K3G200-AG16-I3

Siemens AG

EC centrifugal fan

backward curved, single inlet

with housing and angle bracket

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Nominal data

Type	**K3G200-AG16-I3**	
Motor	**M3G084-DF**	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	195 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	5390
Power input	W	450
Current draw	A	2
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

Data according to ErP directive

		Actual	Request 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 input 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 definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

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

LU-167344

EC centrifugal fan

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Technical features

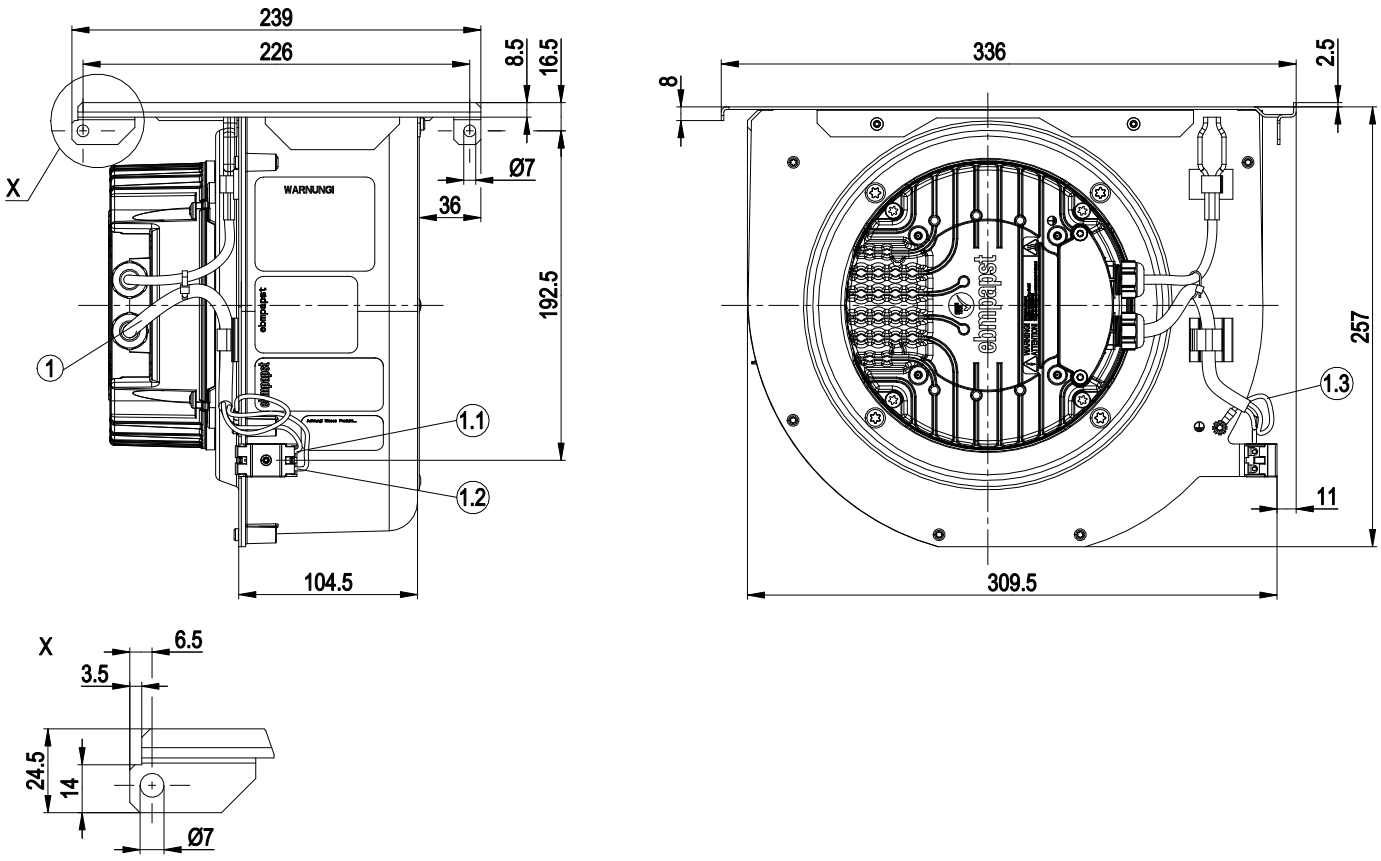
Mass	6.7 kg
Size	200 mm
Material of electronics housing	Die-cast aluminium
Material of impeller	PA plastic
Housing material	PA plastic
Material of mounting plate	Sheet steel, galvanised
Material of inlet nozzle	Sheet steel, galvanised
Number of blades	7
Stability	Permitted harmful gas classes 1C3, 2C3 and 3C3 according to EN60721-3-1:1997
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 55
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F3-1
Note ambient temperature	Occasional start-up between -40°C and -25°C is permissible. For continuous operation at ambient temperatures below -25°C (e.g. refrigeration applications) we recommend our fan version with special low-temperature bearings.
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Integrated PID controller - Output limit - Motor current limit - PFC, active - Soft start - Over-temperature protected electronics / motor - Line undervoltage / phase failure detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	With plug
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	UL 1004-7 + 60730; C22.2 Nr.77 + CAN/CSA-E60730-1; CCC; EAC
Remark	Perm. operating altitude max. 2000 m above sea level as per DIN 61800-5-1_2008_Sect. 4.3.6.4.1

