D3G133-DD67-13

EC centrifugal fan

forward-curved, dual-intake

with housing (flange)

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**D3G133-DD67-13**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	80
Nominal voltage range	VDC	50 .. 90
Frequency	Hz	DC
Method of obtaining data		ml
External electronics		CHG090AA0611
Speed (rpm)	min^{-1}	2920
Power consumption	W	315
Current draw	A	4
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	42.3	33.9
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		52.4	44
05 Variable speed drive		Yes	

09 Power consumption P_e	kW	0.25
09 Air flow q_v	m^3/h	755
09 Pressure increase p_{fs}	Pa	450
10 Speed (rpm) n	min^{-1}	3105
11 Specific ratio*		1.00

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

LU-126942

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Technical description

Weight	3.8 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	Counterclockwise, viewed toward rotor
Degree of protection	IP42; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
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
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1
Approval	EAC

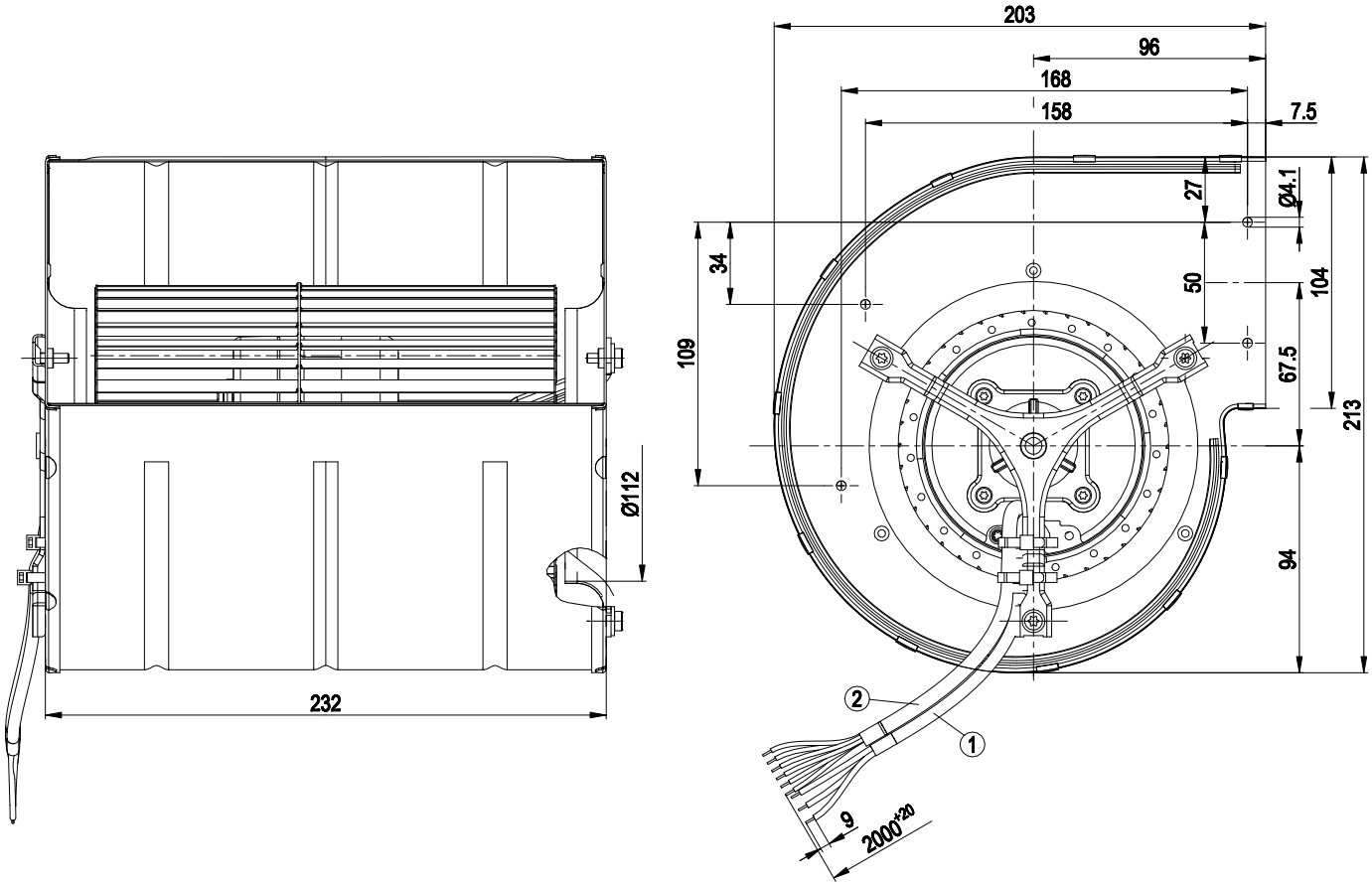
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Product drawing



