K1G200-AA73-14

EC centrifugal module - ESM

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

with support bracket



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Nominal data

Type	**K1G200-AA73-14**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data			ml
Speed	min^{-1}	1500	2000
Power consumption	W	-	35
Current draw	A		0.3
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
Impeller material	PA plastic
Support bracket material	PA plastic
Inlet nozzle 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	None, open rotor
Mode	S1
Motor storage	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
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	II
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 77; UL 2111; VDE

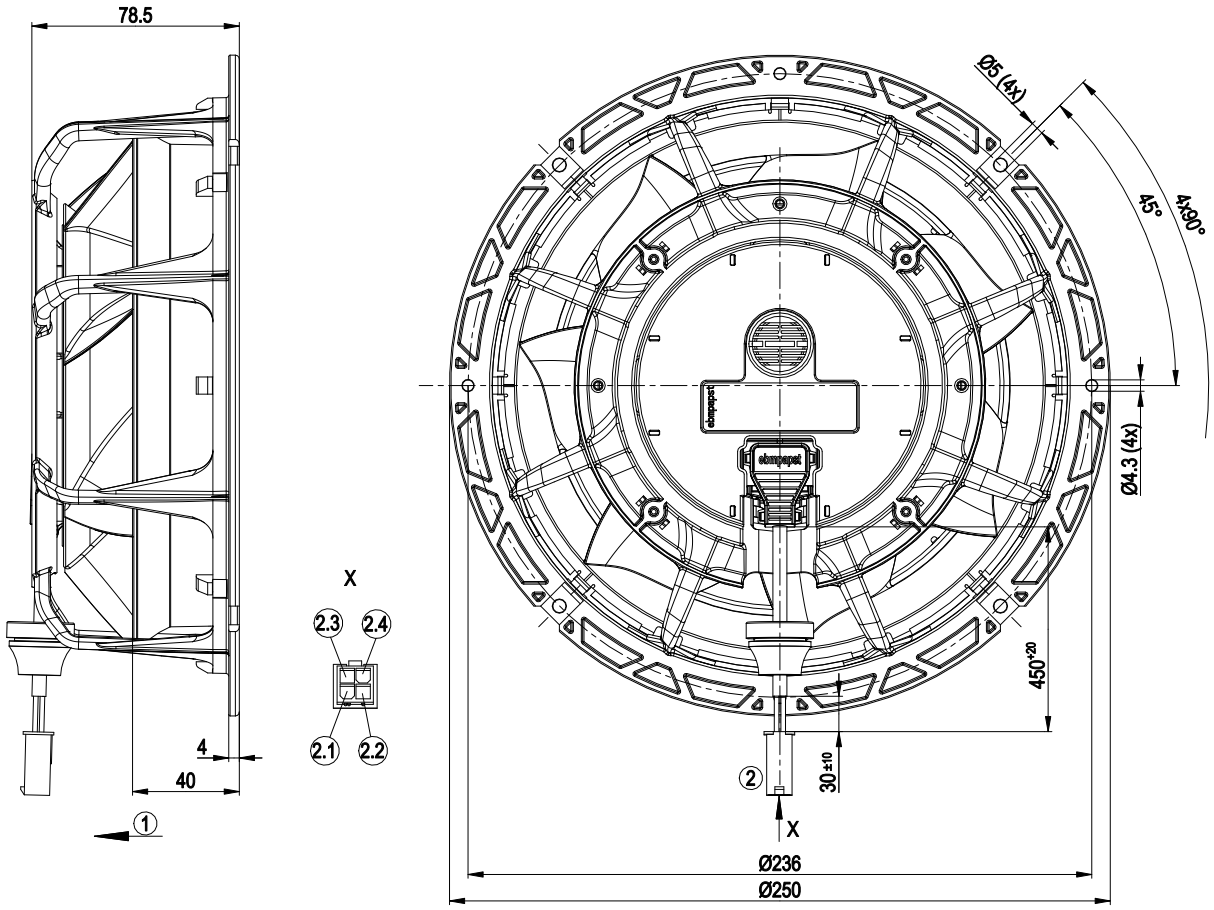
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Product drawing



