G3G200-BB62-10

EC centrifugal fan

forward-curved

with housing (flange)

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Nominal data

Type	**G3G200-BB62-10**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		fa
Speed (rpm)	min^{-1}	1100
Power consumption	W	165
Current draw	A	1.2
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

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Technical description

Fan size	200 mm
Rotor surface	Unpainted
Impeller material	Sheet steel, hot-dip galvanized
Housing material	Sheet steel, hot-dip galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
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	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0.5-9.5 VDC / PWM - Output 10 VDC, max. 1.1 mA - Tach output - Motor current limitation - Soft start
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 (household environment)
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 60335-1
Approval	CSA C22.2 No. 77; UL 2111

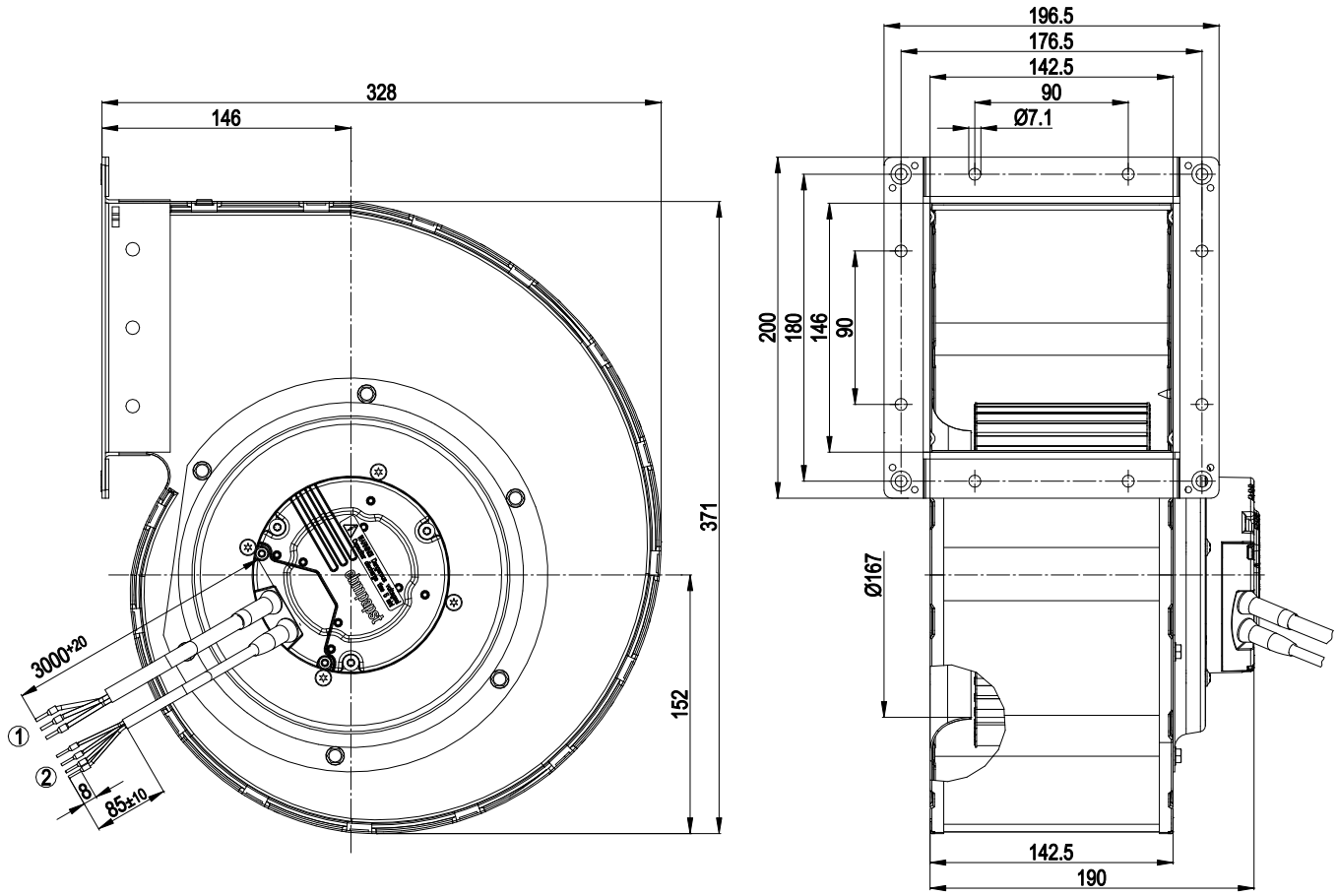
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Product drawing



