



W1G130-AA25-01 ebmpapst Datasheet

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Nominal data

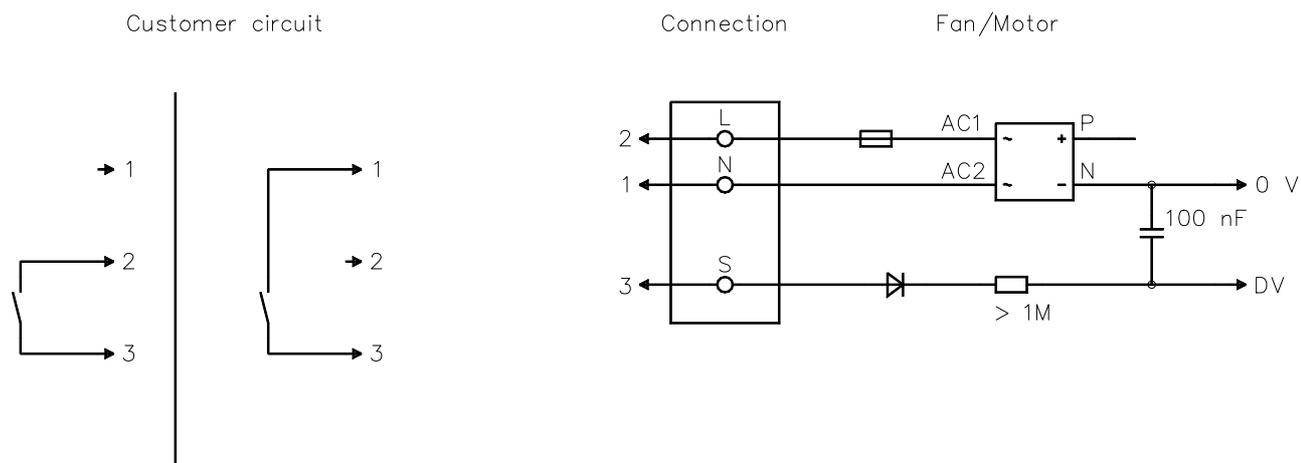
Type	W1G130-AA25-01		
Motor	M1G055-AI		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	ml
Speed (rpm)	min ⁻¹	3200	2800
Power consumption	W	24	
Current draw	A	0.19	
Max. back pressure	Pa	90	
Max. back pressure	in. wg	0.36	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	60	70

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Technical description

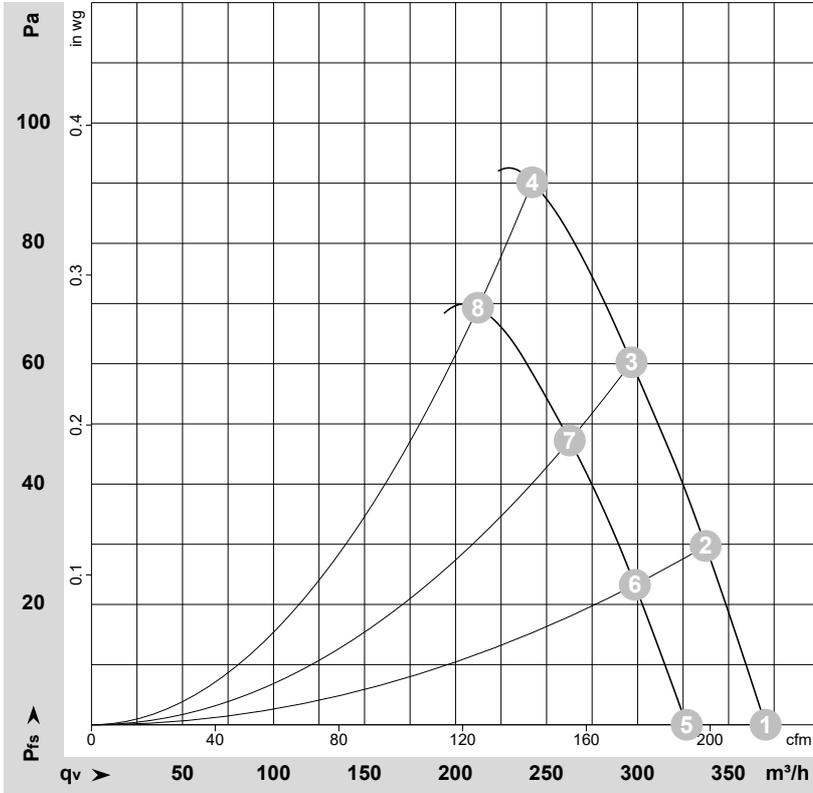
Weight	0.75 kg
Size	130 mm
Motor size	55
Impeller material	PA plastic
Fan housing material	PP plastic
Number of blades	7
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
Ambient temperature note	Occasional start-up between -40°C and -25°C is permissible. For continuous operation at temperatures below -25°C (e.g. refrigeration applications) we recommend our fan design with special low-temperature bearings.
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. - Soft start - Thermal overload protection for motor
Speed levels	2
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 0.25 mA
Motor protection	Thermal switch auto reset, internally connected
With cable	Lateral
Protection class assignment	II; The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Safety class of the permissible refrigerants according to EN378 / ISO5149-1	A3/B3
Maximum surface temperature	225 °C
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; UKCA; CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	VDE; CCC; UL 1004-3 + 60730-1; EAC; CSA C22.2 No. 77 + CAN/CSA-E60730-1

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	N		blue	Neutral conductor
2	L		black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
3	S		brown	Speed selection: switch open speed 1 (fast), switch closed speed 2 (slow)

Curves: Air performance 50 Hz



$\rho = 1.177 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-139739-1
Date: 2012-01-18
Housing: 13030-2-2910

Measurement: LU-140010-1
Date: 2012-01-26
Housing: 13030-2-2910

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

	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	230	50	3200	23	0.19	55	63	370	0	220	0.00
2	230	50	3200	24	0.19	53	61	335	30	200	0.12
3	230	50	3200	24	0.19	51	60	295	60	175	0.24
4	230	50	3200	24	0.19	54	63	240	90	140	0.36
5	230	50	2800	16	0.13	51	60	325	0	190	0.00
6	230	50	2800	16	0.13	50	58	300	24	175	0.10
7	230	50	2800	16	0.13	48	57	265	47	155	0.19
8	230	50	2800	16	0.13	53	61	210	70	125	0.28

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