W1G300-BB23-01

EC axial fan - ESM

sickled blades (S series)

ESM wall ring with guard grille



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Nominal data

Type	**W1G300-BB23-01**
Motor	**M1G055-BI**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed (rpm)	min^{-1}	1300	900
Power input	W	35	
Current draw	A	0.5	
Max. back pressure	Pa	35	
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	1.75 kg
Size	300 mm
Motor size	55
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	IP55
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
Condensation drainage holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Speed selection max/min - Soft start - Over-temperature protected motor
Speed steps	2
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Lateral
Protection class	II
Product conforming to standard	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	VDE; CSA C22.2 no. 77; EAC; UL 1004-3

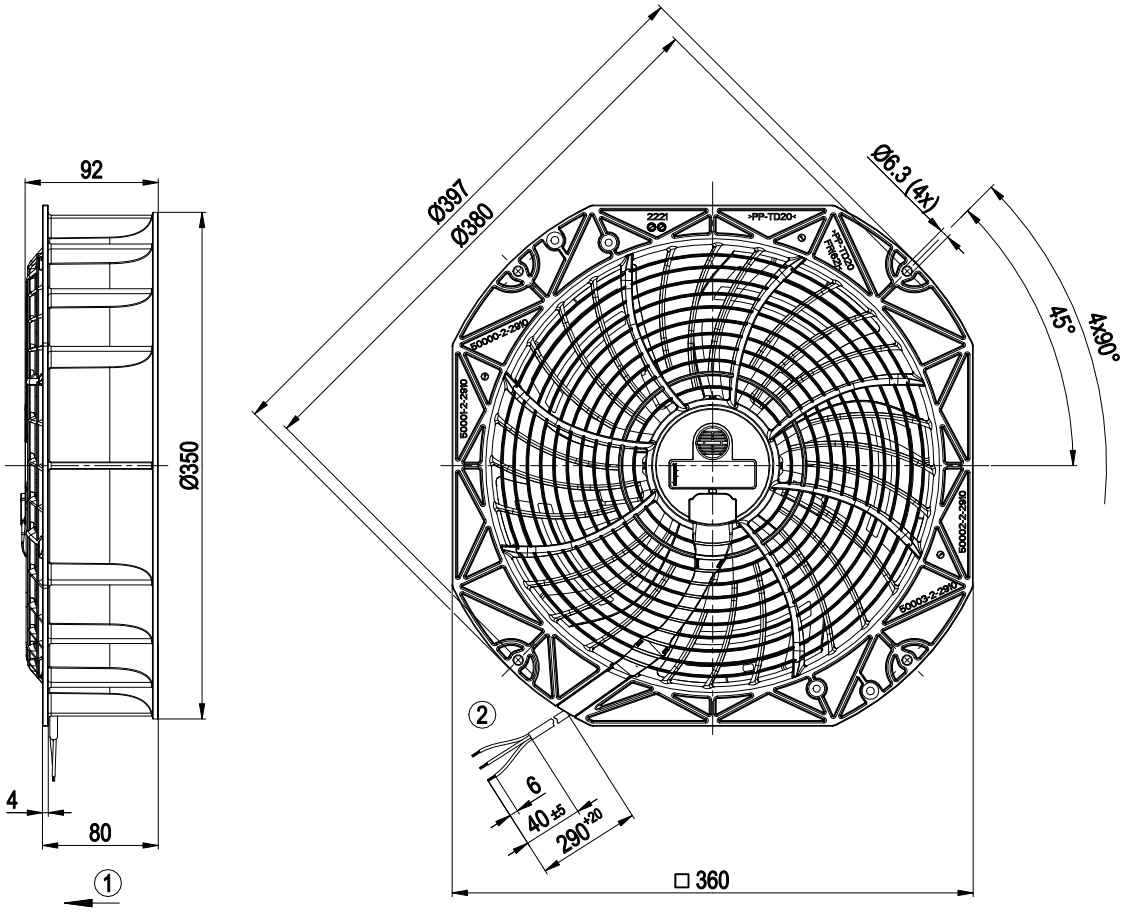
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Product drawing



