

D1G133-DC13-13

EC centrifugal fan

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

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	D1G133-DC13-13	
Motor	M1G074-CF	

Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Frequency	Hz	-
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1580
Power consumption	W	118
Current draw	A	6.0
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	3.8 kg
Size	133 mm
Motor size	74
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	IP42
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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 - Reverse polarity protection
With cable	Variable
Protection class assignment	III; Requires supply with safety extra-low voltage SELV. This component to be built-in can have several local protection classes. This specification relates to the basic design of this component. The final protection class is based on the intended installation and connection of the components.
Conformity with standards	EN 62368-1
Approval	CSA C22.2 No. 77; UL 1004-1

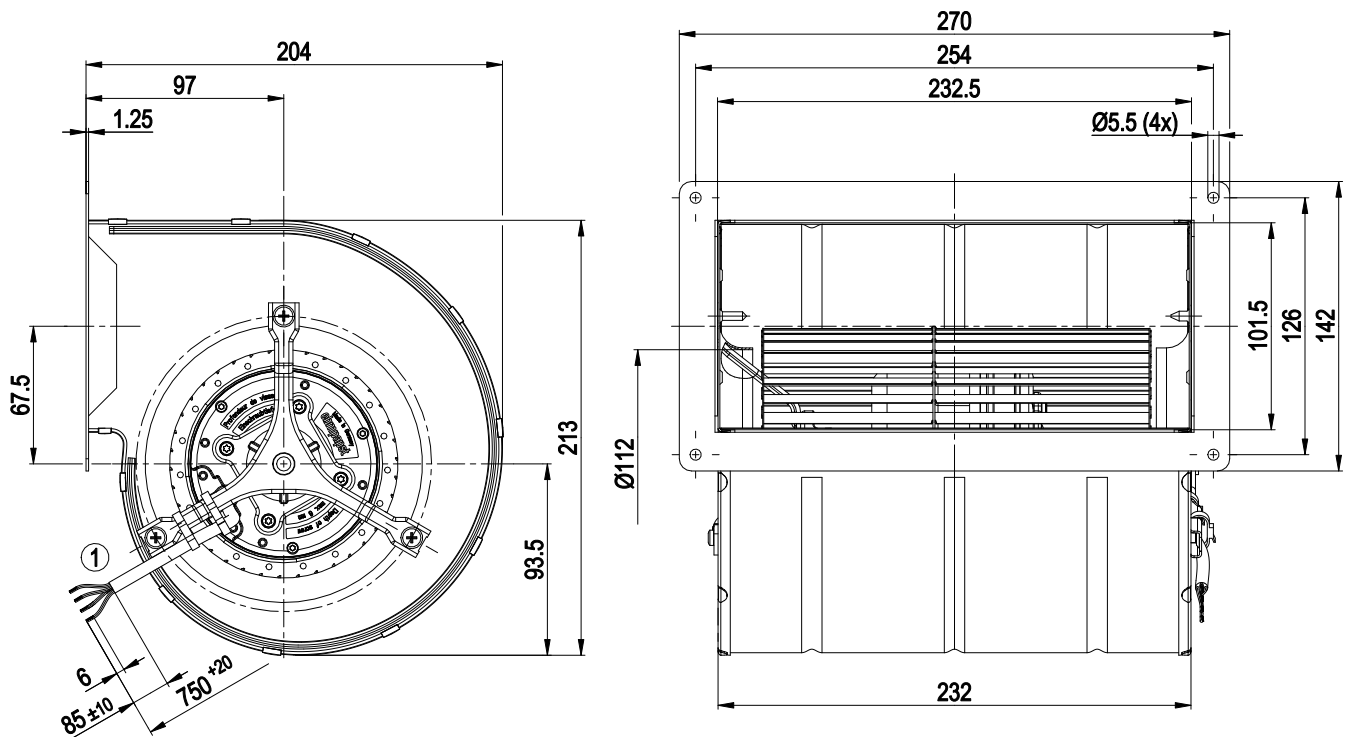


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Product drawing



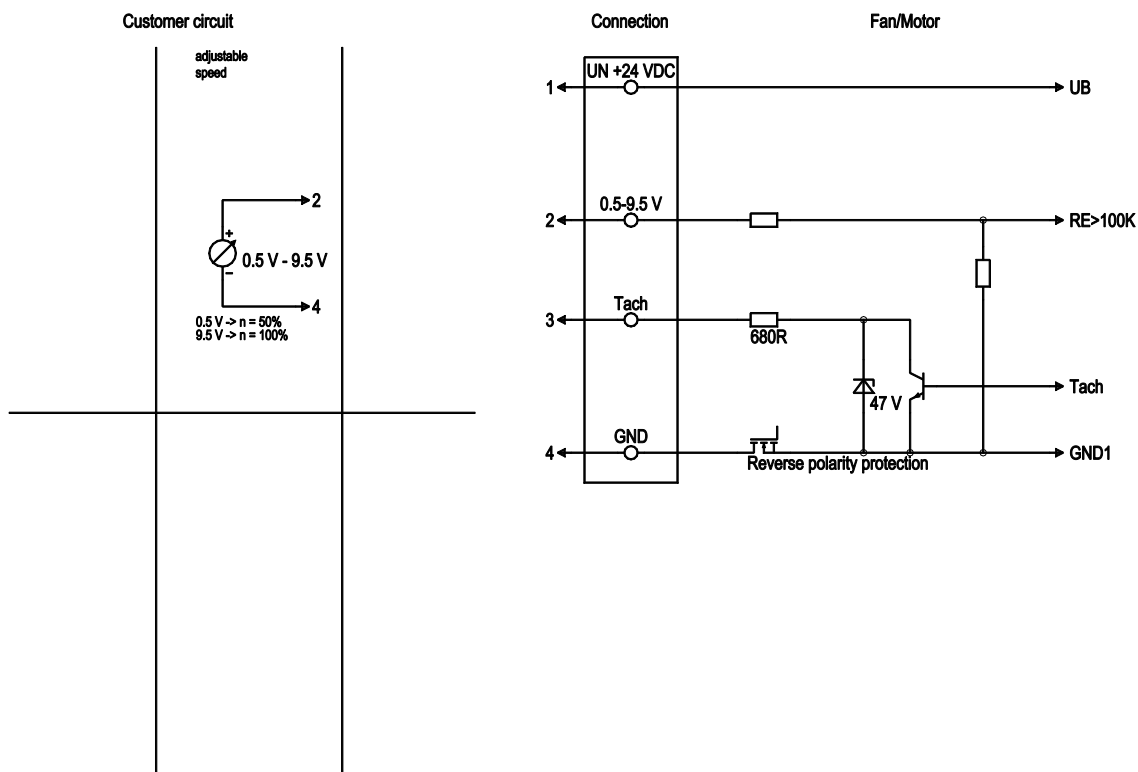
