D3G133-DD10-10

EC centrifugal fan

forward-curved, dual-intake

with housing (without flange)

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Nominal data

Type	**D3G133-DD10-10**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	110
Nominal voltage range	VDC	93 .. 127
Method of obtaining data		cs
External electronics		CEG485HB5001
Speed (rpm)	min^{-1}	2580
Power consumption	W	145
Current draw	A	1.32
Min. back pressure	Pa	320
Min. back pressure	in. wg	1.28
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to Commission Regulation (EU) 327/2011 (EN 17166)

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	44.5	34
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		54.5	44
05 Variable speed drive		Yes	

09 Power consumption P_e	kW	0.26
09 Air flow q_v	m^3/h	755
09 Pressure increase p_{fs}	Pa	500
10 Speed (rpm) n	min^{-1}	3215
11 Specific ratio*		1.01

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = 1 + p_{fs} / 100 000 Pa

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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	Counterclockwise, viewed toward rotor
Degree of protection	IP42
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1

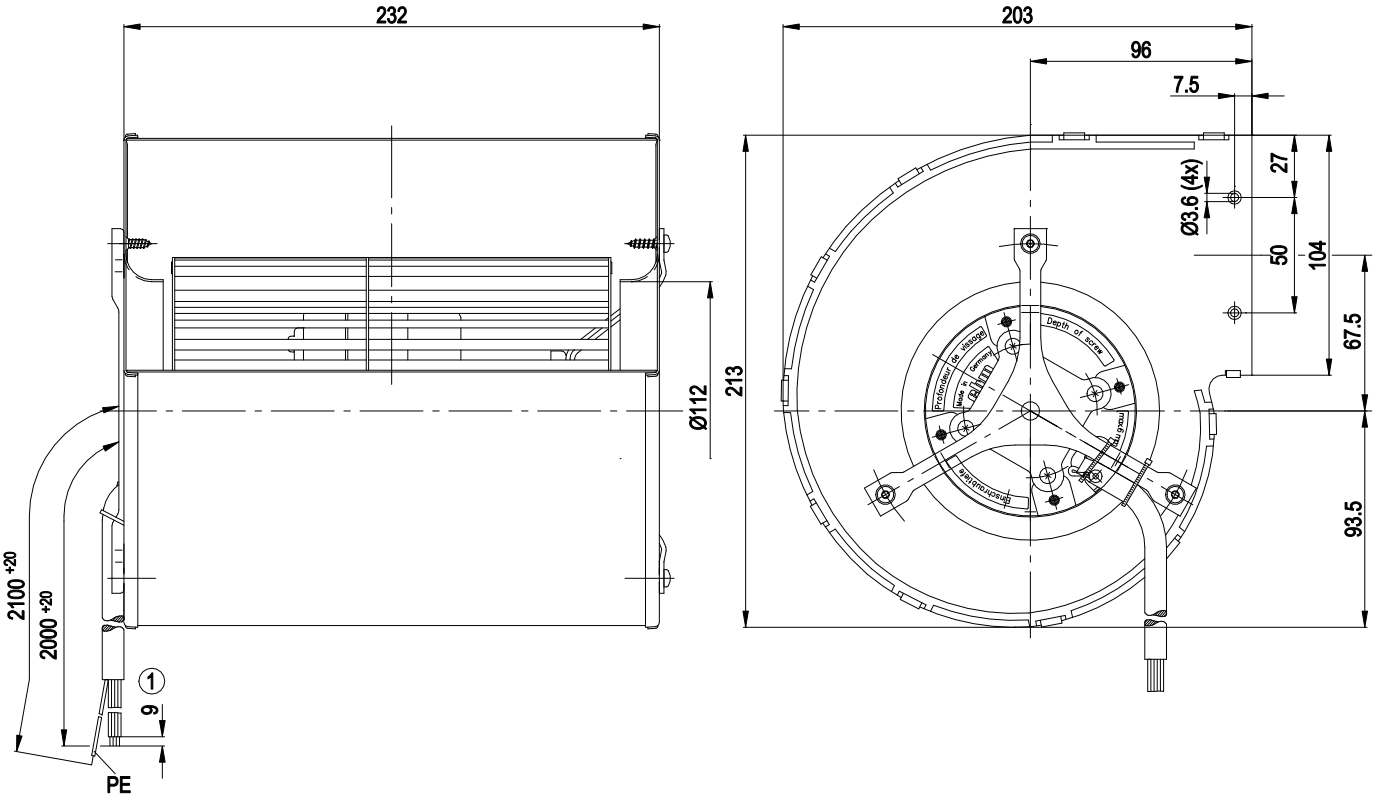
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Product drawing



1	Cable Dipotherm 6x 0.5 mm², 4x 1.0 mm² sheathed in heat shrink tube, tin-plated wire ends.
2	Accessory part: external electronics CEG485-HB50-01, not included in scope of delivery (not illustrated)

