W1G172-EC97-28

EC axial fan - ESM

sickled blades (S series), single inlet

ESM wall ring

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Nominal data

Type	**W1G172-EC97-28**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Type of data definition		ml	ml
Speed (rpm)	min^{-1}	1800	1500
Power input	W	9	
Current draw	A	0.14	
Max. back pressure	Pa	30	
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	0.9 kg
Size	172 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 selection max/min - ESM+ extensible with plug-in module - Soft start - Over-temperature protected motor
Speed steps	2
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	UL 1004-3; CSA C22.2 No.77; VDE

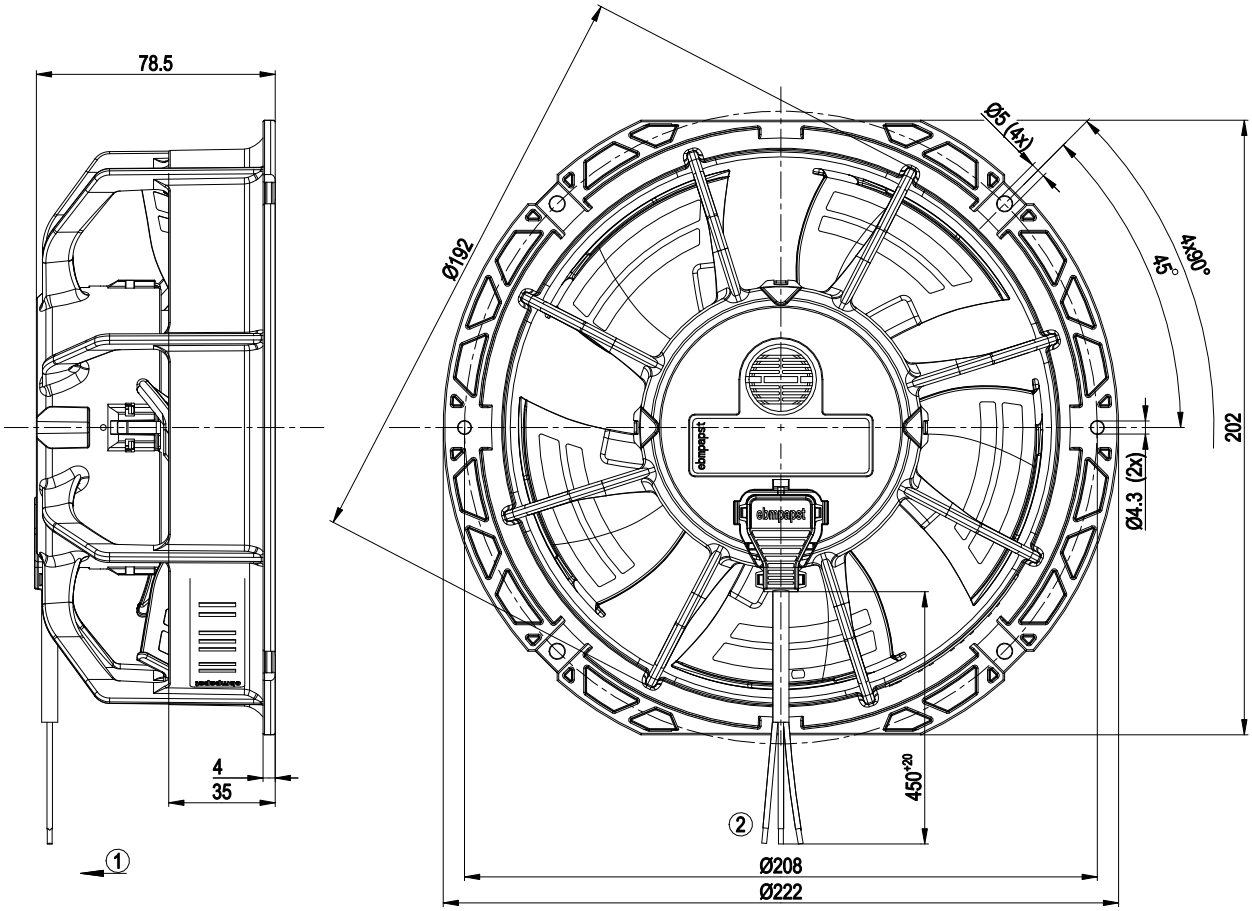
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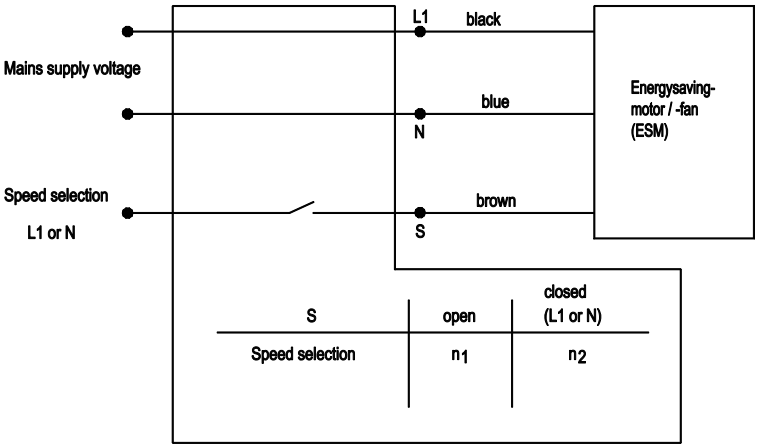
ESM wall ring

