

W1G172-EC95-01

EC axial fan - ESM

sickled blades (S series)

ESM wall ring

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

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Nominal data

Type	W1G172-EC95-01		
Motor	M1G055-BD		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed	min ⁻¹	2500	1700
Power input	W	21	-
Current draw	A	0.3	
Max. back pressure	Pa	60	
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 impeller	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
Insulation class	"B"
Humidity class	F3-1
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	- Over-temperature protected motor - Soft start - Speed selection max/min
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
Cable exit	Lateral
Protection class	II
Product conforming to standard	EN 60335-1; CE
Approval	CSA C22.2 Nr.77; EAC; UL 2111; VDE

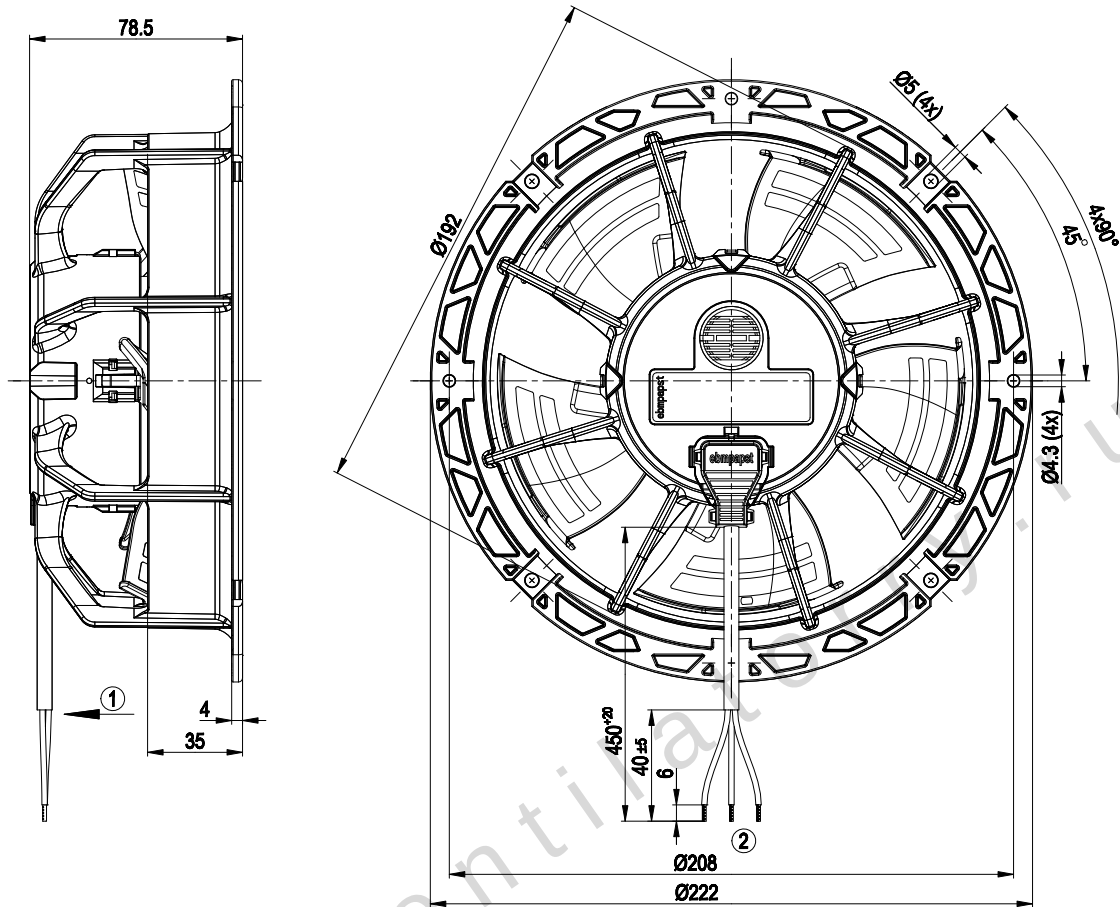
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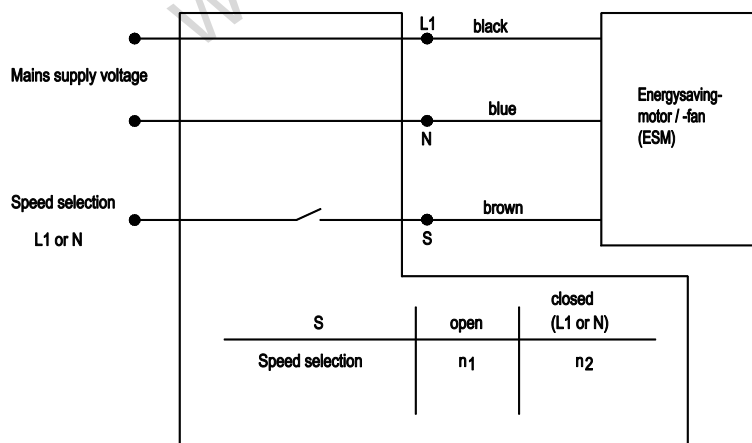
ESM wall ring

