K1G200-AB73-10

EC diagonal module - ESM

with support bracket

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Nominal data

Type	**K1G200-AB73-10**
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}	1800	1100
Power consumption	W	22	6
Current draw	A	0.18	0.05
Max. back pressure	Pa	85	32
Max. back pressure	inH2O	0.34	0.13
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

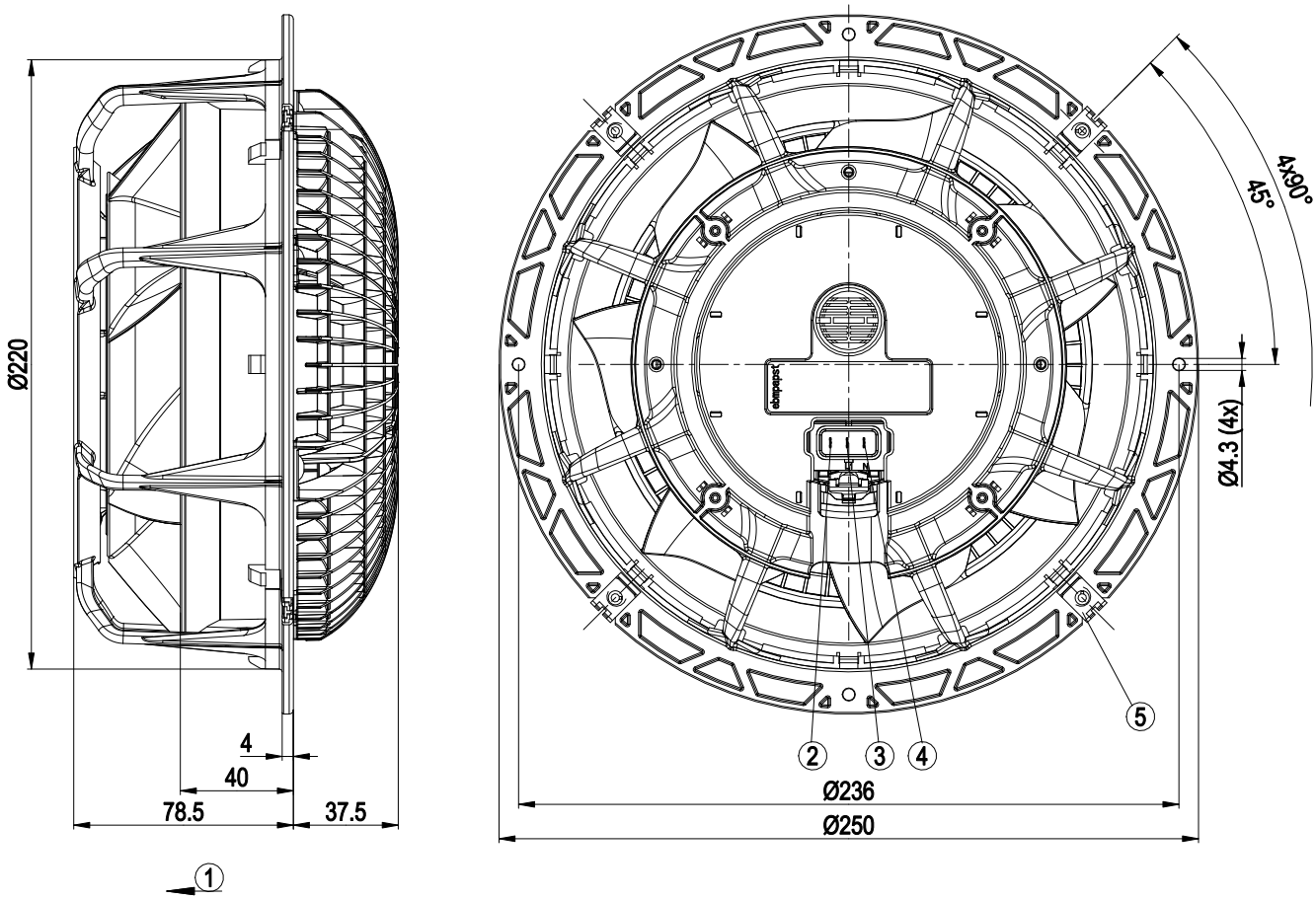
Weight	1.2 kg
Fan size	200 mm
Rotor surface	Cast in PA plastic
Impeller material	PA plastic
Support bracket material	PA plastic
Guard grille material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (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	On rotor side
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)
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	II
Conformity with standards	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	VDE; CSA C22.2 No. 77; UL 1004-3

