G3G133-DD11-02

EC centrifugal fan

forward curved, single inlet

with housing (without flange)



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Nominal data

Type	**G3G133-DD11-02**	
Motor	**M3G055-BD**	
Phase		1~
Nominal voltage	VAC	115
Frequency	Hz	50/60
Type of data definition		ml
State		prelim.
Speed	min^{-1}	2000
Power input	W	42
Current draw	A	0.60
Min. back pressure	Pa	0
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

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Technical features

Mass	1.6 kg
Size	133 mm
Material of impeller	Hot-dip galvanized sheet steel
Housing material	Sheet steel, hot-galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity class	F3-1
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	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
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 60335-1
Approval	GOST

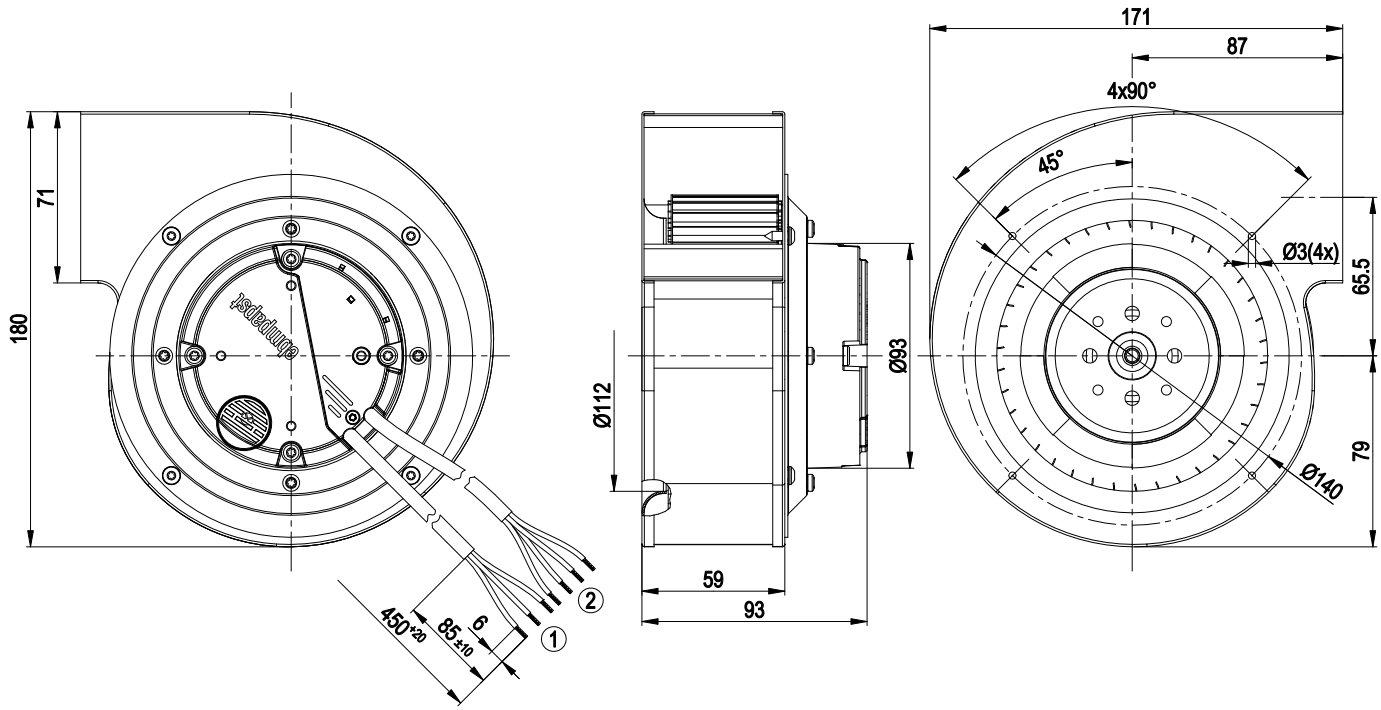
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Product drawing