1	Direction of air flow "V"
2	Connection line PVC AWG20
	3x lead tip

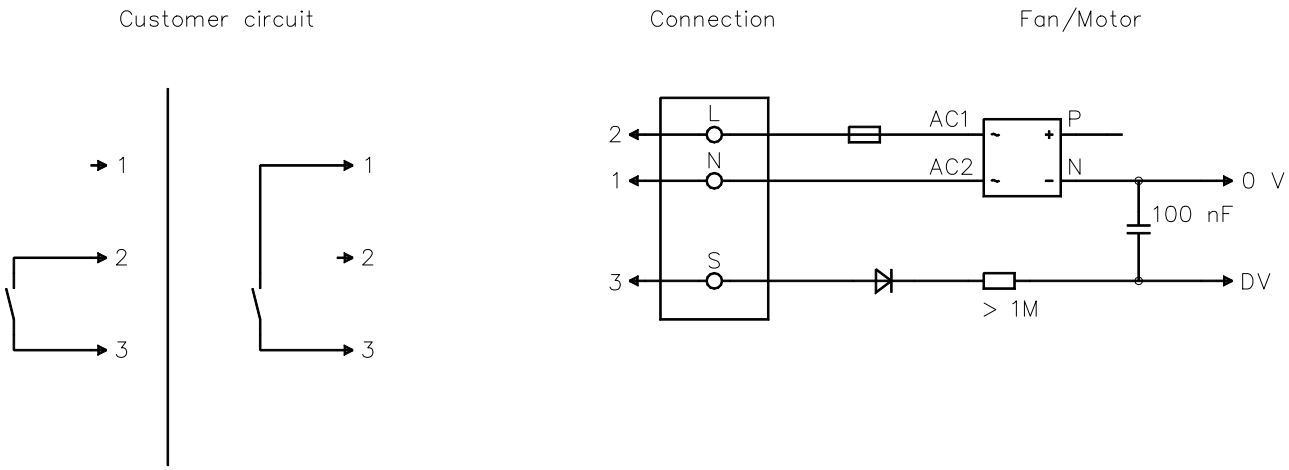
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
1	N		blue	Neutral conductor
2	L		black	Power supply 115 VAC, 50-60 Hz, see type plate for voltage range
3	S		brown	Speed selection: Switch open = speed 1 (fast), switch closed = speed 2 (slow)

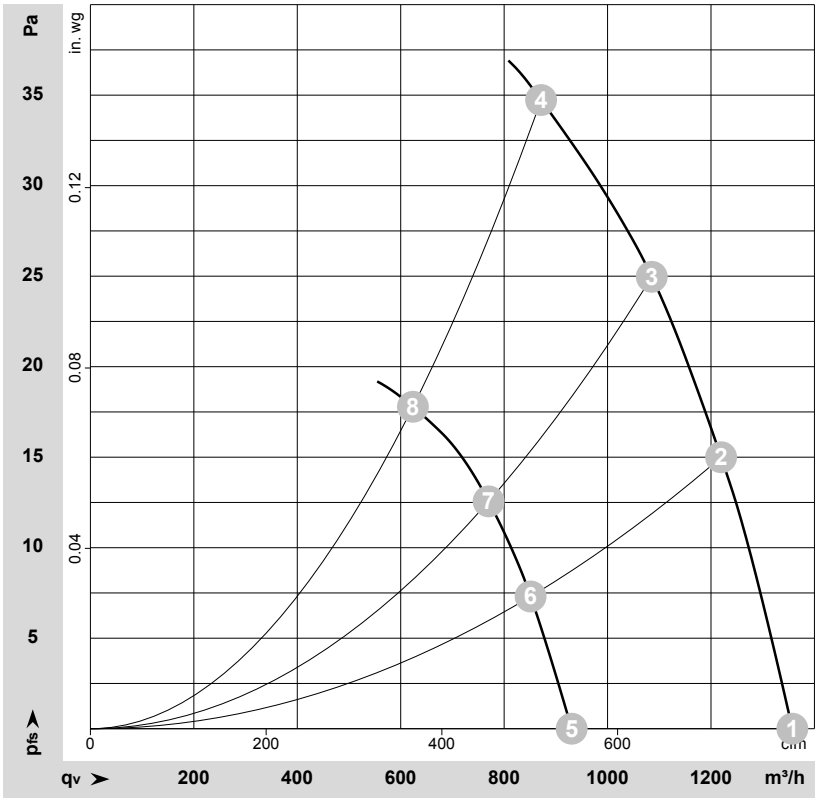
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-110932-1
Measurement: LU-110939-1

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

	Stage	Conn.	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	in. wg
1	1	1~	115	50	1300	28	0.41	52	58	1355	0	800	0.00
2	1	1~	115	50	1300	31	0.46	52	58	1220	15	720	0.06
3	1	1~	115	50	1300	32	0.47	51	57	1085	25	640	0.10
4	1	1~	115	50	1300	35	0.50	53	59	870	35	515	0.14
5	2	1~	115	50	900	12	0.22	43	50	930	0	550	0.00
6	2	1~	115	50	900	14	0.25	42	49	850	7	500	0.03
7	2	1~	115	50	900	15	0.26	42	49	770	13	455	0.05
8	2	1~	115	50	900	15	0.27	43	50	625	18	365	0.07

Conn. = Connection · 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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