Product drawing



1	Direction of air flow "V"
2	Connection line PVC AWG20, 3x lead tips crimped

Connection screen



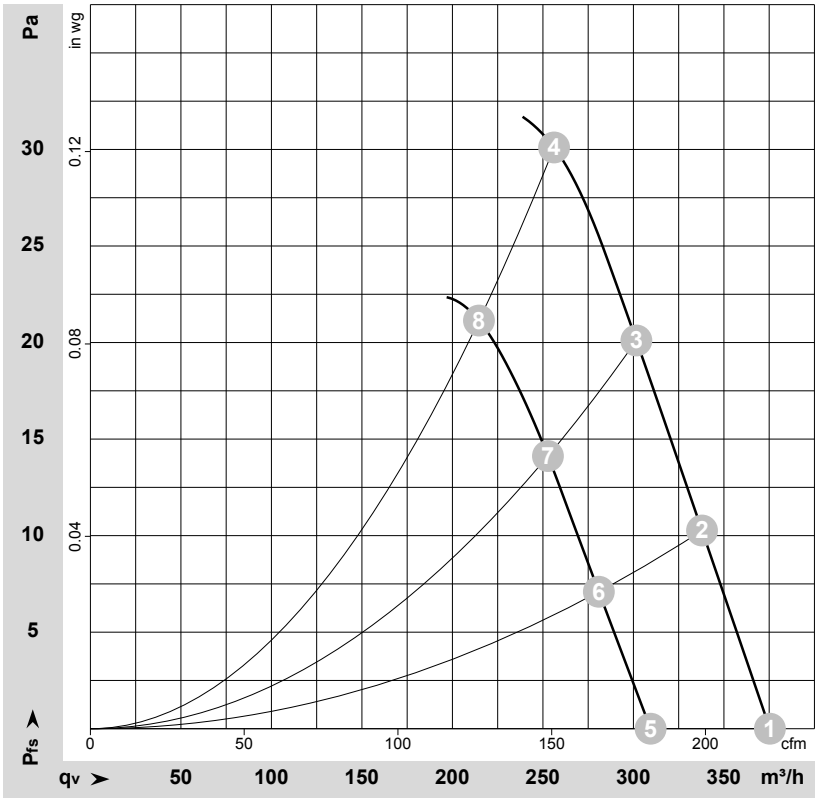
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-173990-1
Measurement: LU-174023-1

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	115	50	1800	9.0	0.14	375	0	220	0.00
2	115	50	1800	9.0	0.14	340	10	200	0.04
3	115	50	1800	9.0	0.14	300	20	180	0.08
4	115	50	1800	9.0	0.14	255	30	150	0.12
5	115	50	1500	5.0	0.09	310	0	180	0.00
6	115	50	1500	6.0	0.10	280	7	165	0.03
7	115	50	1500	6.0	0.10	255	14	150	0.06
8	115	50	1500	6.0	0.10	215	21	125	0.08

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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