K1G200-AA73-02

EC diagonal module - ESM

with support bracket

K1G200-AA73-02 ebmpapst Datasheet

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Nominal data

Type	**K1G200-AA73-02**		
Motor	**M1G055-BD**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed (rpm)	min^{-1}	2000	1500
Power consumption	W	35	
Current draw	A	0.3	
Max. back pressure	Pa	120	
Max. back pressure	in. wg	0.48	
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	1.09 kg
Size	200 mm
Motor size	55
Impeller material	PA 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) - ESM+ expandable with plug-in module - 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
Protection class assignment	II; The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE; UKCA
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	UL 1004-3; EAC; CCC; VDE; CSA C22.2 No. 77

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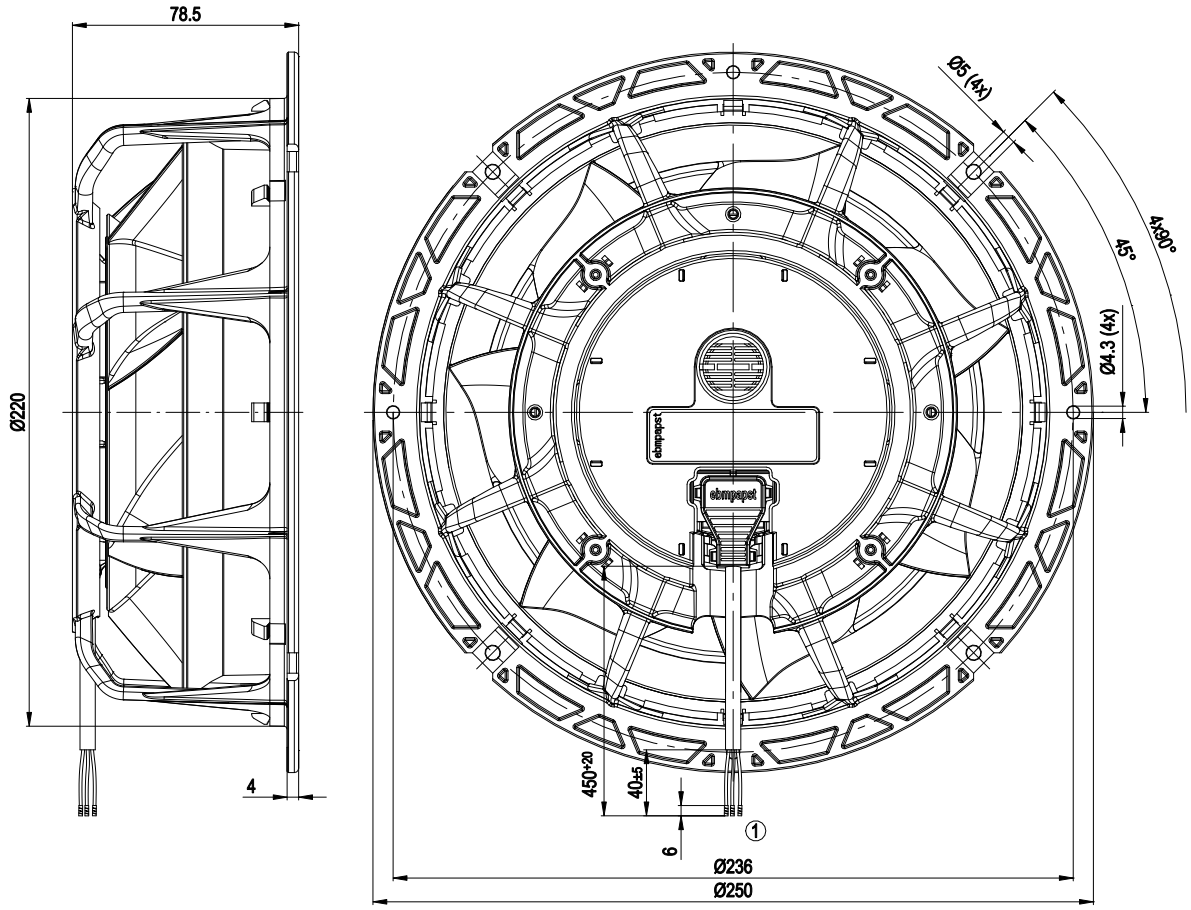
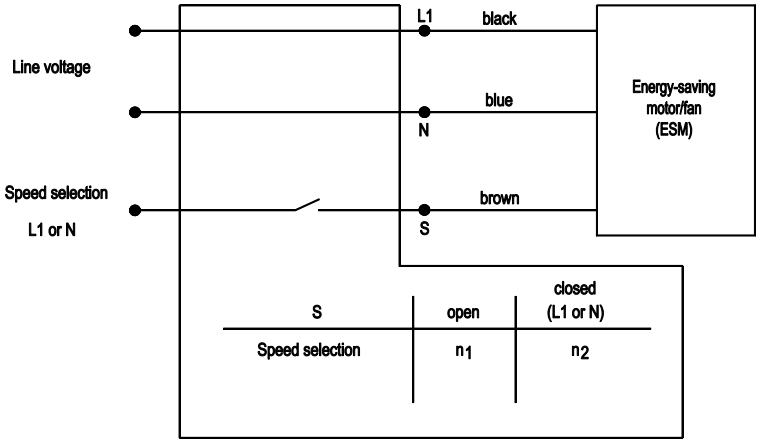
Product drawing