1	Cable Dipotherm Nomex 3x 1.0 mm², 3x tin-plated wire end
2	Cable Dipotherm Nomex 6x 0.5 mm², 6x tin-plated wire end

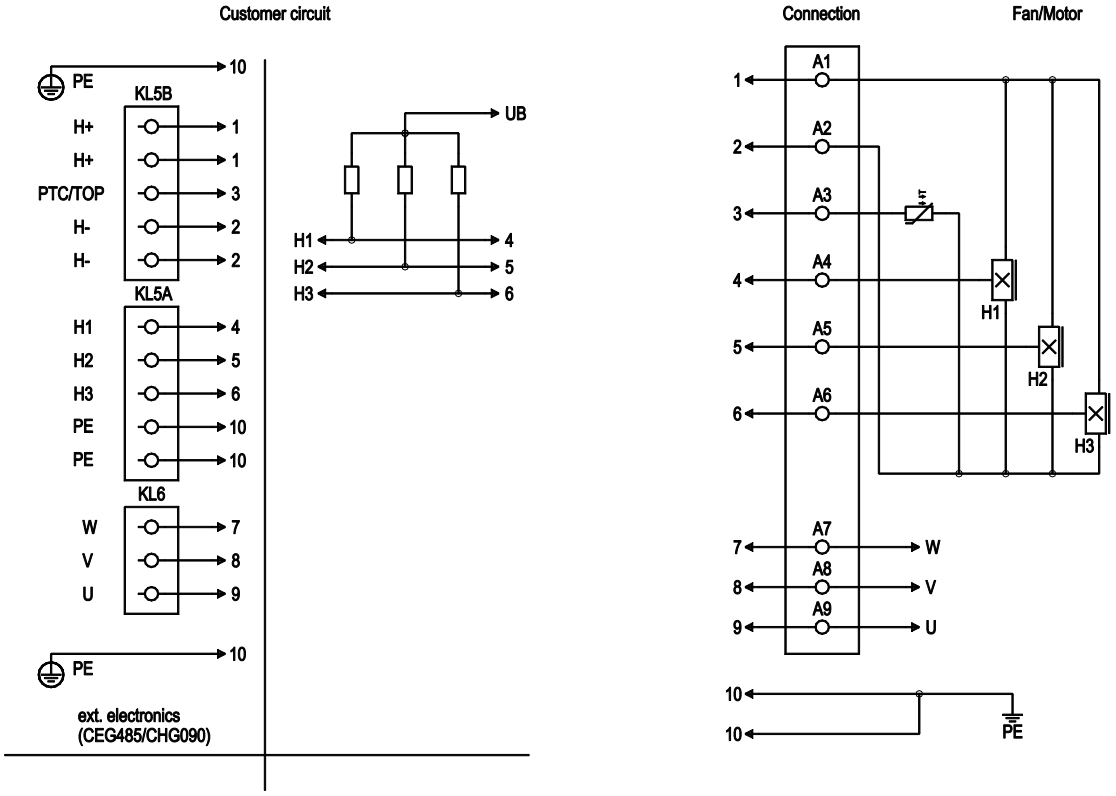
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Connection diagram



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

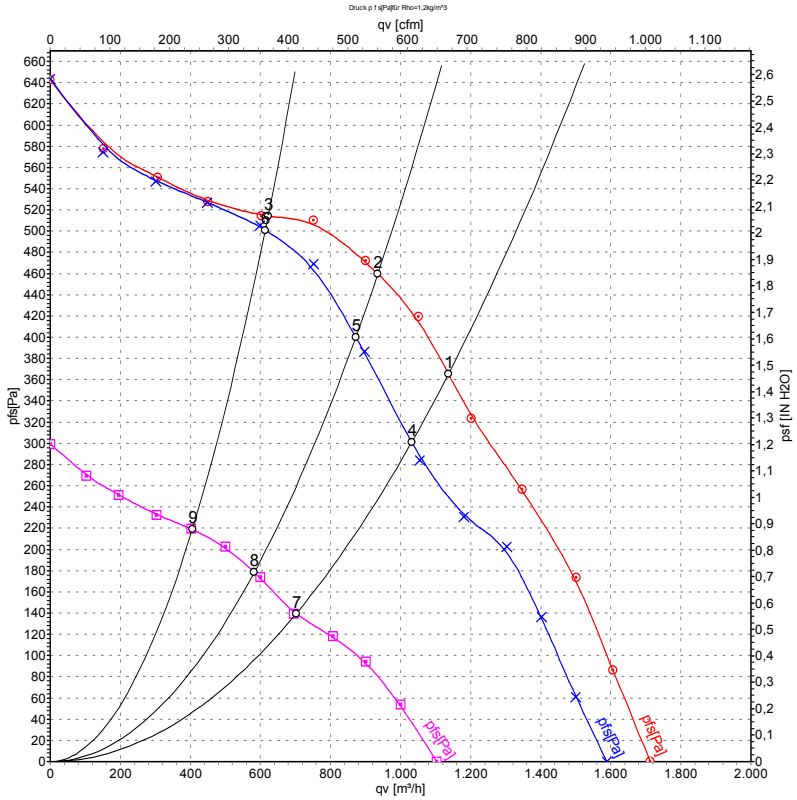
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Curves: Air performance



Measurement: LU-126943-1
Measurement: LU-126942-1
Measurement: LU-126944-1

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	m^3/h	Pa	CFM	inH2O
1	90	3140	415	4.61	1135	365	670	1.47
2	90	3205	346	3.85	935	460	550	1.85
3	90	3215	235	2.61	620	514	365	2.06
4	80	2920	315	4.00	1030	300	605	1.20
5	80	3015	281	3.51	870	400	515	1.61
6	80	3185	221	2.77	615	500	360	2.01
7	50	1985	110	2.21	700	138	415	0.55
8	50	2040	98	1.97	580	179	345	0.72
9	50	2125	76	1.53	405	219	240	0.88

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

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