W1G230-EB89-17

EC axial fan - ESM

sickled blades (S series), single inlet

ESM wall ring



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**W1G230-EB89-17**
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}	1000	1500
Power input	W		26
Current draw	A		0.2
Max. back pressure	Pa		36
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	230 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; 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
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

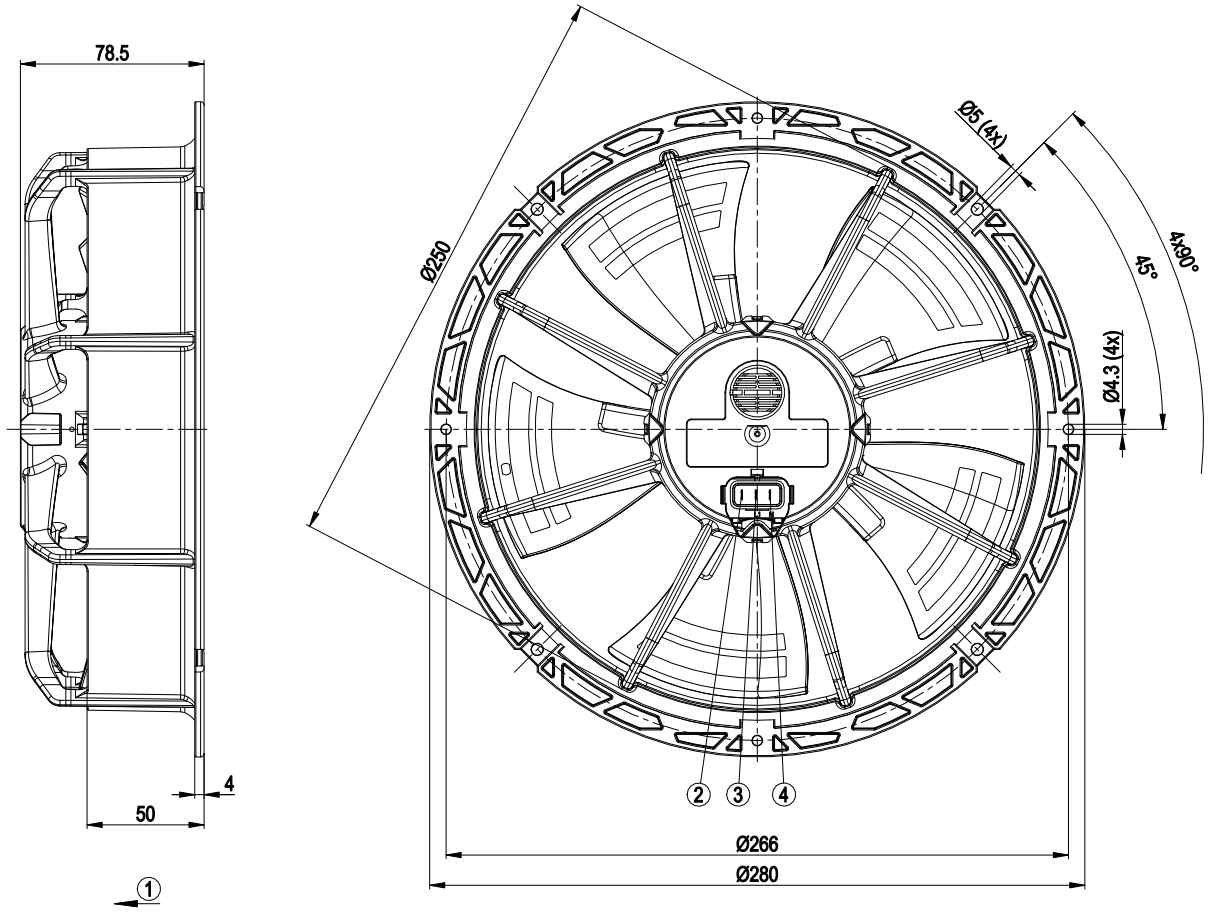
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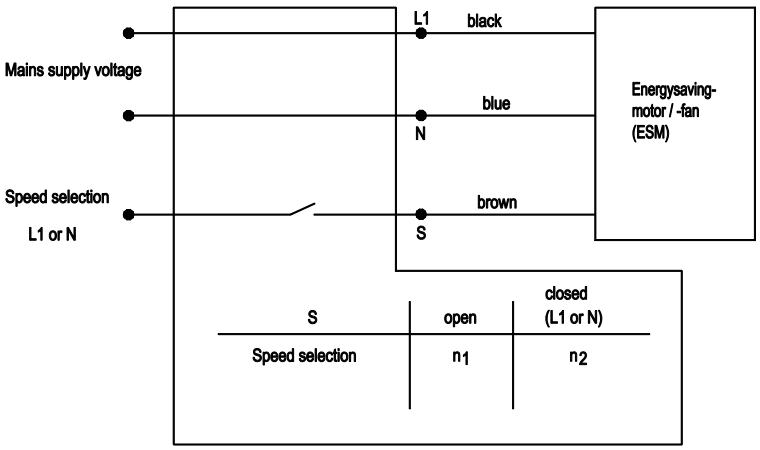
ESM wall ring

