D1G133-DC17-17

EC centrifugal fan

forward-curved, dual-intake

with housing (flange)

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Nominal data

Type	**D1G133-DC17-17**	
Motor	**M1G074-CF**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Frequency	Hz	-
Method of obtaining data		fa
Speed (rpm)	min^{-1}	1580
Power consumption	W	118
Current draw	A	3.0
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	3.6 kg
Fan size	133 mm
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F4-1
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 with low-temperature lubricant
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limitation - Soft start
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 55022 (Class B)
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1
Approval	EAC

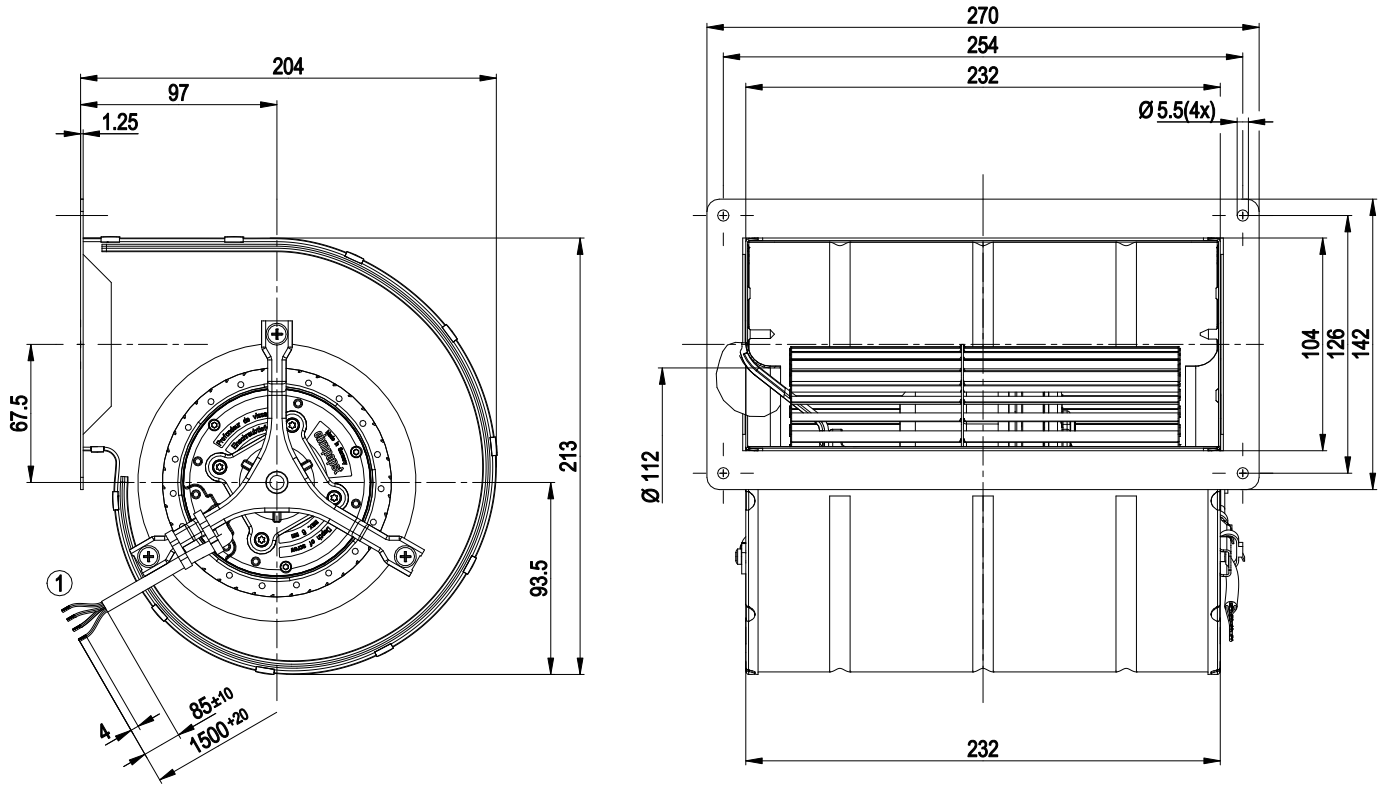
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Product drawing



