D1G133-DC03-55

EC centrifugal fan

forward-curved, dual-intake

with housing (without flange)

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Nominal data

Type	**D1G133-DC03-55**	
Motor	**M1G074-CF**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		ml
Speed	min^{-1}	2330
Power consumption	W	120
Current draw	A	5.6
Min. back pressure	Pa	250
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	3.3 kg
Fan size	133 mm
Rotor surface	Painted black
Impeller material	Sheet steel, hot-dip galvanized
Housing material	Sheet steel, hot-dip 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
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)
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1

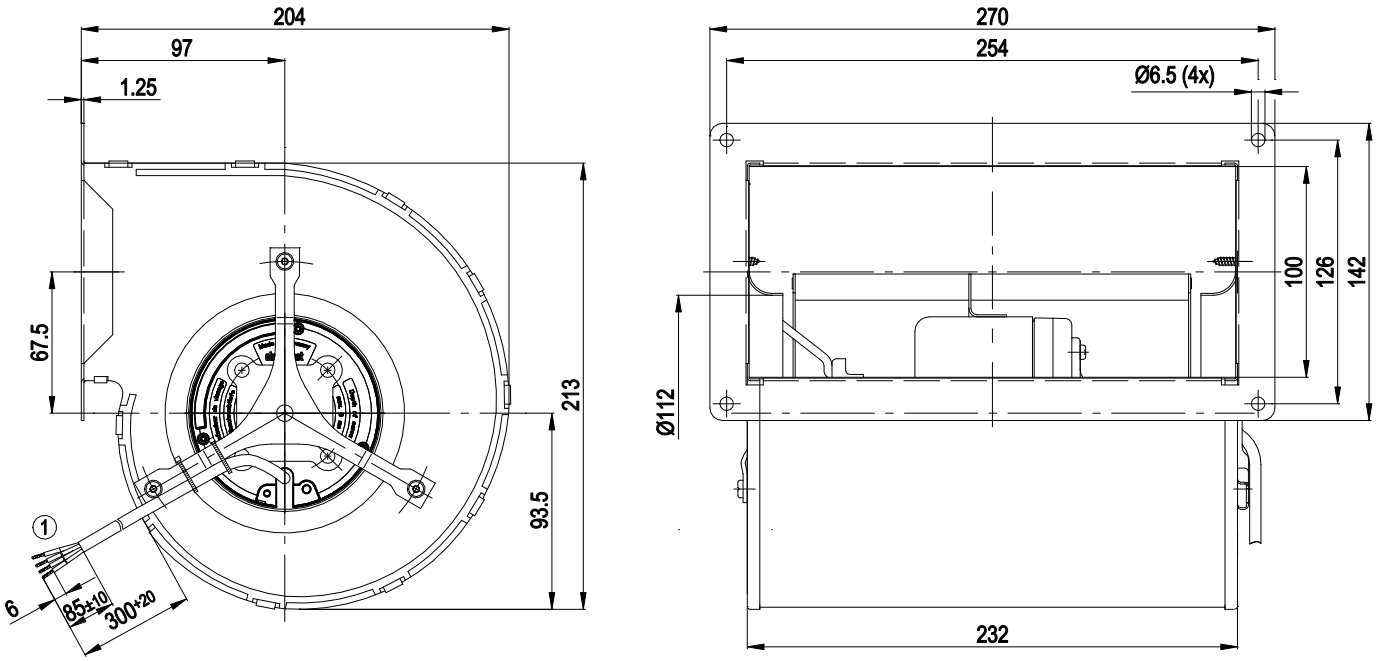
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Product drawing