Product drawing



1	Direction of air flow "V"
2	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



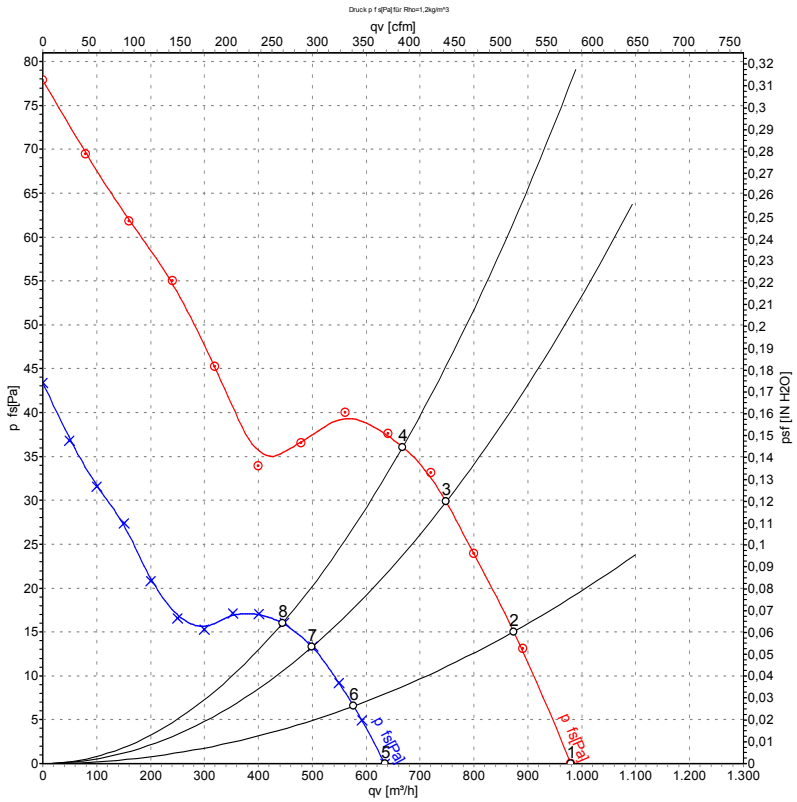
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Charts: Air flow 50 Hz



Measurement: LU-112479-1
Measurement: LU-112480-1

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	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	inH2O
1	230	50	1500	24	0.19	51	58	980	0	575	0.00
2	230	50	1500	25	0.19	51	58	875	15	515	0.06
3	230	50	1500	25	0.19	50	58	750	30	440	0.12
4	230	50	1500	26	0.20	49	57	670	36	395	0.14
5	230	50	1000	10	0.09	39	48	635	0	375	0.00
6	230	50	1000	10	0.09	39	48	575	7	340	0.03
7	230	50	1000	11	0.10	40	48	500	14	295	0.06
8	230	50	1000	11	0.10	40	48	445	16	260	0.06

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_V = Air flow
p_{fs} = Pressure increase

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