

K1G200-AA89-13

# EC diagonal module

sickled blades (S series), single inlet  
with support bracket

K1G200-AA89-13 ebmpapst Datasheet

[sales@fansco.com](mailto:sales@fansco.com)

[www.fansco.com](http://www.fansco.com)

Limited partnership · Headquarters Mulfingen  
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen  
County court Stuttgart · HRB 590142

## Nominal data

Type	K1G200-AA89-13		
Motor	M1G055-BD		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz		50/60
Type of data definition			ml
Speed (rpm)	min <sup>-1</sup>	1400	1600
Power input	W		15
Current draw	A		0.13
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	50

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
Subject to alterations



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## Technical features

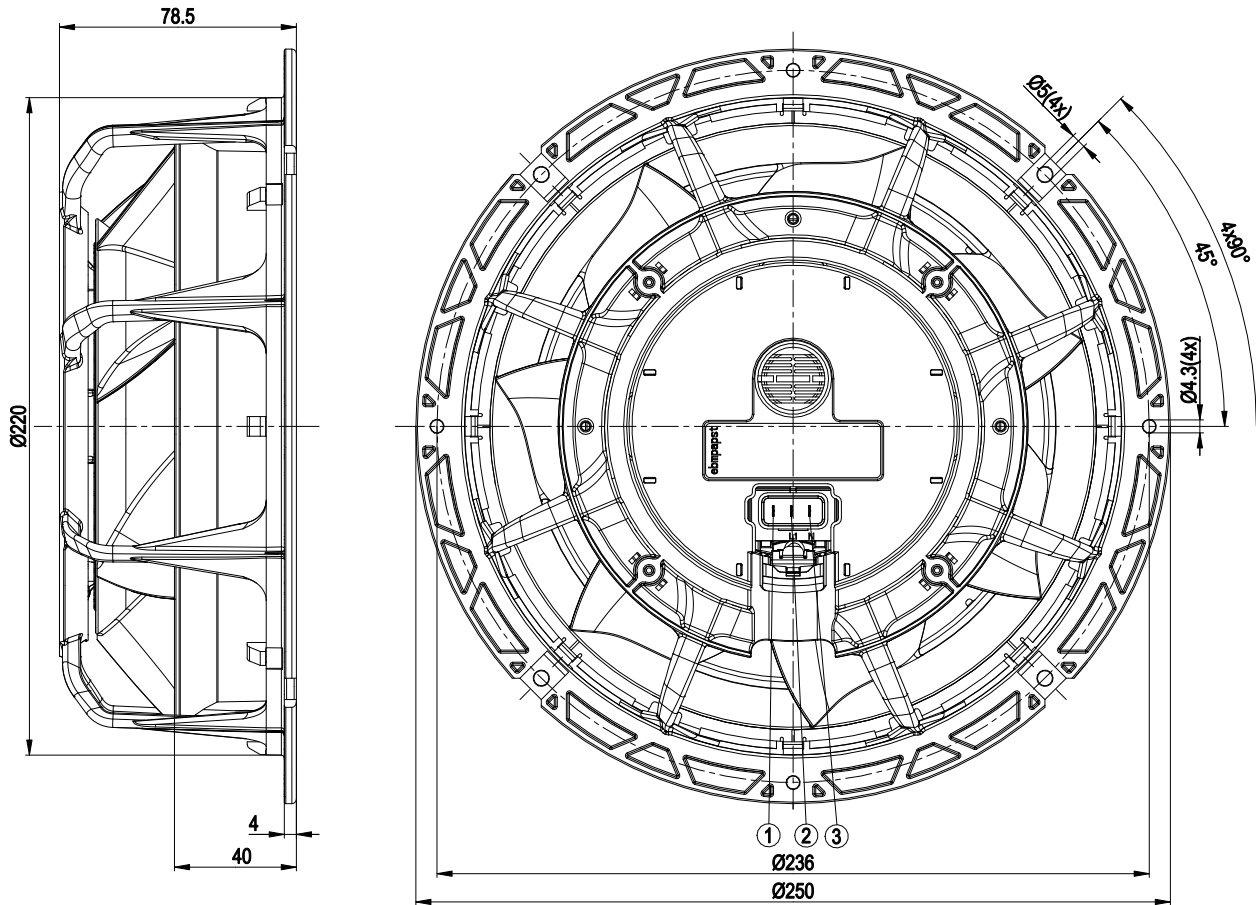
<b>Mass</b>	1.2 kg
<b>Size</b>	200 mm
<b>Material of impeller</b>	PA plastic
<b>Material of support bracket</b>	PA plastic
<b>Number of blades</b>	7
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 54; Only with suitable connector, which has to be fitted by the customer
<b>Insulation class</b>	"B"
<b>Humidity (F)/environmental protection class (H)</b>	H1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	None, open rotor
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Speed adjustment input (230 V)</li> <li>- ESM+ extensible with plug-in module</li> <li>- Soft start</li> <li>- Over-temperature protected motor</li> </ul>
<b>Speed steps</b>	2
<b>EMC interference immunity</b>	Acc. to EN 61000-6-2 (industrial environment)
<b>EMC harmonics</b>	Acc. to EN 61000-3-2/3
<b>EMC interference emission</b>	Acc. to EN 61000-6-3 (household environment)
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Protection class</b>	II
<b>Product conforming to standard</b>	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
<b>Approval</b>	CSA C22.2 No.77; VDE; CCC; UL 1004-3