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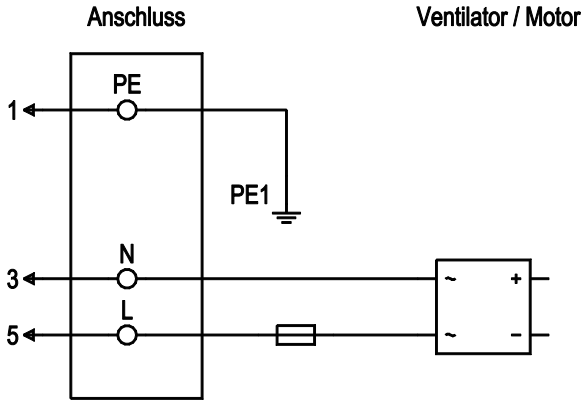
Product drawing



1	Connection line PVC AWG18
1.1	N (blue) (reverse connection of N and L is also permissible)
1.2	L (black)
1.3	PE (green/yellow)

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Connection screen



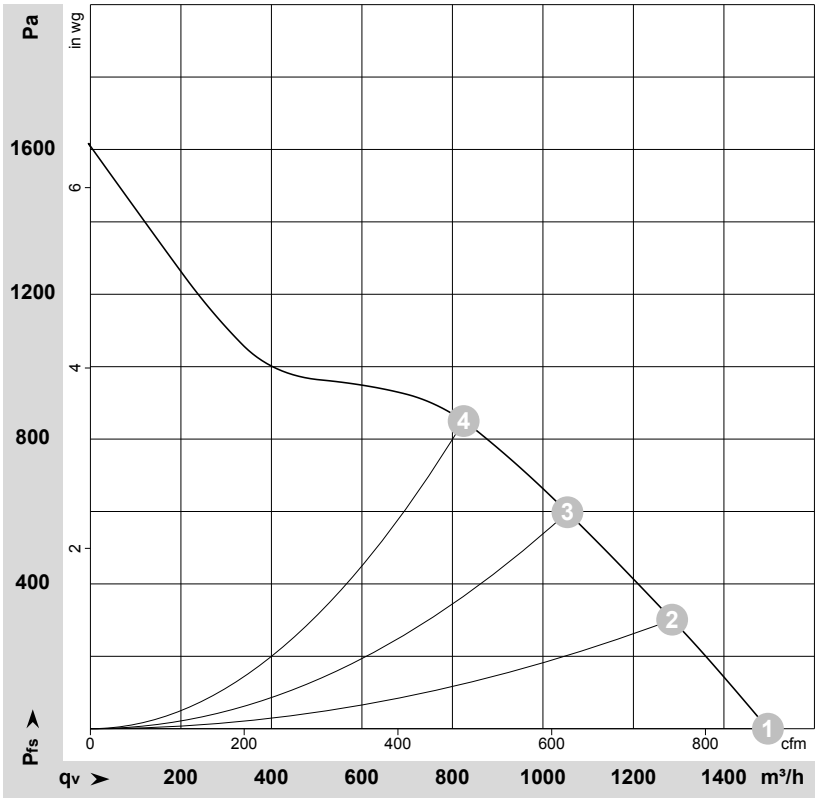
No.	Conn.	Designation	Colour	Function / assignment
1	1	PE	green/yellow	Protective earth
1	3	N	blue	Power supply, neutral conductor
1	5	L	black	Power supply, phase

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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-167344-1

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: LwA measured as per ISO 13347 / LpA 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_{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	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 = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_V = Air flow
p_{fs} = Pressure increase

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