G3G200-AL29-71

EC centrifugal fan

forward-curved, single-intake

with housing (without flange)



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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**G3G200-AL29-71**
Motor	**M3G084-FA**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	1850
Power consumption	W	510
Current draw	A	3.15
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	48	34.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		57.4	44
05 Variable speed drive		Yes	

09 Power consumption P_{ed}	kW	0.33
09 Air flow q_v	m^3/h	1055
09 Pressure increase p_{fs}	Pa	493
10 Speed (rpm) n	min^{-1}	2000
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-71814

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Technical description

Weight	7.4 kg
Fan size	200 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet steel, hot-dip galvanized
Housing material	Sheet steel, hot-dip galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
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	- Output 10 VDC, max. 1.1 mA - Alarm relay - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Thermal overload protection for electronics/motor - Line undervoltage detection
EMC immunity to interference	According to EN 61000-6-2
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
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; EAC; UL 2111; CSA C22.2 No. 77

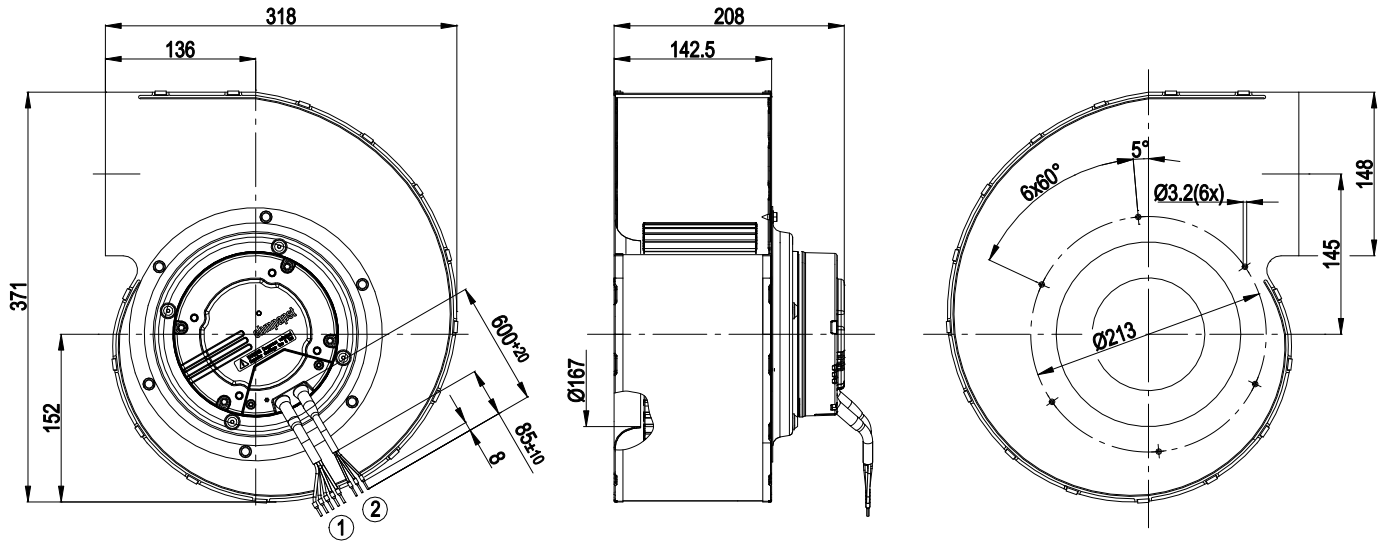
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Product drawing



