K1G200-AA82-20

EC diagonal module - ESM

sickle-shaped blades (S series), single-intake

with support bracket



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Nominal data

Type	**K1G200-AA82-20**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	115	115
Nominal voltage range	VAC	100 .. 240	100 .. 240
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed (rpm)	min^{-1}	1400	1200
Power consumption	W	11	
Current draw	A	0.17	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	50	50

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

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Technical description

Weight	1.1 kg
Size	200 mm
Motor size	55
Blade material	PP plastic
Support bracket material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
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, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Speed setting input (230 V) - Power limiter - Motor current limitation - Soft start - Thermal overload protection for motor
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)
Protection class	II
Conformity with standards	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	UL 1004-3; VDE; CSA C22.2 No. 77

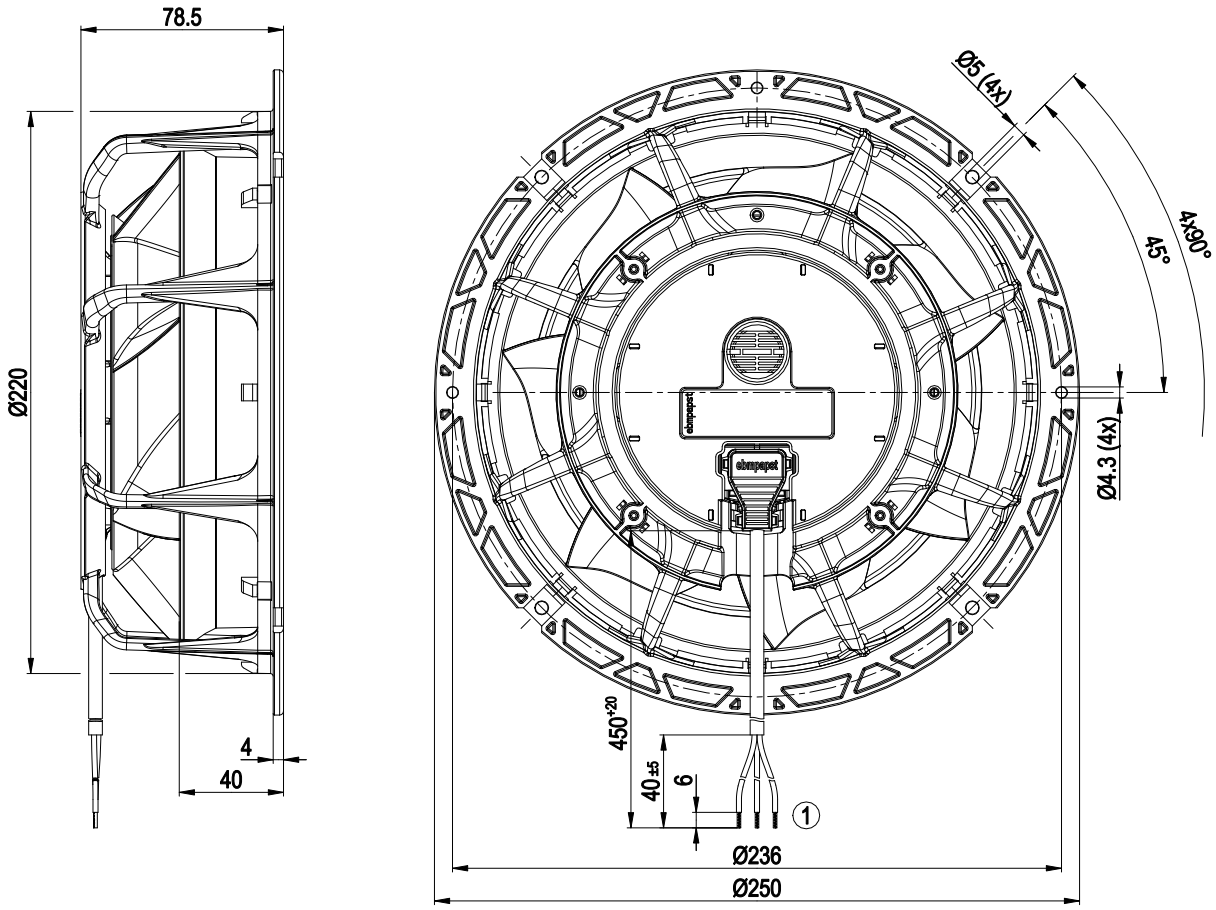
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Product drawing



