D1G133-DC55-16

EC centrifugal fan

forward-curved, dual-intake

with housing (flange)

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Nominal data

Type	**D1G133-DC55-16**
Motor	**M1G074-CF**

Nominal voltage	VDC	110
Nominal voltage range	VDC	67 .. 121
Method of obtaining data		fa
Speed (rpm)	min^{-1}	1550
Power consumption	W	120
Current draw	A	1.3
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	40

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	3.93 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	H2
Max. permitted ambient temp. for motor (transport/storage)	+70 °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	- Motor current limitation - Soft start - 2-bit control input - Reverse polarity protection
Electrical hookup	Connector with cable
With cable	Variable
Protection class assignment	III; If a protective earth is connected by the customer. 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	EAC

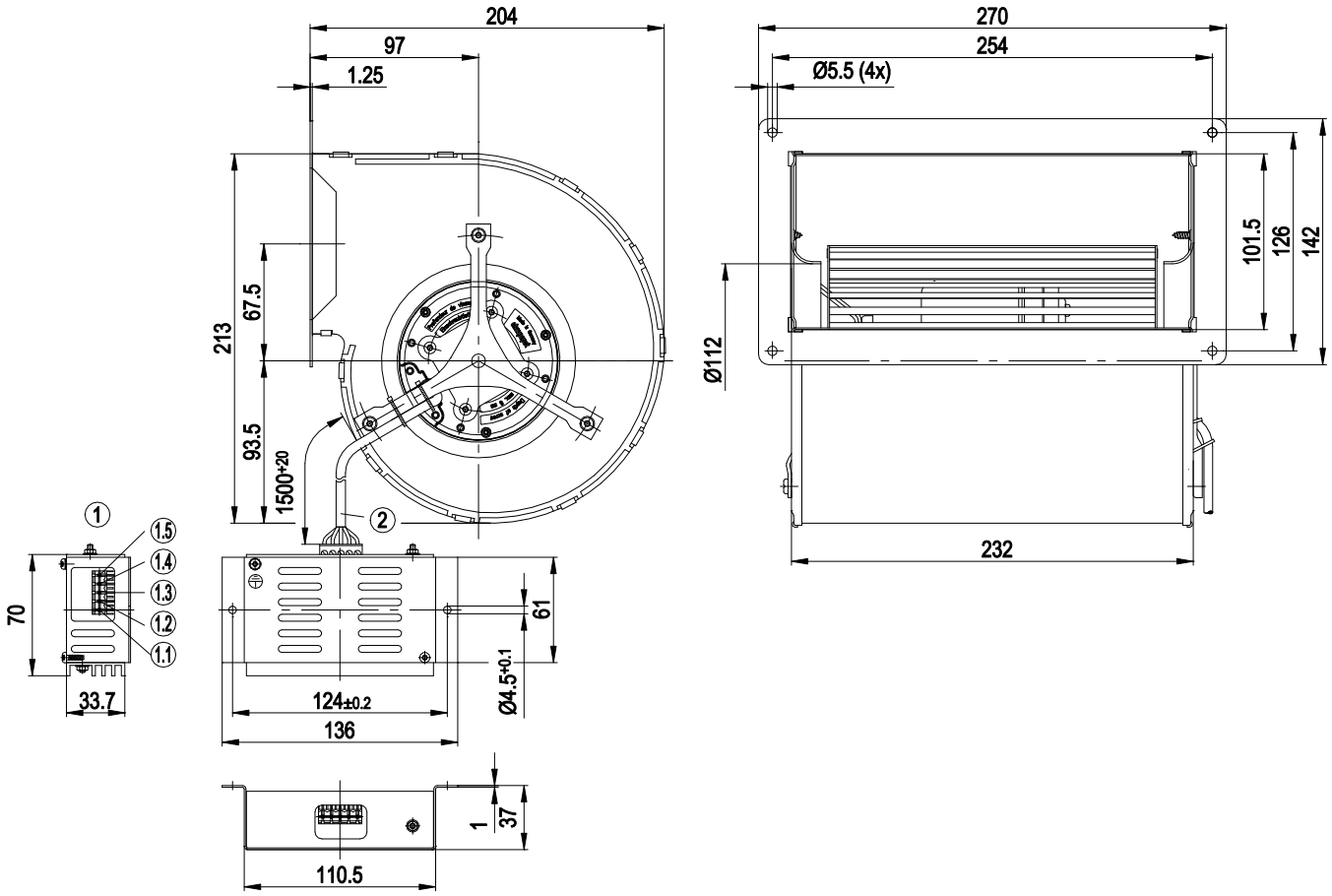
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Product drawing



1	Accessory parts: control unit 02004-1-0173 included in scope of delivery
	Connector housing 05001-4-6728 (Phönix MSTB2.5/5-STBDWH:CC+-) for customer connection included separately
1.1	Control input 1
1.2	Control input 2
1.3	+
1.4	-
1.5	PE
2	Cable silicone 5x 0.5 mm² with connector housing 79370-4-6728 (Phönix MSTB 2.5/5-ST)
	If replacement is needed: external electronics - CHG012-AA01-01