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Product drawing



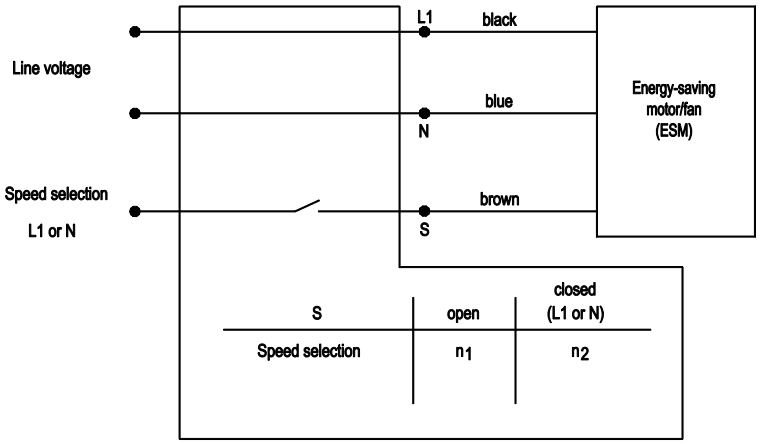
1	Airflow direction "V"
2	PIN S, speed selection (flat plug 2.8 x 0.5)
3	PIN L1, phase (flat plug 2.8 x 0.5)
4	PIN N, neutral conductor (flat plug 2.8 x 0.5)
5	4x sheet metal nut for thread EN ISO 1478-ST4.2

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Connection diagram

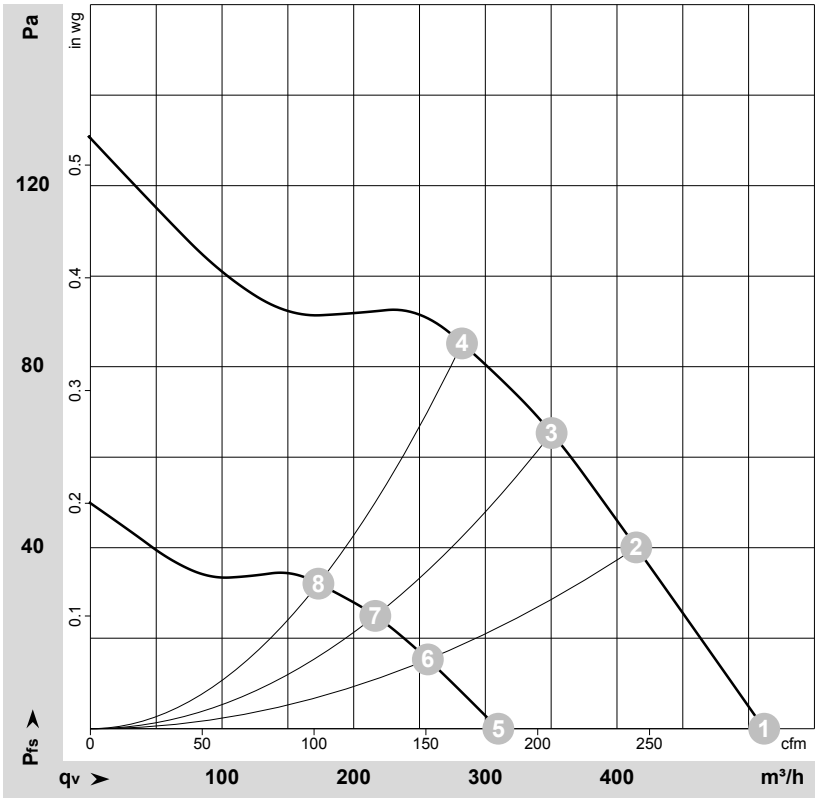


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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-182827-1

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

	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	1800	19	0.16	54	62	510	0	300	0.00
2	230	50	1800	20	0.17	53	61	415	40	245	0.16
3	230	50	1800	22	0.18	53	61	350	65	205	0.26
4	230	50	1800	21	0.18	54	61	280	85	165	0.34
5	230	50	1100	5.0	0.05	41	49	310	0	180	0.00
6	230	50	1100	6.0	0.05	41	49	255	15	150	0.06
7	230	50	1100	6.0	0.05	41	49	215	25	125	0.10
8	230	50	1100	6.0	0.05	41	49	175	32	100	0.13

U = Power supply · 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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