G3G133-DK11-17

EC centrifugal fan

forward-curved, single-intake

with housing (without flange)

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Nominal data

Type	**G3G133-DK11-17**
Motor	**M3G055-BI**

Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 130
Frequency	Hz	50/60
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2400
Power consumption	W	65
Current draw	A	1.05
Min. back pressure	Pa	0
Min. back pressure	in. wg	0
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

Weight	1.6 kg
Size	133 mm
Motor size	55
Rotor surface	Thick-film passivated
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-4 (industrial environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	CE
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; UL 1004-7 + 60730

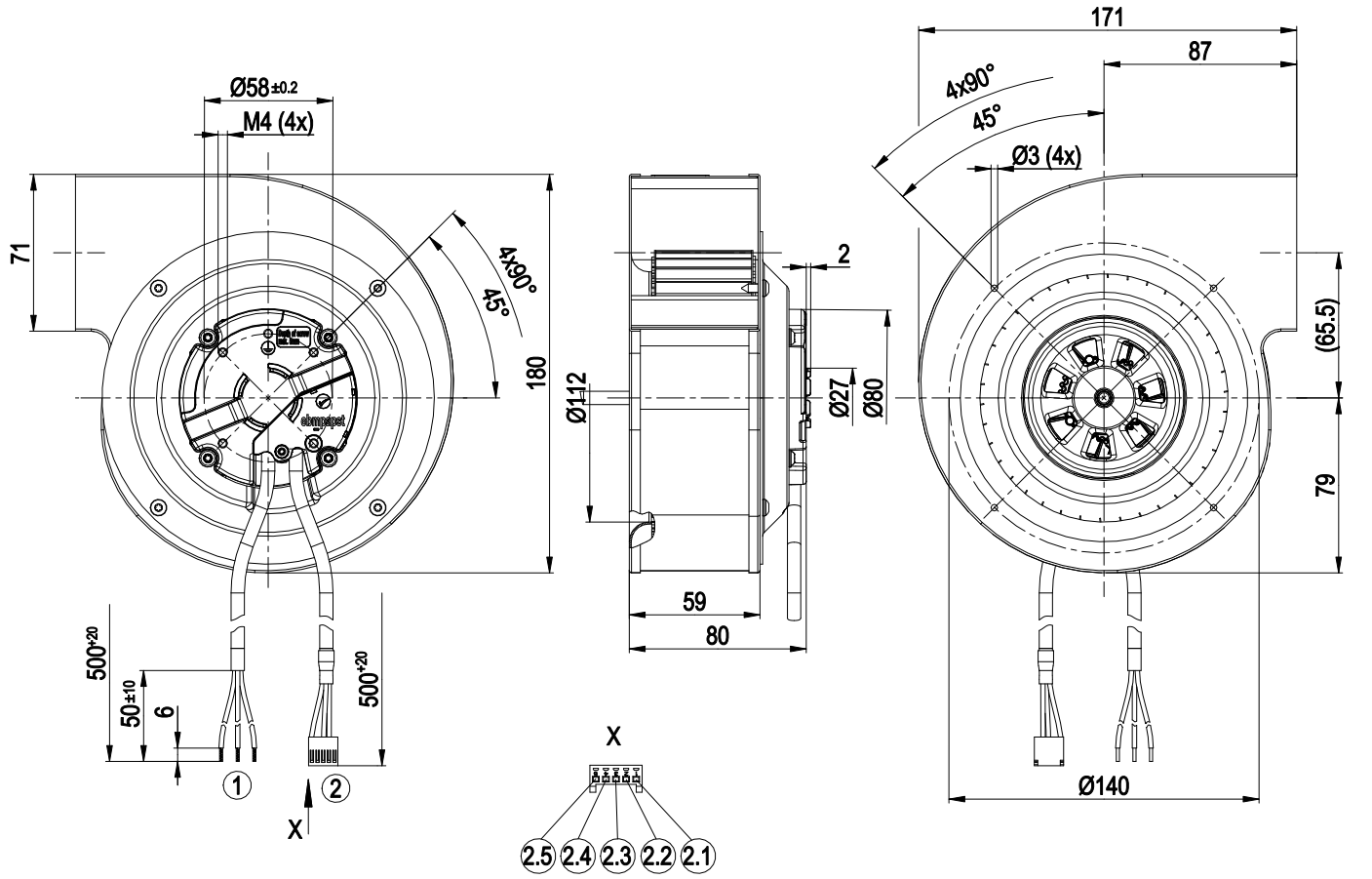
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Product drawing



1	Cable PVC AWG20
	3x splice
2	Cable PVC AWG22
	5-pole connector housing TE 1375820-5, 3x plug contact TE 1375819-1
2.1	not used
2.2	GND (blue)
2.3	PWM (yellow)
2.4	not used
2.5	Tach (white)