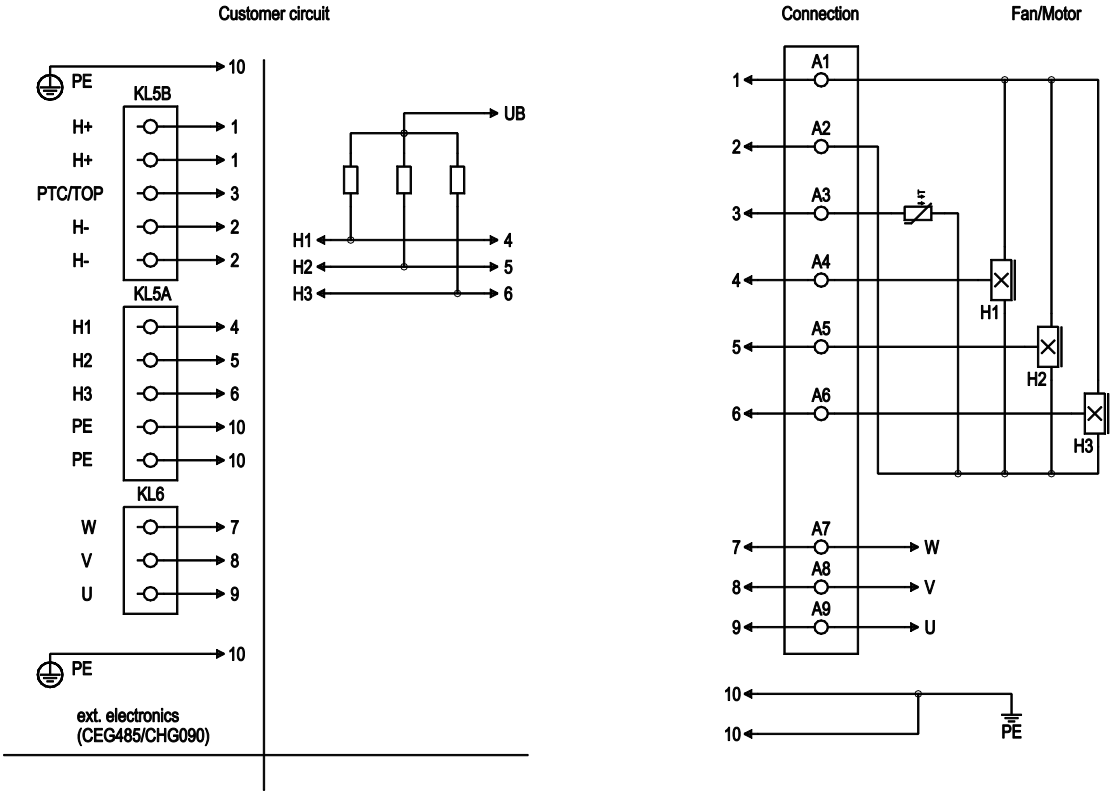
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Connection diagram



No.	Conn.	Designation	Function/assignment
KL5B	1	A1	+ (brown
KL5B	2	A2	- (blue)
KL5B	3	A3	PTC (yellow)
KL5A	4	A4	Hall 1 (gray) collector open, R to UB 4.5 V - 24 V
KL5A	5	A5	Hall 2 (white) collector open, R to UB 4.5 V - 24 V
KL5A	6	A6	Hall 3 (black) collector open, R to UB 4.5 V - 24 V
KL6	7	A7	W (brown/white)
KL6	8	A8	V (black/white)
KL6	9	A9	U (red/white)
	10	10	PE

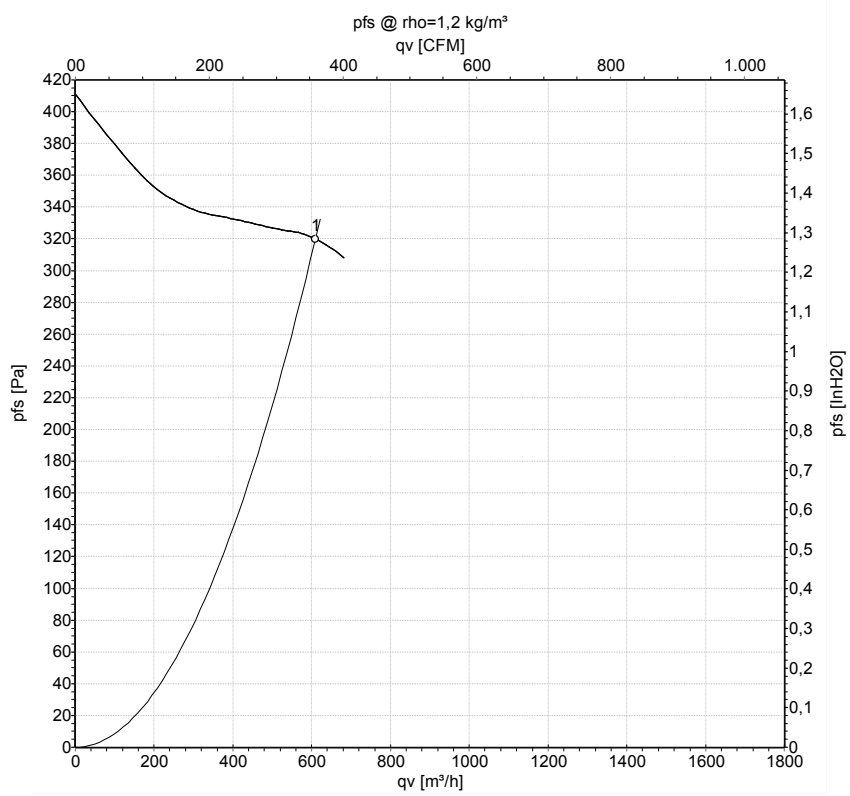
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Curves: Air performance



Measurement: LU-36013-1

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	110	2580	145	1.32	610	320	360	1.28

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

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