

EC centrifugal fan

forward-curved, single-intake
with housing (flange)

G1G133-DE21-22 ebmpapst Datasheet

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Nominal data

Type	G1G133-DE21-22	
Motor	M1G055-BD	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 30
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	1870
Power consumption	W	32
Current draw	A	1.5
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70

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



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Technical description

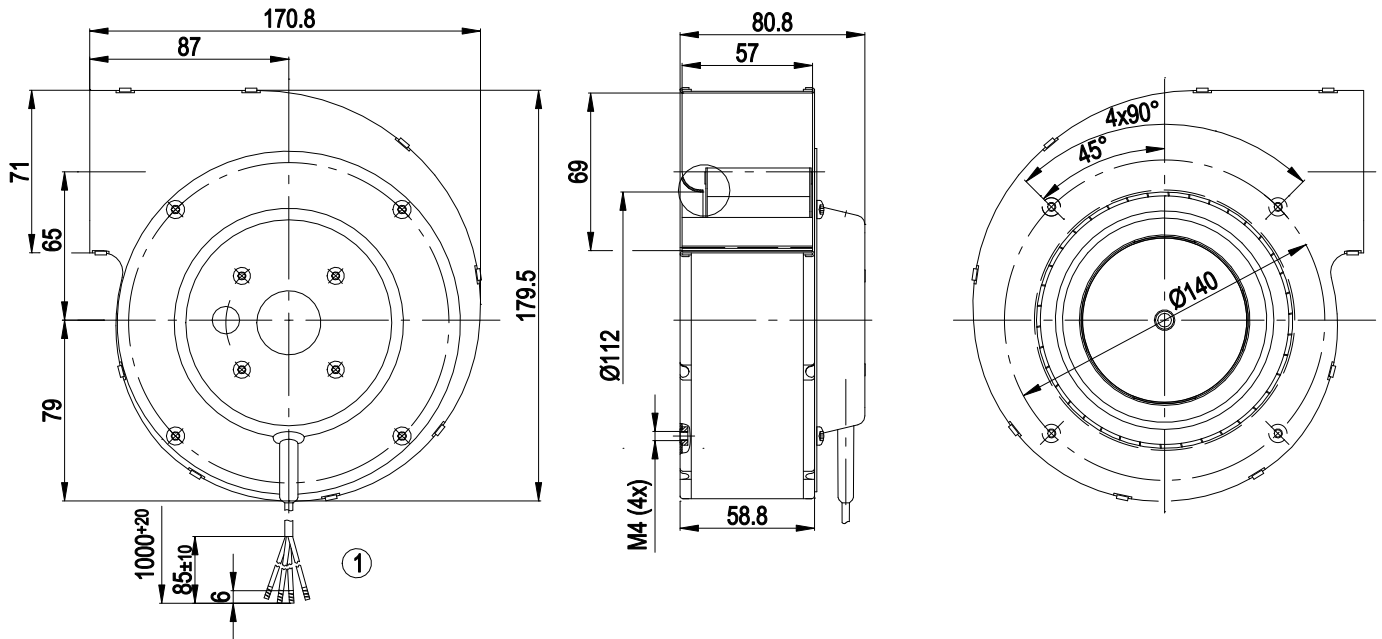
Weight	1.3 kg
Fan size	133 mm
Rotor surface	Thick-film passivated
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP22
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F0
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	- Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 55022 (Class B, household environment)
Motor protection	Reverse polarity and locked-rotor protection
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60950-1



