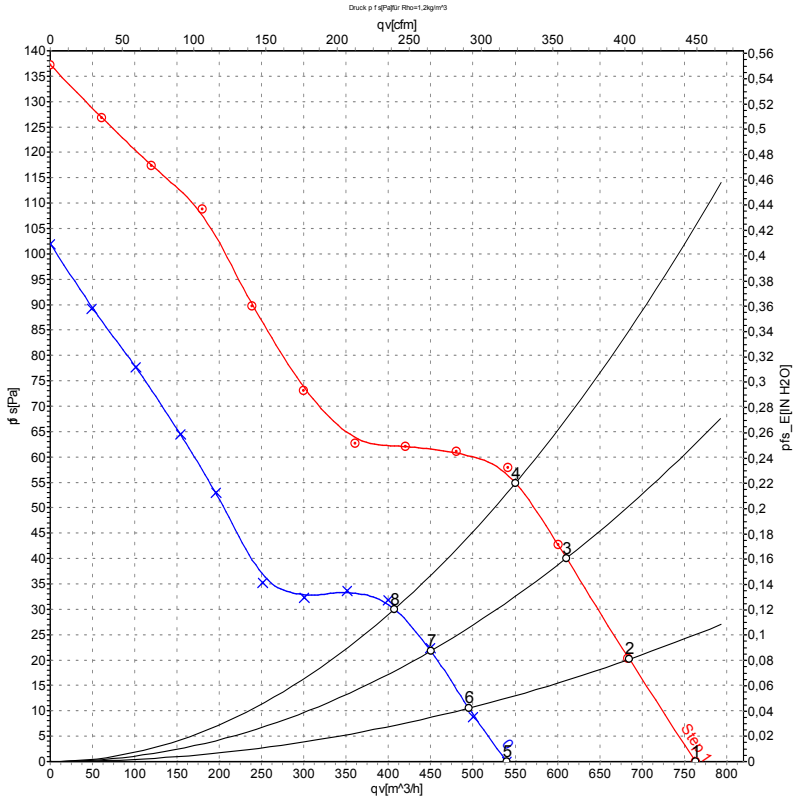
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Curves: Air performance 50 Hz



Measurement: LU-127262-1
Measurement: LU-127268-1

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

	Stage	U	f	n	P_{ed}	I	LwA_{in}	qv	p_{fs}	qv	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	m^3/h	Pa	CFM	inH2O
1	1	115	50	2100	28	0.42	62	765	0	450	0.00
2	1	115	50	2100	30	0.45	61	685	20	405	0.08
3	1	115	50	2100	31	0.46	60	610	40	360	0.16
4	1	115	50	2100	31	0.46	62	550	55	325	0.22
5	1	115	50	1500	14	0.22	54	540	0	320	0.00
6	1	115	50	1500	15	0.22	54	495	10	290	0.04
7	1	115	50	1500	16	0.26	53	450	22	265	0.09
8	1	115	50	1500	16	0.26	55	405	30	240	0.12

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

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