1	Cable PVC AWG20, 4x crimped splices

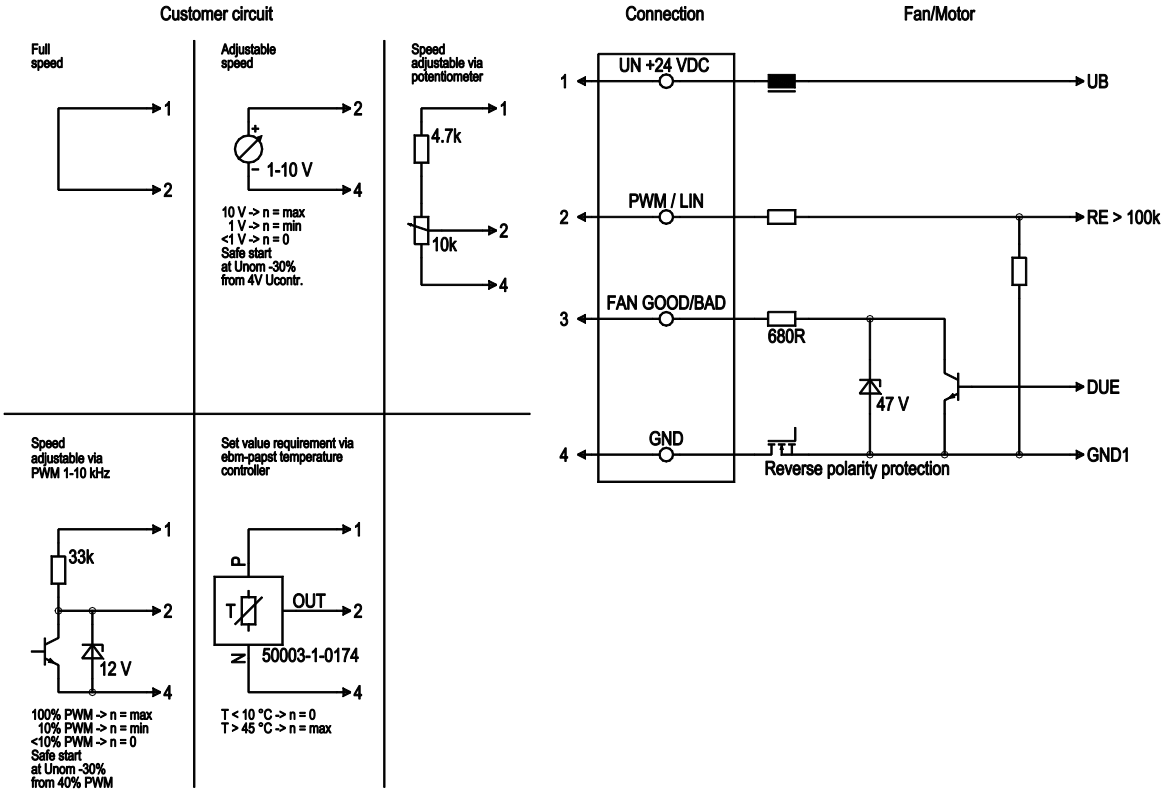
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	Un +24VDC	red	Power supply 24 VDC, see nameplate for voltage range, maximum ripple 3.5%
1	2	0-10VDC / PWM	yellow	Control input Re > 100k
1	3	FAN GOOD/BAD	white	Tach output, FAN GOOD = LOW / response threshold 300 rpm, Isink max = 10 mA
1	4	GND	blue	Reference ground

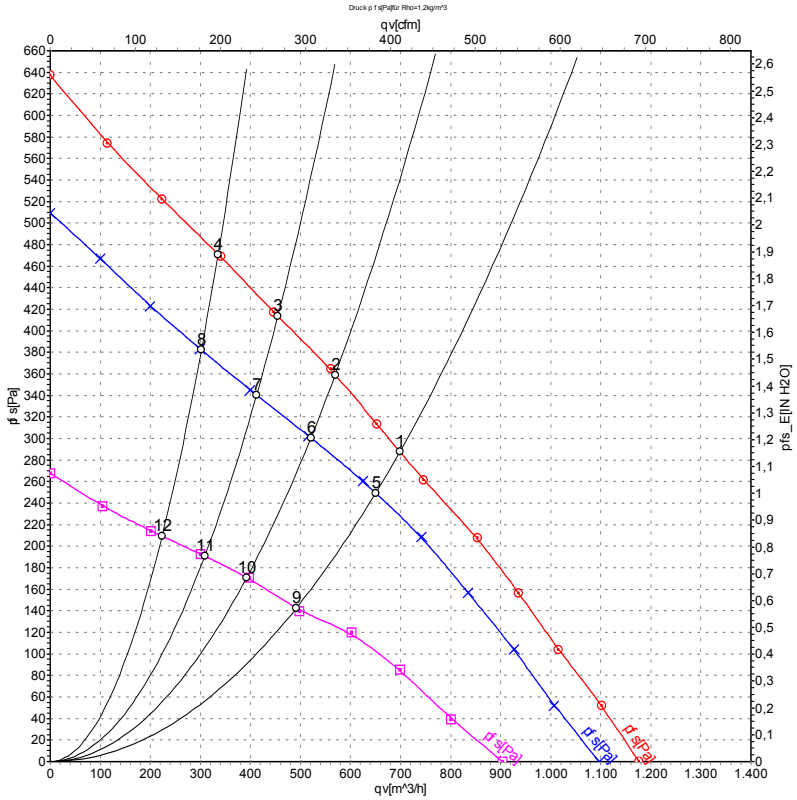
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Curves: Air performance



Measurement: LU-130172
Measurement: LU-130171
Measurement: LU-130173

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}
	V	min^{-1}	W	A	m^3/h	Pa
1	28	2480	146	5.91	700	288
2	28	2725	138	5.41	570	360
3	28	2850	132	5.13	455	414
4	28	3020	120	4.60	335	471
5	24	2325	119	5.47	650	250
6	24	2485	109	4.93	520	300
7	24	2595	99	4.48	410	340
8	24	2730	90	4.03	300	380
9	16	1795	55	3.81	490	142
10	16	1905	48	3.34	395	172
11	16	1975	44	3.08	310	191
12	16	2045	39	2.79	225	209

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

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