K3G200-AG16-I4

Siemens AG

EC centrifugal fan

backward-curved, single-intake

with housing and mounting bracket

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Amtsgericht (court of registration) Stuttgart · HRA 590344

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Nominal data

Type	**K3G200-AG16-I4**
Motor	**M3G084-DF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	195 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	5390
Power consumption	W	450
Current draw	A	2
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	49.5	35.7
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		63.8	50
05 Variable speed drive		Yes	

09 Power consumption P_{ed}	kW	0.43
09 Air flow q_v	m^3/h	780
09 Pressure increase p_{fs}	Pa	899
10 Speed (rpm) n	min^{-1}	5395
11 Specific ratio*		1.01

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = 1 + p_{fs} / 100 000 Pa

LU-167344

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Technical description

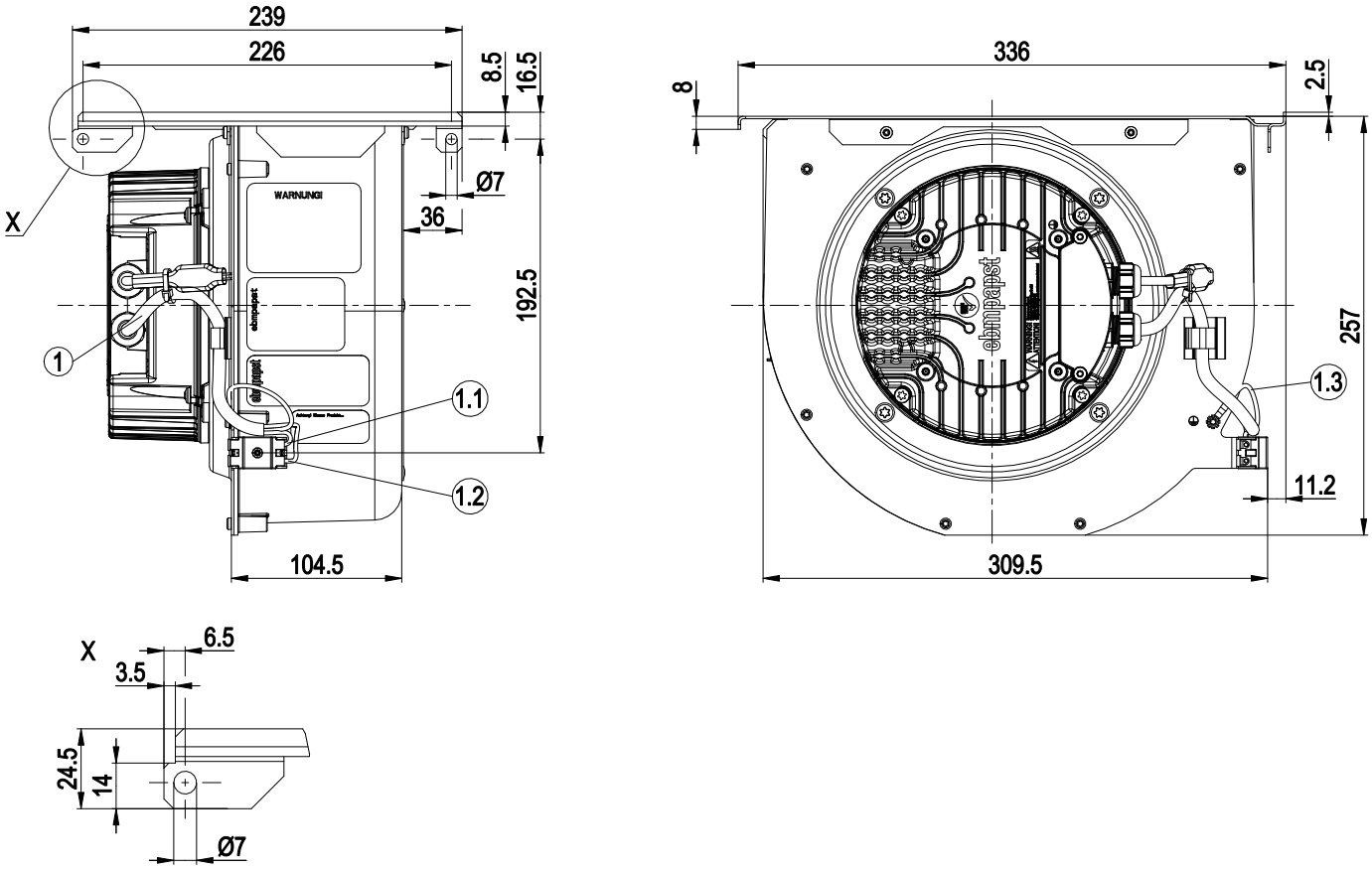
Weight	6.7 kg
Fan size	200 mm
Electronics housing material	Die-cast aluminum
Impeller material	PA plastic
Housing material	PA plastic
Support plate material	Sheet steel, galvanized
Inlet nozzle material	Sheet steel, galvanized
Number of blades	7
Strength	Permitted harmful gas classes 1C3, 2C3 and 3C3 according to EN 60721-3-1:1997
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F3-1
Ambient temperature note	Occasional start-up between -40°C and -25°C is permissible. For continuous operation at temperatures below -25°C (e.g. refrigeration applications) we recommend our fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Integrated PID controller - Power limiter - Motor current limitation - PFC, active - Soft start - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
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)	<= 3.5 mA
Electrical hookup	With plug
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE
Approval	CCC; UL 1004-7 + 60730; C22.2 No.77 + CAN/CSA-E60730-1
Comment	Permitted maximum operating altitude 2000 m above sea level according to DIN 61800-5-1_2008_Sec. 4.3.6.4.1