Product drawing



- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Connection line AWG20; 3 x brass lead tips crimped |

Connection screen



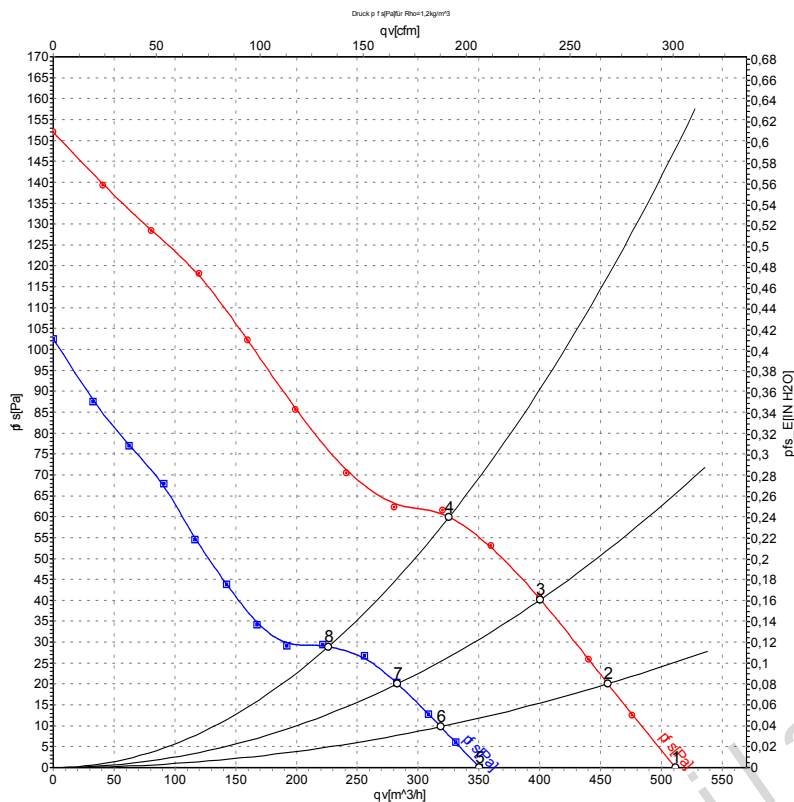
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Charts: Air flow 50 Hz



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: L_{WA} measured as per ISO 13347 /
L_{pA} 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

	Stage	U	f	n	P _{ed}	I	qv	P _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	2	115	50	2500	20	0.28	510	0
2	2	115	50	2500	21	0.30	455	20
3	2	115	50	2500	21	0.30	400	40
4	2	115	50	2500	21	0.30	325	60
5	2	115	50	1700	9.0	0.14	350	0
6	2	115	50	1700	10.0	0.16	320	10
7	2	115	50	1700	11	0.16	285	20
8	2	115	50	1700	10.0	0.16	225	29

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · P_{fs} = Pressure increase