1	Cable AWG 18, 3x crimped ferrules
2	Cable AWG 22, 4x crimped ferrules

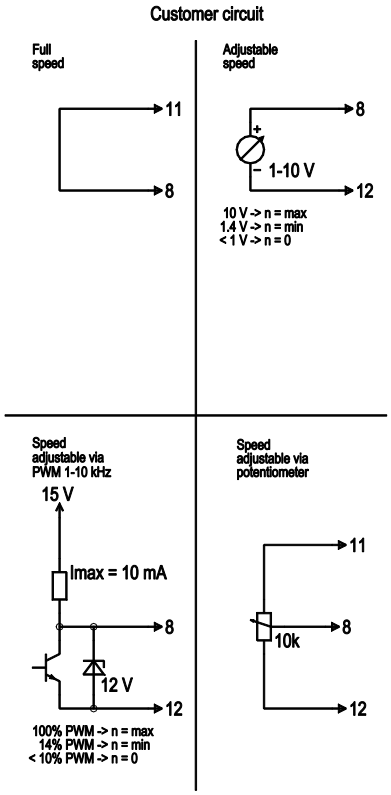
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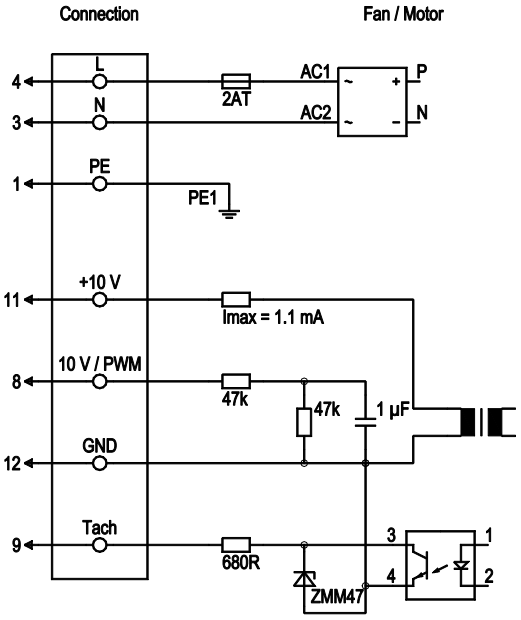
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Connection diagram





No.	Conn.	Designation	Color	Function/assignment
	4	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	8	0-10 V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	9	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	11	10V / max 1.1 mA	red	Voltage output 10 V/max. 1.1 mA, electrically isolated
	12	GND	blue	GND connection for control interface

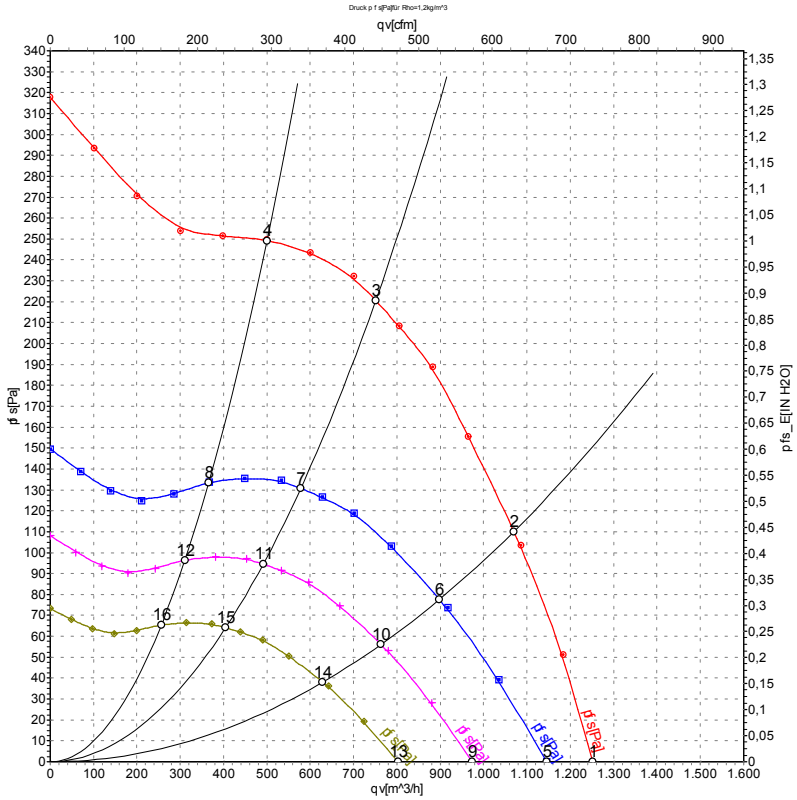
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Curves: Air performance 50 Hz



Measurement: LU-73821-1

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	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	230	50	1100	165	1.20	1250	0	735	0.00
2	230	50	1190	151	1.12	1070	110	630	0.44
3	230	50	1300	114	0.85	750	220	440	0.88
4	230	50	1365	87	0.64	500	250	295	1.00
5	230	50	1000	127	0.94	1145	0	675	0.00
6	230	50	1000	89	0.66	900	78	530	0.31
7	230	50	1000	52	0.39	580	131	340	0.53
8	230	50	1000	34	0.25	365	134	215	0.54
9	230	50	850	78	0.57	975	0	575	0.00
10	230	50	850	55	0.41	765	56	450	0.22
11	230	50	850	32	0.24	490	94	290	0.38
12	230	50	850	21	0.15	310	97	185	0.39
13	230	50	700	44	0.32	800	0	470	0.00
14	230	50	700	31	0.23	630	38	370	0.15
15	230	50	700	18	0.13	405	64	240	0.26
16	230	50	700	12	0.09	255	66	150	0.26

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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