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Product drawing

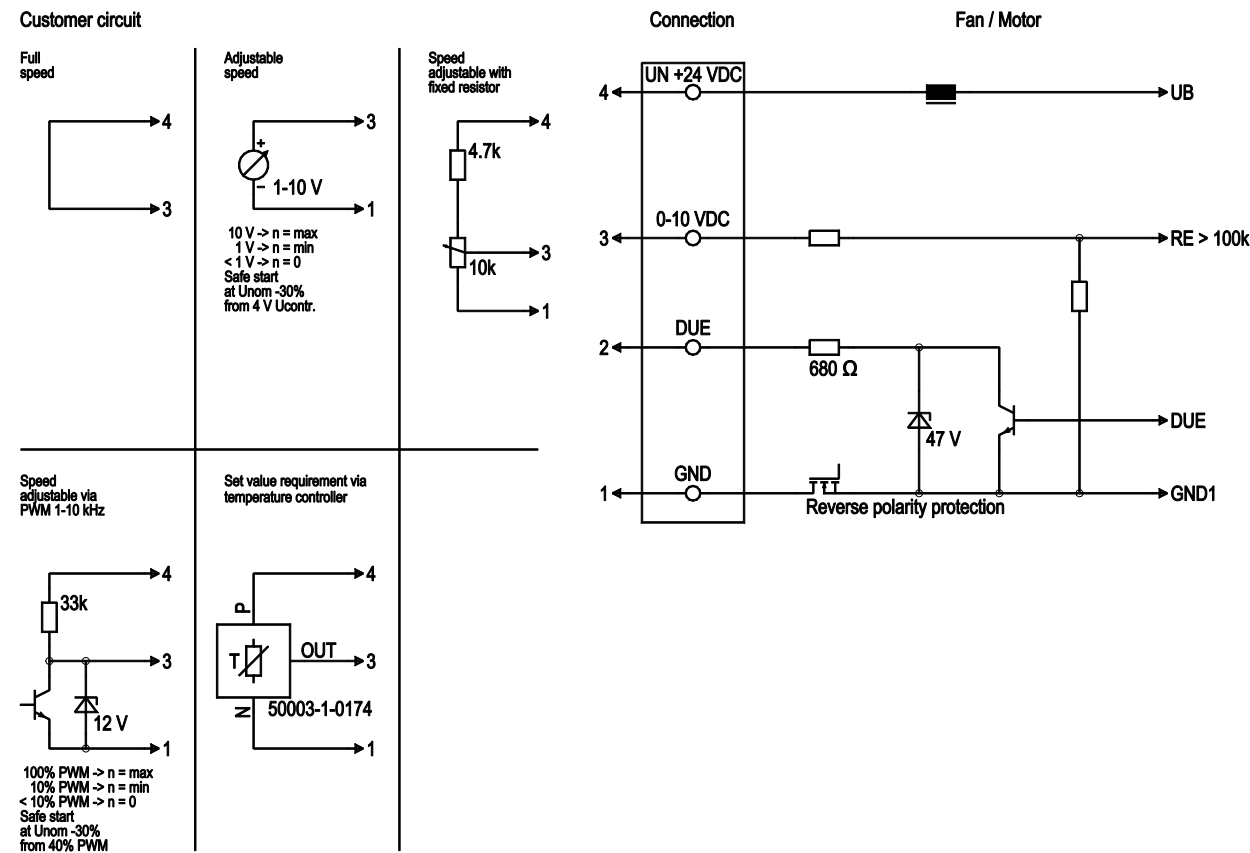


1 Cable XLPE 4x 0.5 mm², 4x crimped splices

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Connection diagram



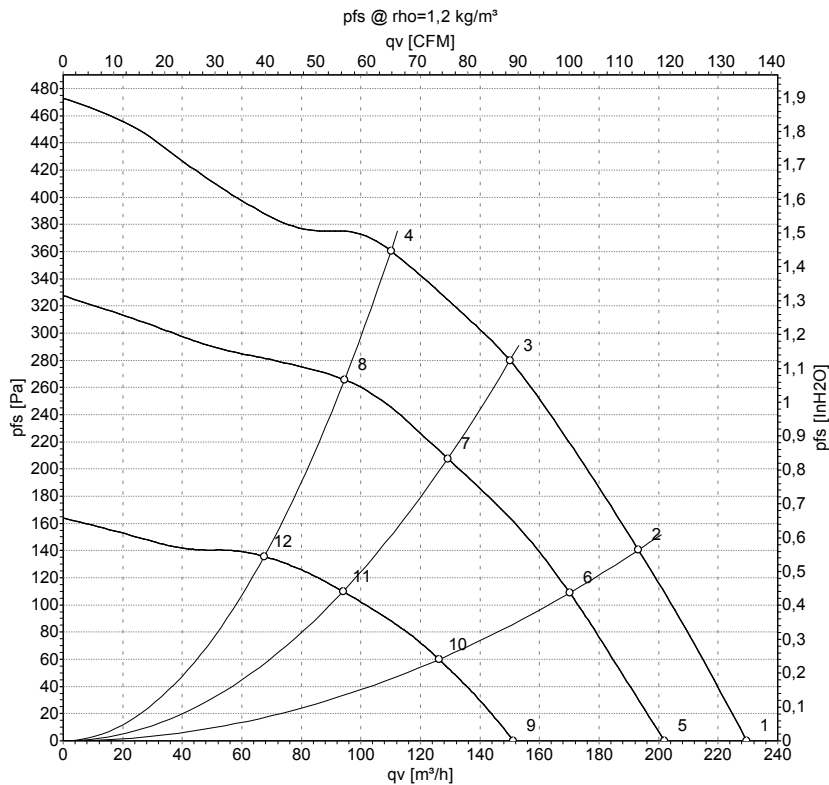
No.	Conn.	Designation	Color	Function/assignment
1	1	GND	blue	Reference ground
1	2	Tach	white	Tach output, 2 pulses per revolution, Isink max = 10 mA
1	3	0-10 VDC	yellow	Control input Re > 100k
1	4	Un +24 VDC	red	Power supply 24 VDC, maximum ripple 3.5%



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Curves: Air performance



Measurement: LU-76336-1
Measurement: LU-77754-1
Measurement: LU-77756-1

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	n	P _{ed}	I	qv	p _{fs}	qv	p _{fs}
	V	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
3	30	2555	38	1.40	150	280	90	1.12
4	30	2780	33	1.20	110	360	65	1.45
5	24	1870	32	1.50	200	0	120	0.00
6	24	2005	28	1.31	170	110	100	0.44
7	24	2210	24	1.08	130	208	75	0.84
8	24	2385	20	0.92	95	267	55	1.07
9	16	1430	14	0.95	150	0	90	0.00
10	16	1520	12	0.84	125	60	75	0.24
11	16	1645	10.0	0.71	95	110	55	0.44
12	16	1740	8.0	0.63	70	136	40	0.55

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