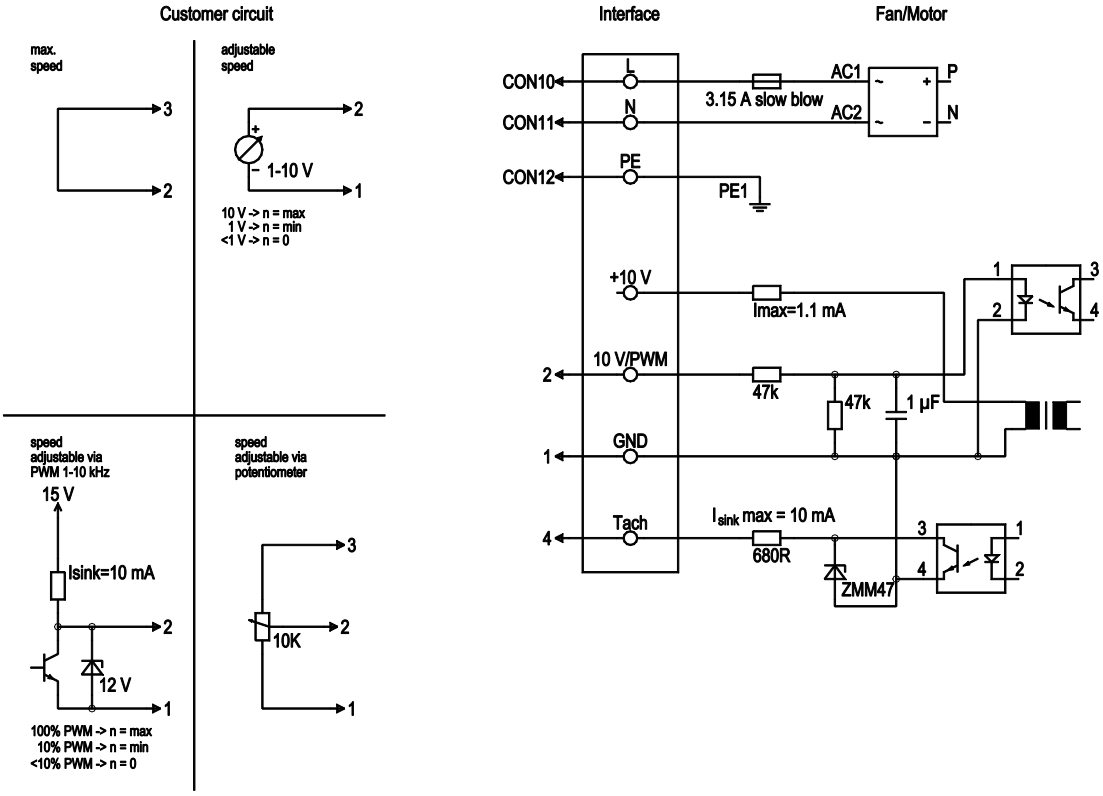
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	CON10	L	black	Power supply 115 VAC, 50-60 Hz, see nameplate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection of control interface
	2	0- 10V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	4	Tach	white	Tach output: Open collector, 1 pulse per revolution, electrically isolated, Isink max = 10 mA

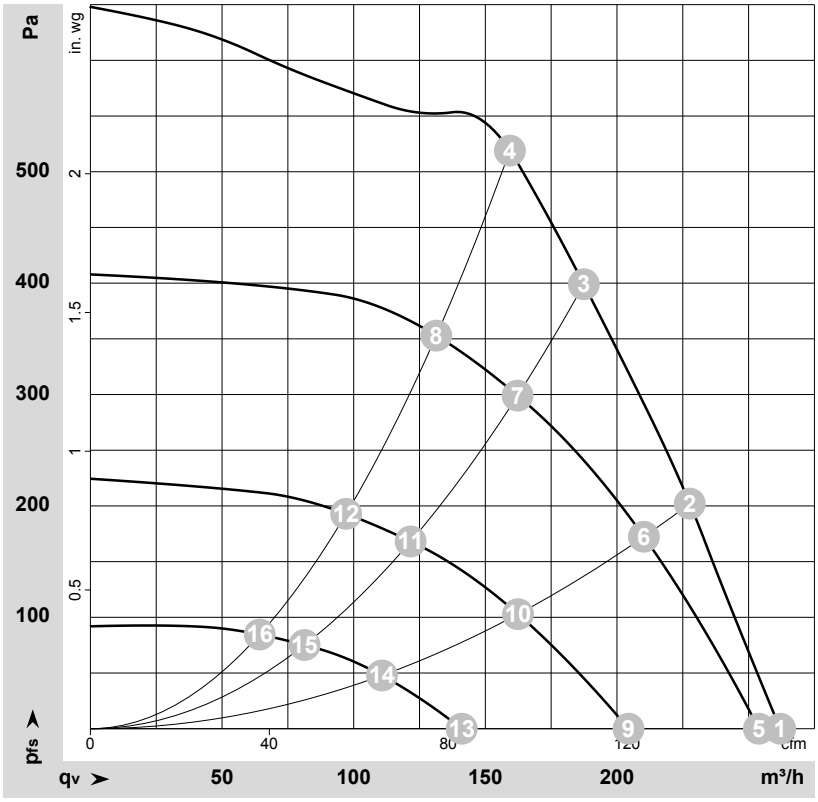
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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-179738-1
Measurement: LU-187267-1
Measurement: LU-187269-1
Measurement: LU-187271-1

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	115	50	2400	65	1.05	67	75	260	0	155	0.00
2	115	50	2745	65	1.05	67	75	230	200	135	0.80
3	115	50	3145	65	1.05	67	75	185	400	110	1.61
4	115	50	3405	65	1.05	67	74	160	520	95	2.09
5	115	50	2340	60	0.98	68	75	255	0	150	0.00
6	115	50	2590	54	0.90	65	72	210	199	125	0.80
7	115	50	2750	45	0.77	63	71	160	299	95	1.20
8	115	50	2855	39	0.68	62	70	130	364	75	1.46
9	115	50	1885	33	0.59	63	69	205	0	120	0.00
10	115	50	1970	25	0.46	61	67	160	117	95	0.47
11	115	50	2030	20	0.37	57	65	120	168	70	0.67
12	115	50	2065	17	0.32	55	63	95	197	55	0.79
13	115	50	1305	13	0.25	53	62	140	0	85	0.00
14	115	50	1360	10.0	0.21	51	61	110	56	65	0.22
15	115	50	1400	8.0	0.18	47	56	80	75	50	0.30
16	115	50	1425	7.0	0.16	45	53	65	86	40	0.35

U = Voltage · 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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