1	Cable AWG20, 3x crimped splices

Connection diagram



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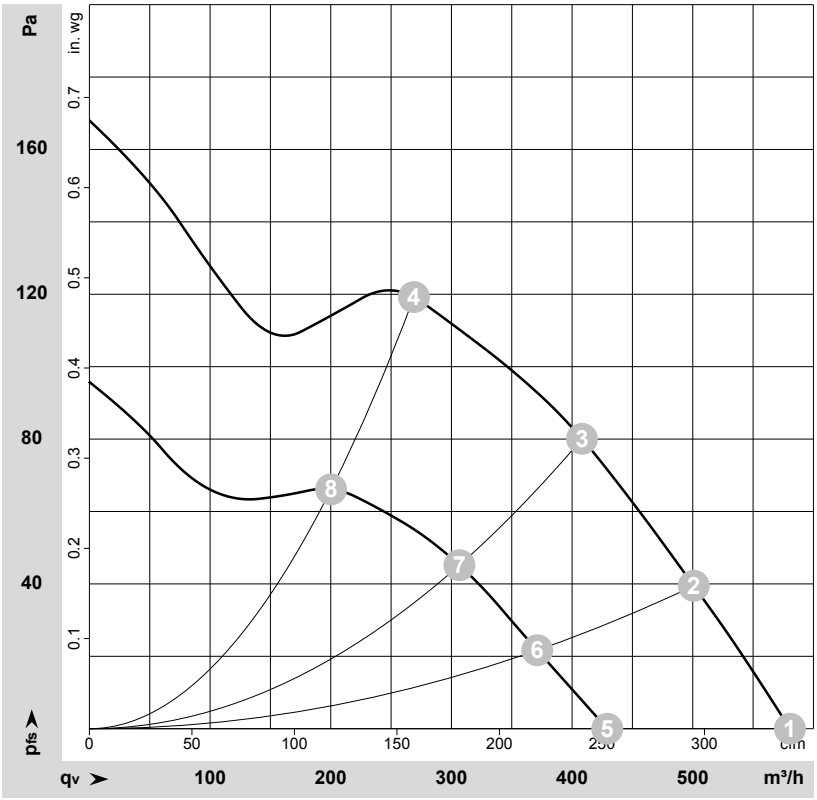
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-123220-1
Date: 2009-12-15

Measurement: LU-123224-1
Date: 2009-12-15

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~	230	50	2000	31	0.24	56	63	580	0	340	0.00
2	1	1~	230	50	2000	33	0.26	55	62	500	40	295	0.16
3	1	1~	230	50	2000	35	0.30	55	62	410	80	240	0.32
4	1	1~	230	50	2000	35	0.27	57	64	270	120	160	0.48
5	2	1~	230	50	1500	16	0.13	48	56	430	0	250	0.00
6	2	1~	230	50	1500	19	0.14	48	55	370	22	220	0.09
7	2	1~	230	50	1500	20	0.17	47	54	305	45	180	0.18
8	2	1~	230	50	1500	18	0.13	49	57	200	67	120	0.27

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