1	Connection line H03VV, 3x brass lead tips crimped
2	Connection line A03VV, 4x brass lead tips crimped

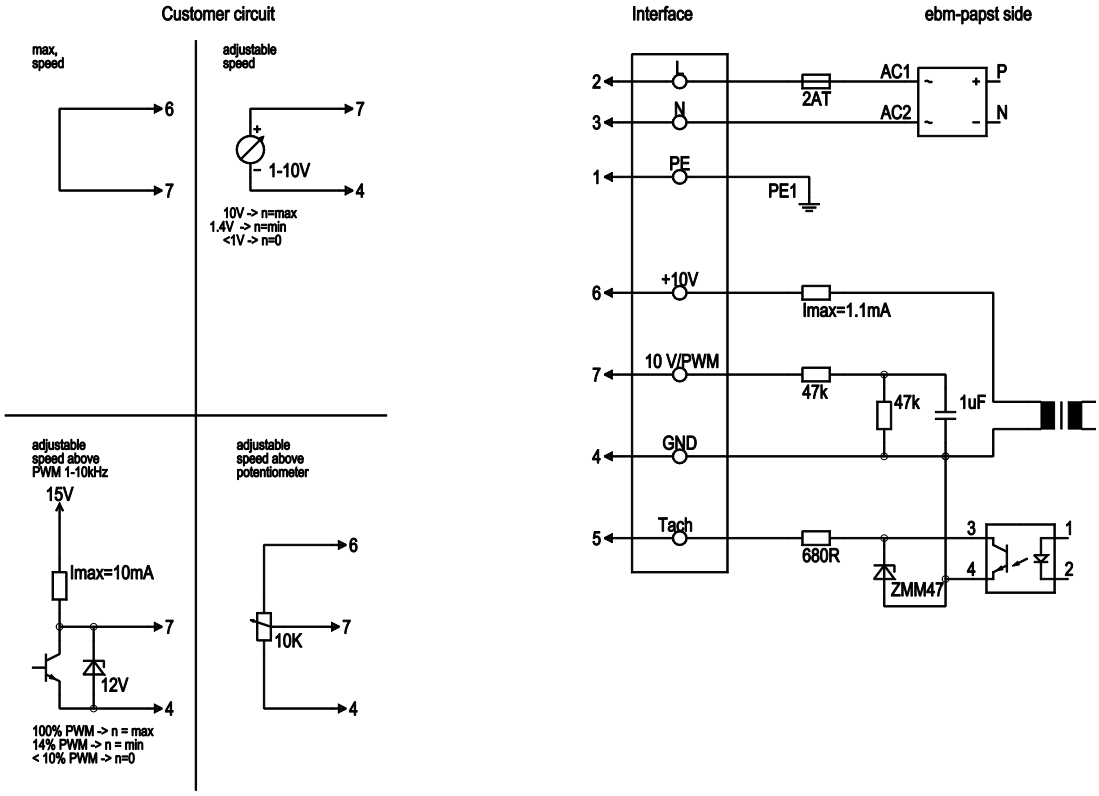
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Connection screen



Line	No.	Signal	Colour	Function / assignment
	1	PE	green/yellow	Protective earth
	2	L	brown	Power supply 115 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	4	GND	blue	GND - Connection for control interface
	5	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	6	10V/ max. 1,1mA	red	Voltage output 10 V/ 1.1 mA, electrically isolated
	7	0-10V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated

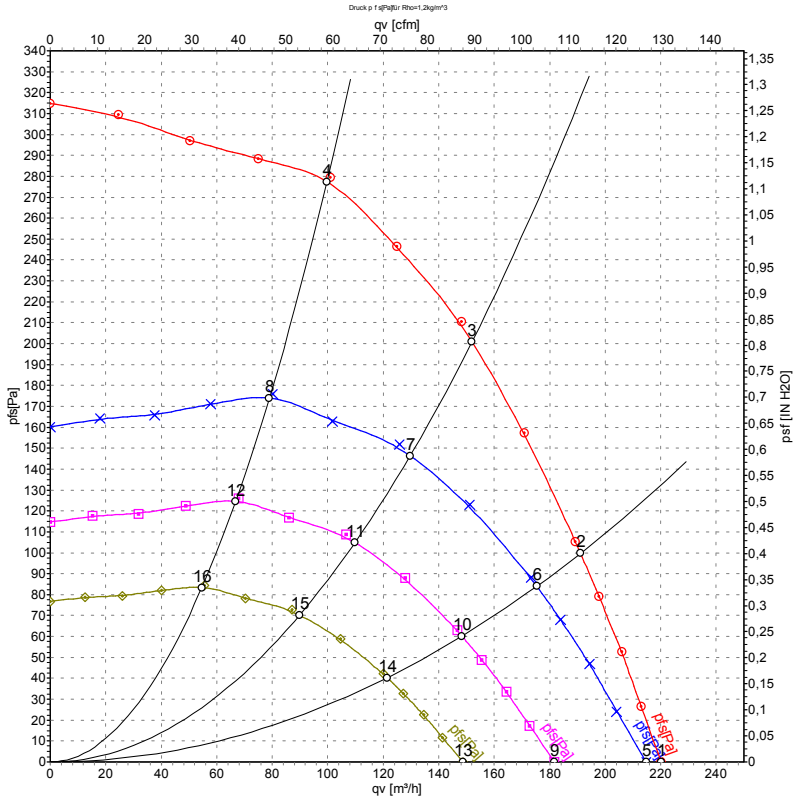
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Charts: Air flow 50 Hz



Measurement: LU-73164

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	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	115	50	2000	42	0.60	220	0
2	115	50	2125	37	0.55	190	100
3	115	50	2280	31	0.45	150	200
4	115	50	2460	23	0.35	100	280
5	115	50	1950	39	0.57	215	0
6	115	50	1950	29	0.43	175	84
7	115	50	1950	19	0.28	130	147
8	115	50	1950	11	0.17	80	176
9	115	50	1650	24	0.35	180	0
10	115	50	1650	17	0.26	150	60
11	115	50	1650	12	0.17	110	106
12	115	50	1650	6.9	0.10	65	126
13	115	50	1350	13	0.19	150	0
14	115	50	1350	9.5	0.14	120	40
15	115	50	1350	6.3	0.09	90	71
16	115	50	1350	3.8	0.06	55	84

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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