1 Cable Dipotherm 4x0.5 mm², heat shrink tube halogen-free transparent dia. 9.5 mm, 4x crimped splices



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Connection diagram

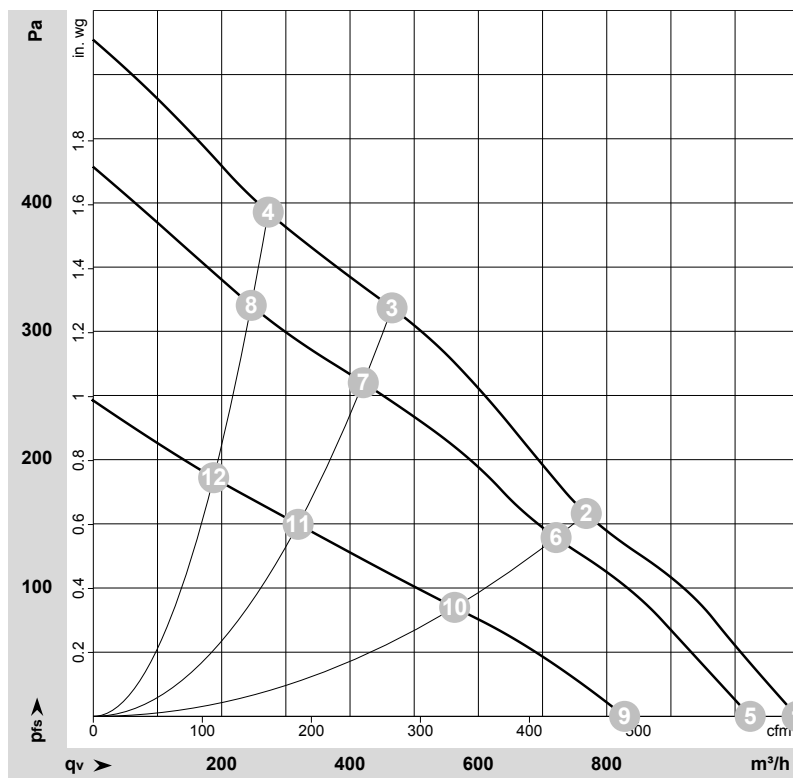


No.	Conn.	Designation	Color	Function/assignment
1	1	Un+24 VDC	red	Power supply 24 VDC, maximum ripple 3.5%
1	2	0.5-9.5 V	black	Control input Re>100 K
1	3	Tacho	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

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Curves: Air performance



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-51355-1
Measurement: LU-51354-1
Measurement: LU-51356-1

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	q _v	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	28	1675	147	6.46	1095	0	645	0.00
2	28	2095	127	5.18	770	155	450	0.62
3	28	2530	108	4.27	465	318	275	1.28
4	28	2745	92	3.64	275	392	160	1.57
5	24	1580	118	6.00	1025	0	605	0.00
6	24	1945	105	4.88	720	140	425	0.56
7	24	2295	81	3.75	420	260	250	1.04
8	24	2480	69	3.22	245	320	145	1.28
9	16	1290	66	4.59	830	0	485	0.00
10	16	1520	51	3.55	565	85	330	0.34
11	16	1750	38	2.77	320	150	190	0.60
12	16	1890	34	2.63	190	186	110	0.75

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