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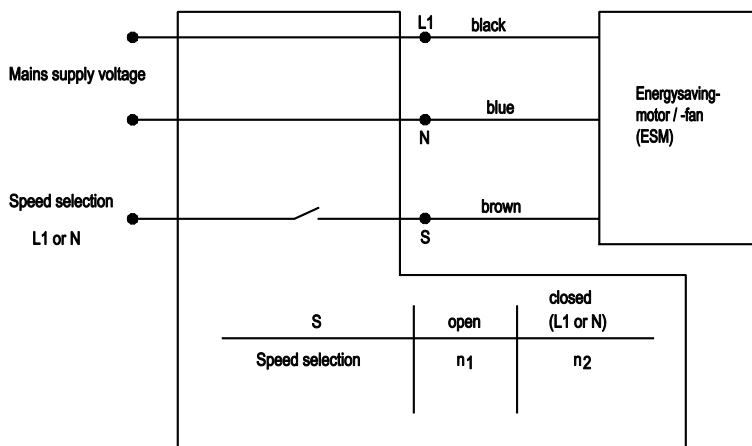
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## Product drawing

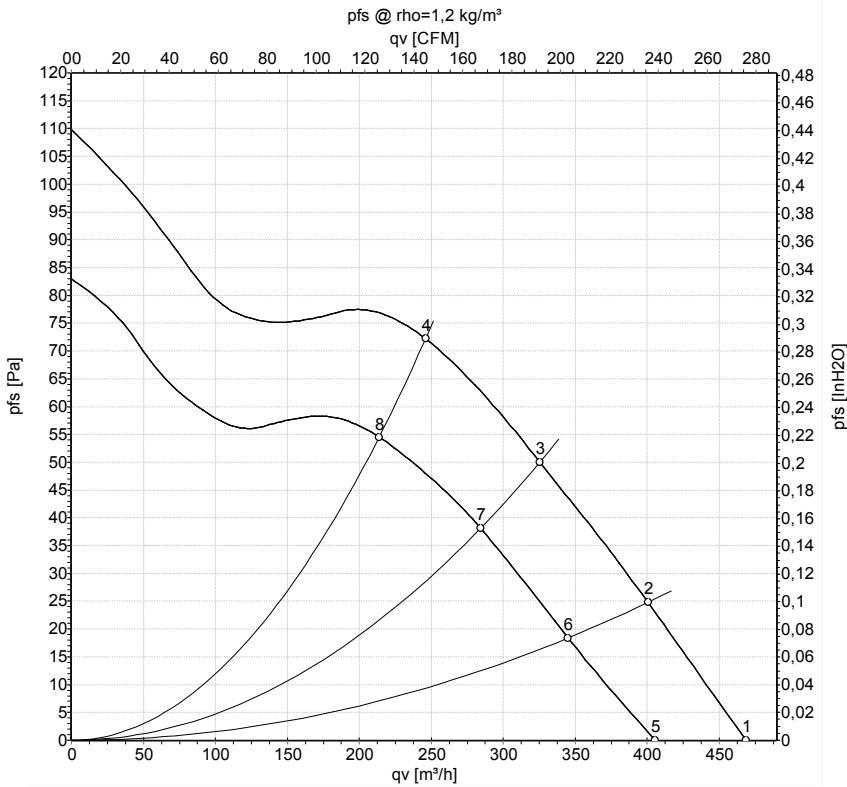


- 1 PIN S, speed selection (flat plug 2.8x0.5)
- 2 PIN L1, phase (flat plug 2.8x0.5)
- 3 PIN N, neutral conductor (flat plug 2.8x0.5)

## Connection screen



## Charts: Air flow 50 Hz



Measurement: LU-162194-1  
 Measurement: LU-152446-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L<sub>WA</sub> measured as per ISO 13347 / L<sub>pA</sub> measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

	U	f	n	P <sub>ed</sub>	I	q <sub>v</sub>	p <sub>fs</sub>	q <sub>v</sub>	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	inH <sub>2</sub> O
1	230	50	1600	14	0.12	470	0	275	0.00
2	230	50	1600	15	0.13	400	25	235	0.10
3	230	50	1600	15	0.13	325	50	190	0.20
4	230	50	1600	15	0.13	245	72	145	0.29
5	230	50	1400	9.0	0.08	405	0	240	0.00
6	230	50	1400	10.0	0.08	345	18	205	0.07
7	230	50	1400	10.0	0.09	285	38	165	0.15
8	230	50	1400	10.0	0.09	215	55	125	0.22

U = Supply voltage · f = Frequency · n = Speed (rpm) · P<sub>ed</sub> = Power input · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