1	Cable PVC AWG20		3x splice

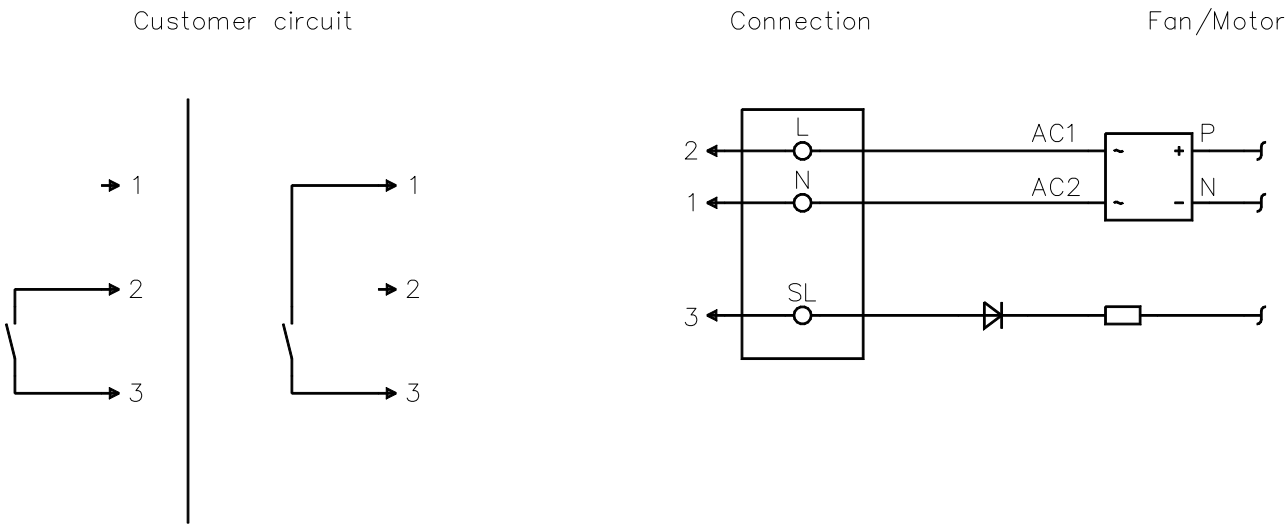
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	N		blue	Power supply, neutral conductor, see nameplate for voltage range
2	L		black	Power supply, phase, see nameplate for voltage range
3	SL		brown	Speed selection: switch open speed 1, switch closed speed 2

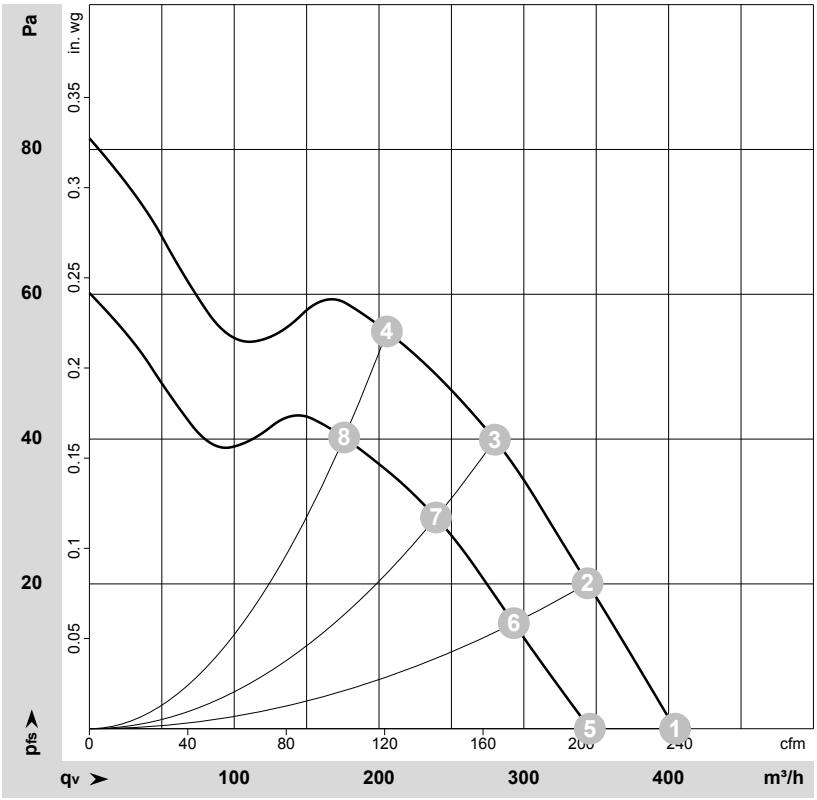
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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-196847-1
Measurement: LU-196861-1

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

	Stage	Wired	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	1400	9.0	0.14	49	57	405	0	240	0.00
2	1	1~	115	50	1400	10.0	0.15	47	55	345	20	200	0.08
3	1	1~	115	50	1400	11	0.17	46	54	280	40	165	0.16
4	1	1~	115	50	1400	11	0.17	46	54	205	55	120	0.22
5	2	1~	115	50	1200	6.0	0.10	45	53	345	0	205	0.00
6	2	1~	115	50	1200	7.0	0.11	43	51	295	15	170	0.06
7	2	1~	115	50	1200	7.0	0.11	42	50	240	29	140	0.12
8	2	1~	115	50	1200	7.0	0.11	42	50	175	40	105	0.16

Wired = Wiring · 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

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