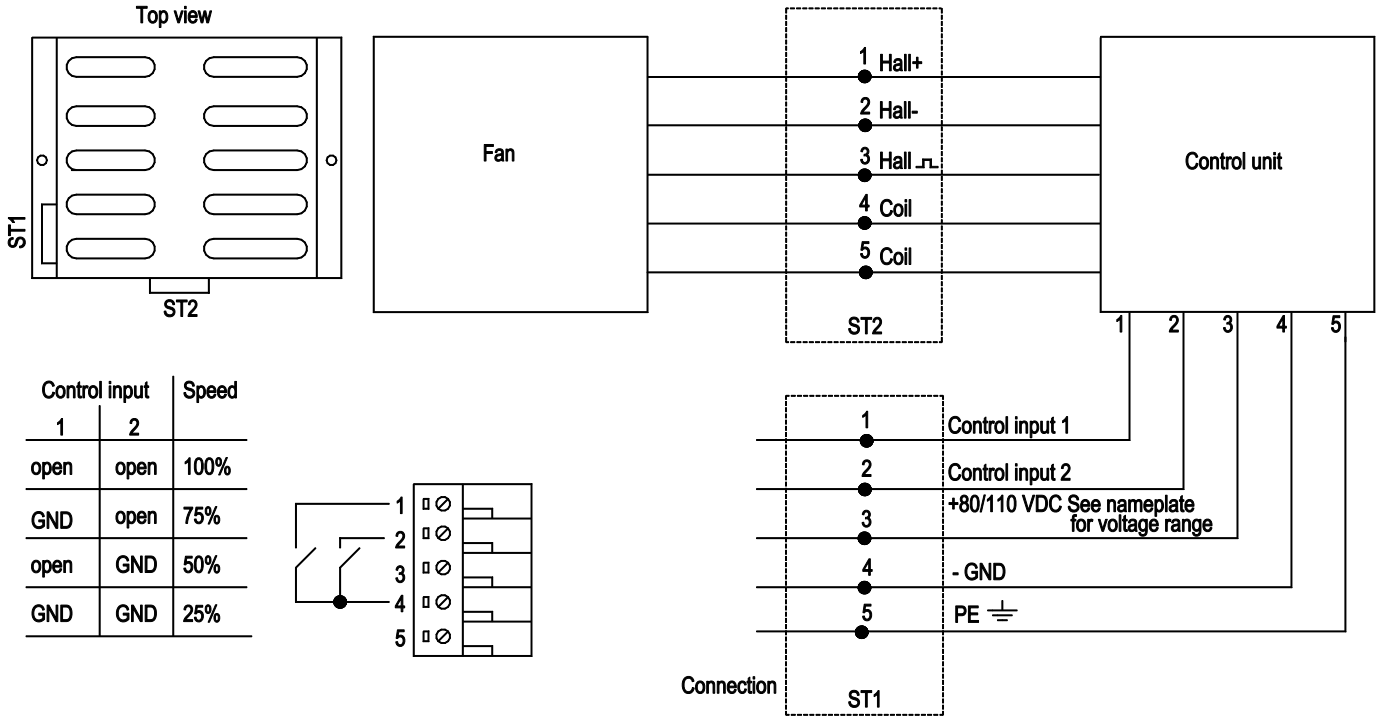
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Connection diagram



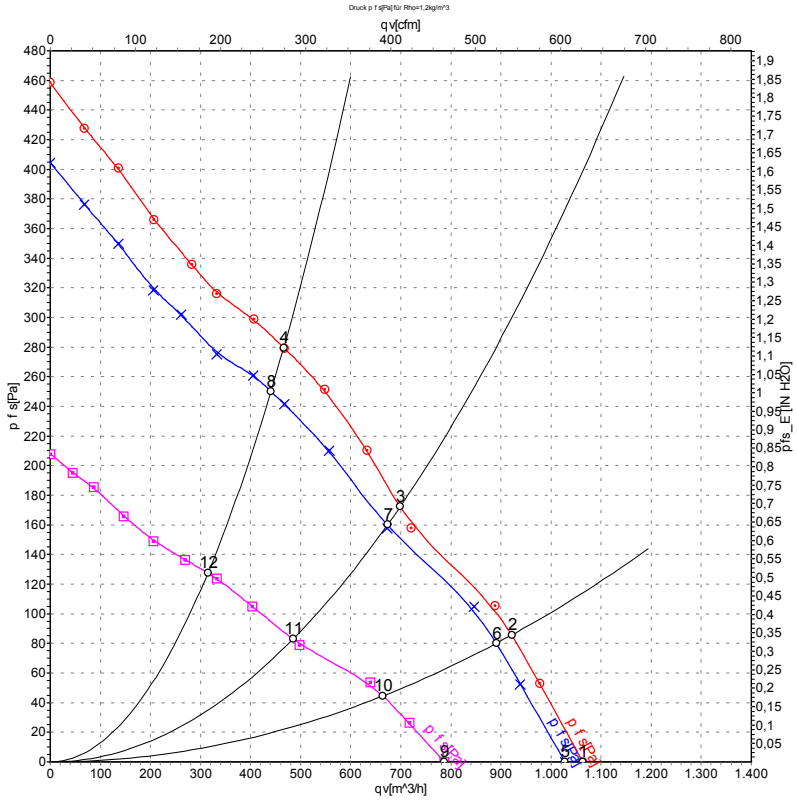
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Curves: Air performance



Measurement: LU-57736-1
Measurement: LU-57735-1
Measurement: LU-57737-1

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	121	1615	133	1.36	1065	0	625	0.00
2	121	1785	124	1.23	920	86	545	0.35
3	121	2050	112	1.06	700	171	410	0.69
4	121	2330	93	0.86	465	280	275	1.12
5	110	1550	120	1.30	1030	0	605	0.00
6	110	1715	111	1.18	890	80	525	0.32
7	110	1965	99	1.02	675	160	395	0.64
8	110	2200	80	0.81	440	250	260	1.00
9	67	1210	55	0.94	785	0	465	0.00
10	67	1305	49	0.83	665	45	390	0.18
11	67	1435	41	0.68	485	82	285	0.33
12	67	1585	33	0.57	315	128	185	0.51

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

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