1	Direction of air flow "V"
2	Cable PVC AWG20, 1x 4-pole connector housing Molex 46993-0411, 3x plug pin Molex 39-00-0041
2.1	N (blue)
2.2	L (black)
2.3	not used
2.4	Speed selection (brown)

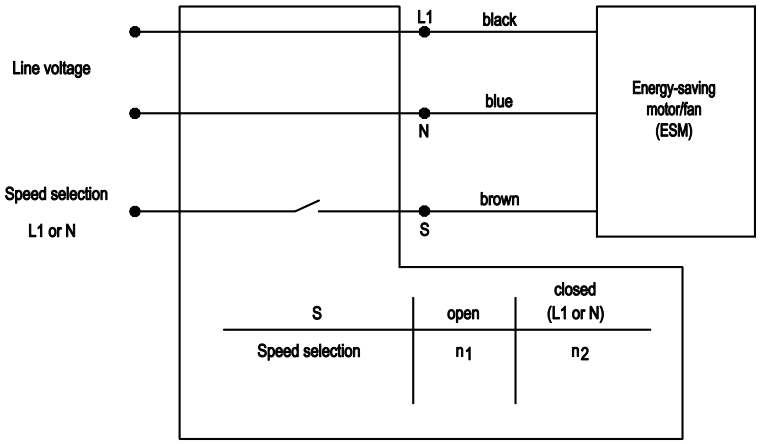
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Connection diagram



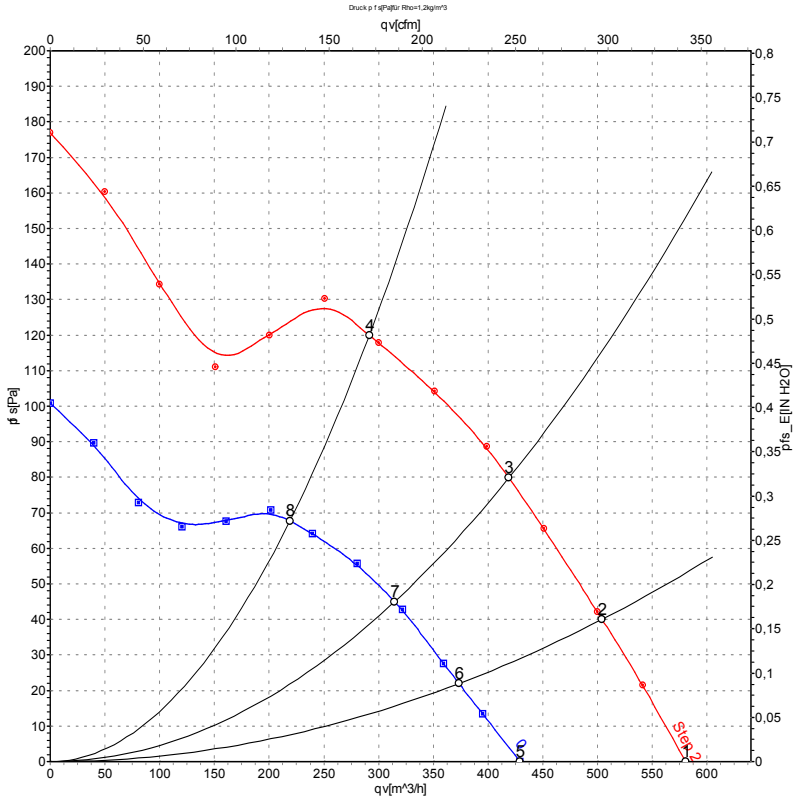
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Curves: Air performance 50 Hz



Measurement: LU-123220
Measurement: LU-123224

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	U	f	n	P_{ed}	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	1	230	50	2000	31	0.24	580	0
2	1	230	50	2000	33	0.26	505	40
3	1	230	50	2000	35	0.30	420	80
4	1	230	50	2000	35	0.27	290	120
5	2	230	50	1500	16	0.13	430	0
6	2	230	50	1500	19	0.14	375	22
7	2	230	50	1500	20	0.18	315	45
8	2	230	50	1500	18	0.14	220	68

U = Power supply · f = Frequency · n = Speed · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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