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Product drawing



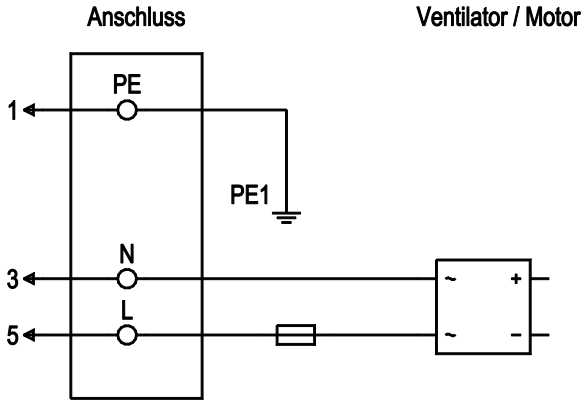
1	Cable PVC AWG18
1.1	N (blue) (N and L connection may also be reversed)
1.2	L (black)
1.3	PE (green/yellow)

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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	PE	green/yellow	Protective earth
1	3	N	blue	Power supply, neutral conductor
1	5	L	black	Power supply, phase

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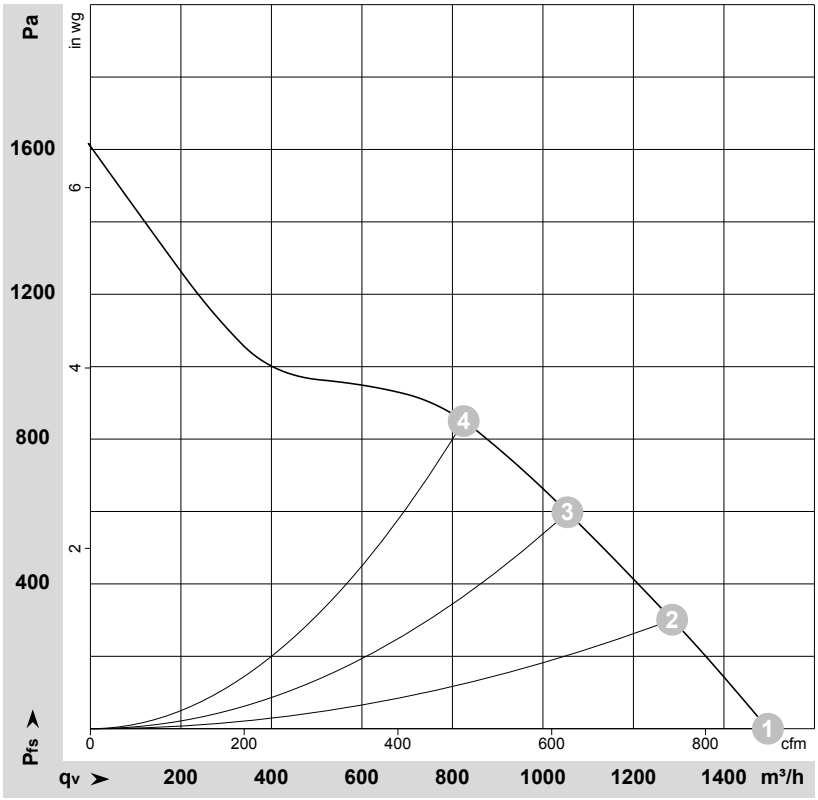
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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-167344-1

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	in. wg
1	230	50	5375	427	1.91	83	87	1500	0	885	0.00
2	230	50	5390	441	1.96	81	86	1285	300	755	1.20
3	230	50	5390	450	2.00	79	84	1055	600	620	2.41
4	230	50	5390	442	1.97	79	85	825	850	485	3.41

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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