

D1G133-DC13-10

EC centrifugal fan

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



D1G133-DC13-10 ebmpapst Datasheet
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Nominal data

Type	D1G133-DC13-10	
Motor	M1G074-CF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1550
Power consumption	W	117
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

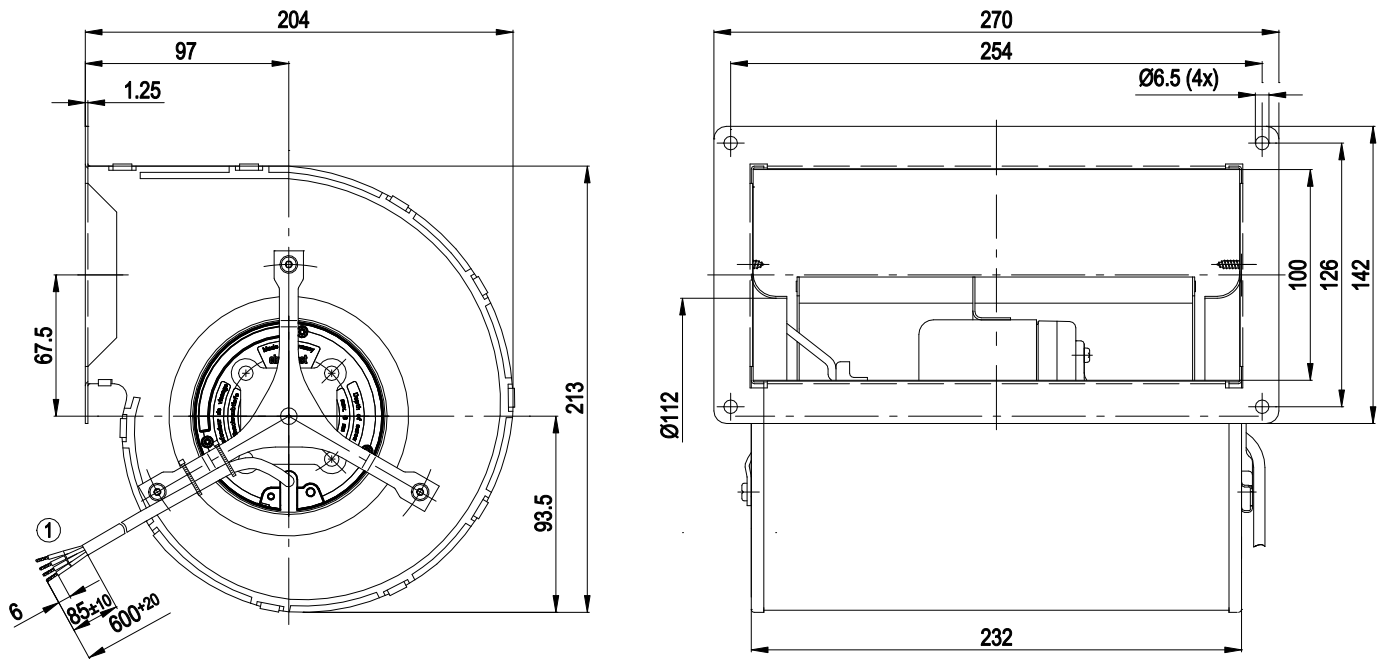
Weight	3.6 kg
Fan size	133 mm
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP42
Insulation class	"B"
Moisture (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 - PWM control input
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1
Approval	CSA C22.2 No. 77; UL 1004-1