1	Cable PVC AWG18, 5x crimped ferrules
2	Cable PVC AWG22, 3x crimped ferrules

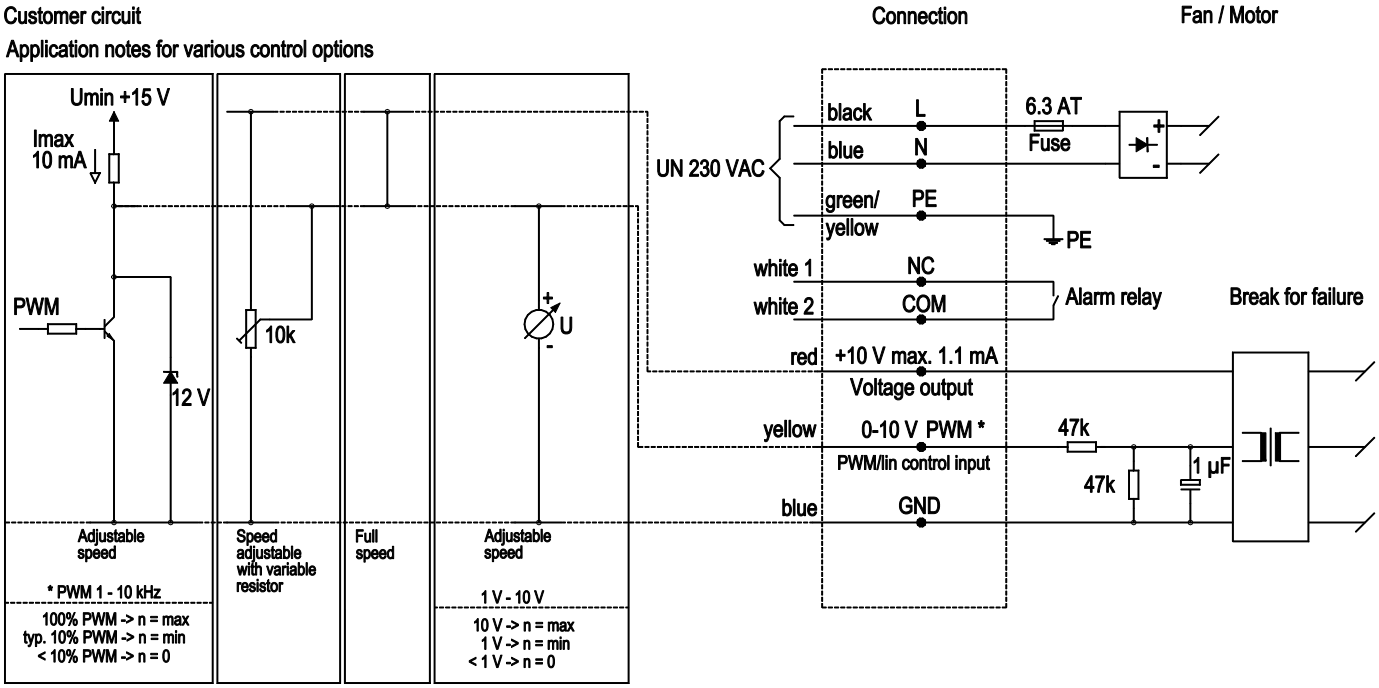
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Connection diagram



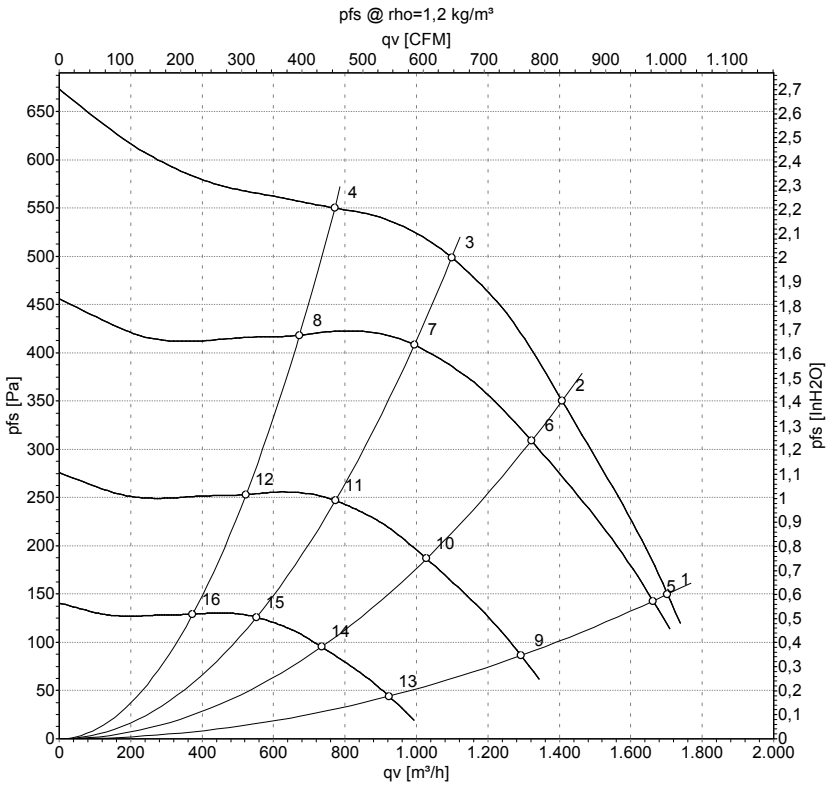
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Curves: Air performance 50 Hz



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	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	230	50	1850	510	3.15	1705	150	1000	0.60
2	230	50	1915	439	2.76	1410	350	830	1.41
3	230	50	1990	347	2.18	1100	500	645	2.01
4	230	50	2065	265	1.69	770	550	455	2.21
5	230	50	1800	478	3.00	1660	143	980	0.57
6	230	50	1800	364	2.29	1320	309	780	1.24
7	230	50	1800	257	1.62	995	409	585	1.64
8	230	50	1800	176	1.12	670	418	395	1.68
9	230	50	1400	225	1.41	1295	86	760	0.35
10	230	50	1400	171	1.08	1030	187	605	0.75
11	230	50	1400	121	0.76	775	247	455	0.99
12	230	50	1400	83	0.53	525	253	310	1.02
13	230	50	1000	82	0.52	925	44	545	0.18
14	230	50	1000	62	0.39	735	95	430	0.38
15	230	50	1000	44	0.28	550	126	325	0.51
16	230	50	1000	30	0.19	375	129	220	0.52

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

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