1	Cable silicone 4x0.5 mm², 4x crimped splices

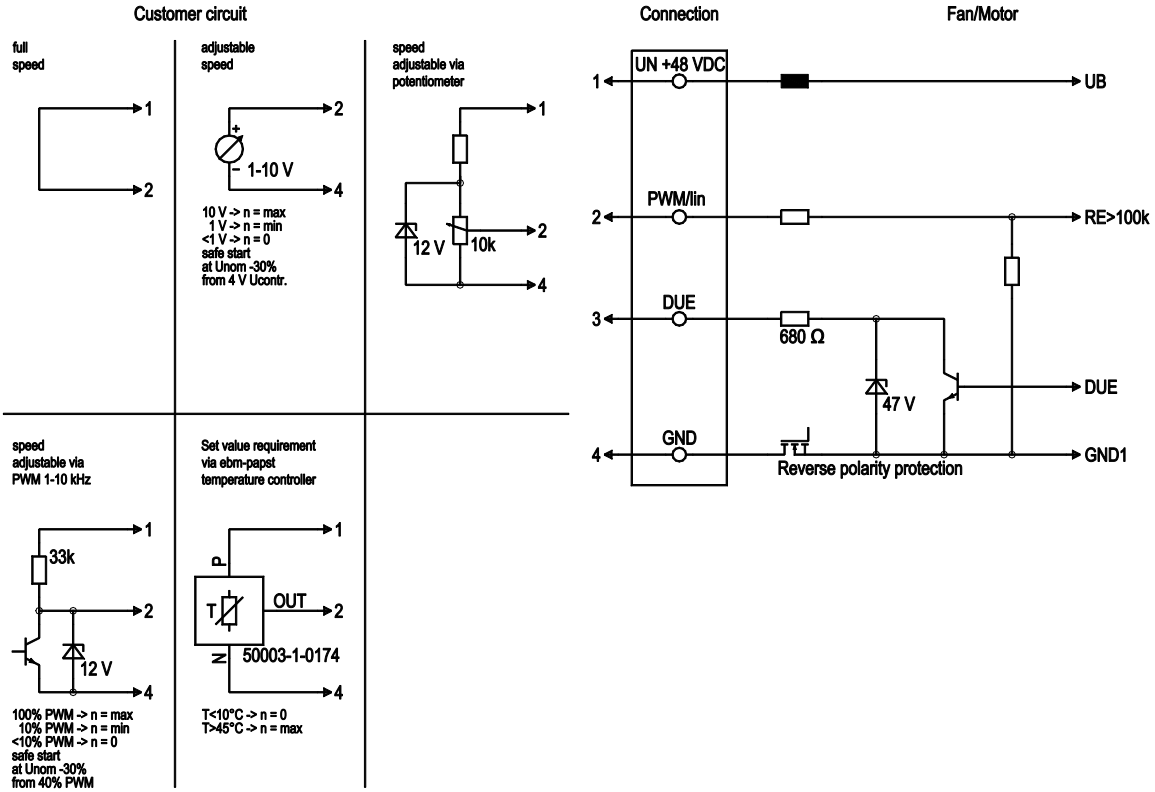
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	Un +48 VDC	brown	Power supply 48 VDC, maximum ripple 3.5%
1	2	PWM / lin	black	PWM/lin. Control input, 0-10 V
1	3	Tach	gray	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

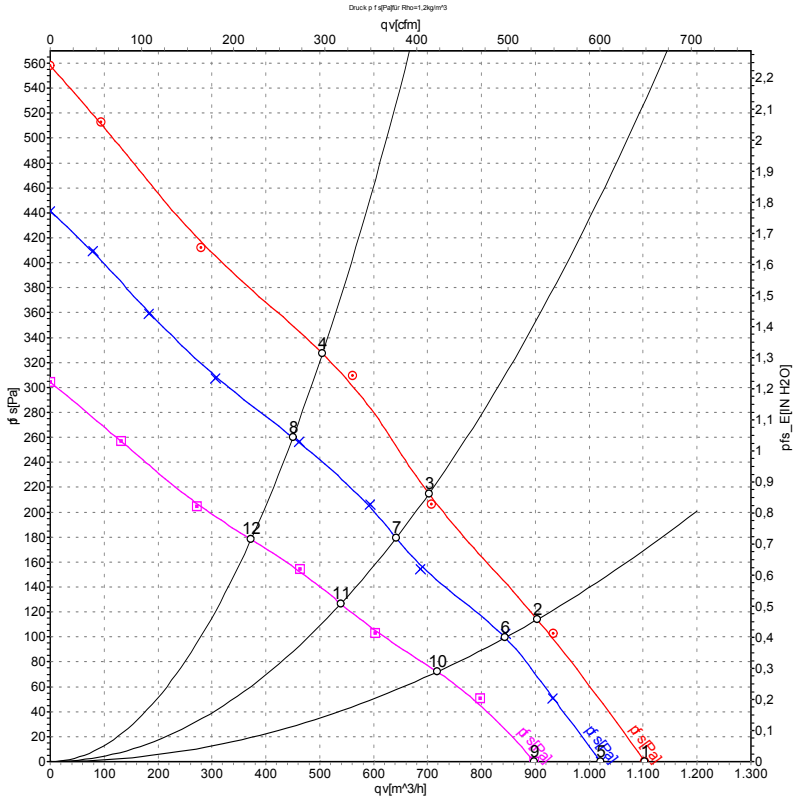
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Curves: Air performance



Measurement: LU-51340-1
Measurement: LU-51339-1
Measurement: LU-51341-1

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	m^3/h	Pa	CFM	inH2O
1	57	1700	145	3.32	1105	0	650	0.00
2	57	1925	134	2.94	905	117	530	0.47
3	57	2200	125	2.63	705	210	415	0.84
4	57	2520	114	2.34	505	330	295	1.32
5	48	1580	118	3.00	1020	0	600	0.00
6	48	1785	108	2.65	845	100	495	0.40
7	48	2040	99	2.40	640	180	380	0.72
8	48	2275	83	2.02	450	260	265	1.04
9	36	1405	79	2.50	900	0	530	0.00
10	36	1575	70	2.23	720	72	425	0.29
11	36	1725	59	1.90	540	126	315	0.51
12	36	1890	50	1.64	375	178	220	0.71

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

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