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Product drawing

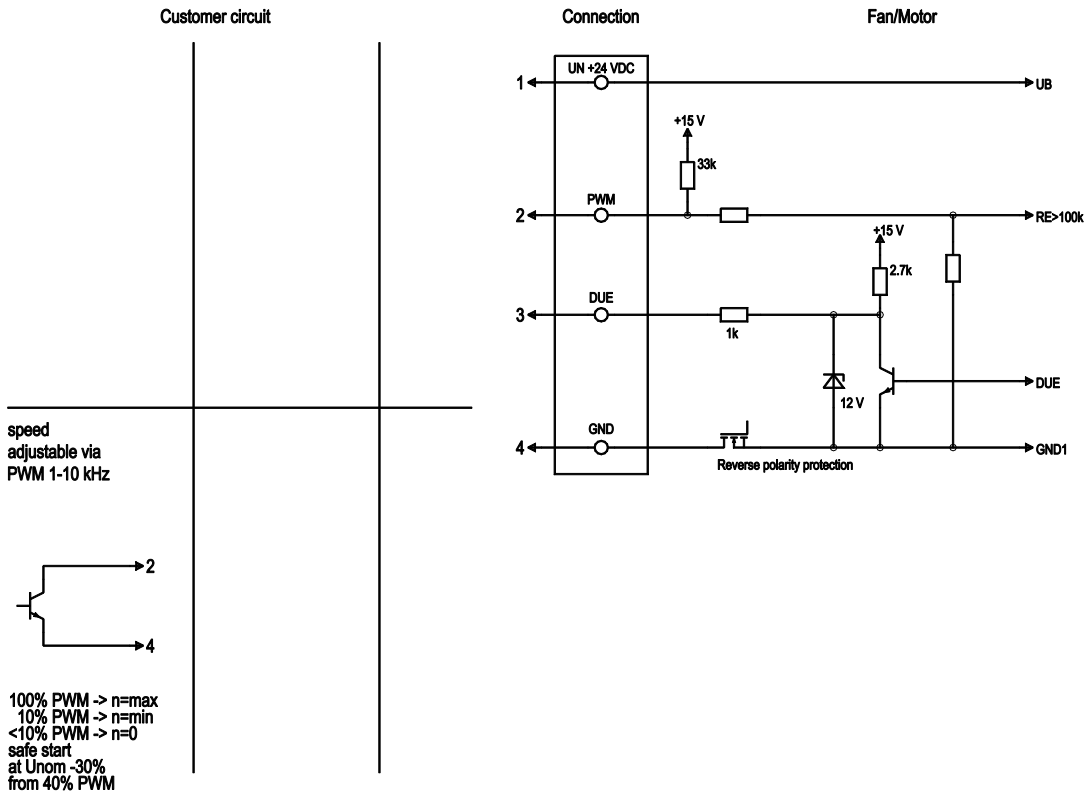


1 Cable PVC AWG20, 4x crimped splices

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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	PWM	black	PWM control input
1	3	DUE	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

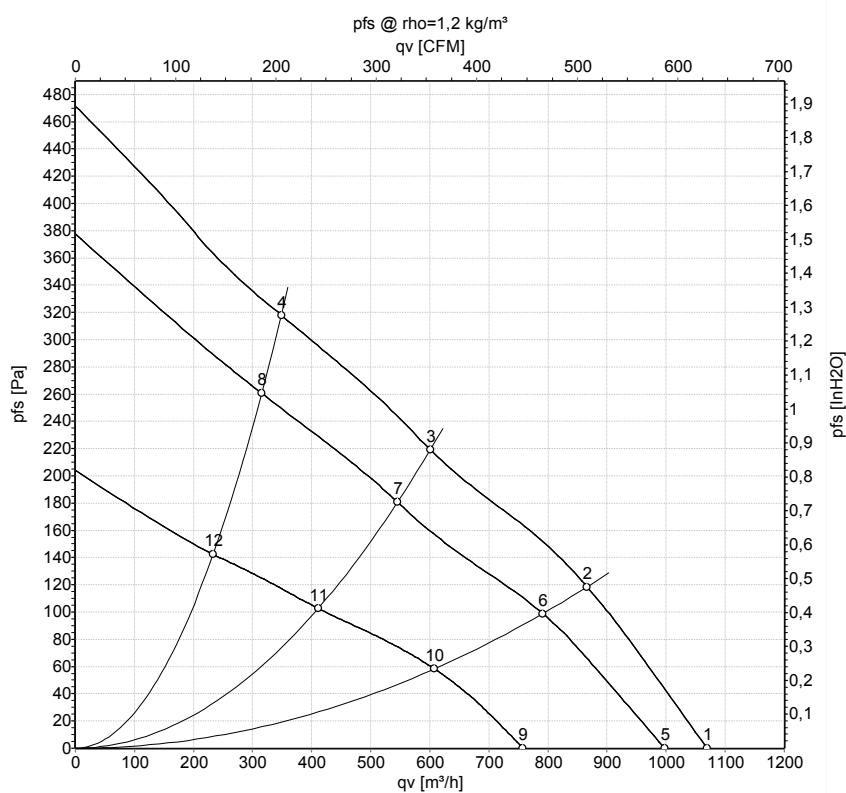


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Curves: Air performance



Measurement: LU-28962-1
Measurement: LU-28961-1
Measurement: LU-28963-1

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
1	28	1670	145	6.23	1070	0	630	0.00
2	28	1900	131	5.53	865	119	510	0.48
3	28	2180	110	4.59	600	219	355	0.88
4	28	2465	88	3.62	350	318	205	1.28
5	24	1550	117	5.80	1000	0	585	0.00
6	24	1740	102	4.97	790	100	465	0.40
7	24	1980	83	4.04	545	180	320	0.72
8	24	2225	67	3.22	315	260	185	1.04
9	16	1205	54	4.07	760	0	445	0.00
10	16	1350	48	3.49	610	58	360	0.23
11	16	1520	39	2.86	410	102	240	0.41
12	16	1690	31	2.34	235	142	135	0.57

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

