D3G133-DD67-14

EC centrifugal fan

forward-curved, dual-intake

with housing (without flange), for rail applications

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Nominal data

Type	**D3G133-DD67-14**	
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

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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; installation- and position-dependent
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
Technical features	- Thermal overload protection for motor
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1
Approval	EAC

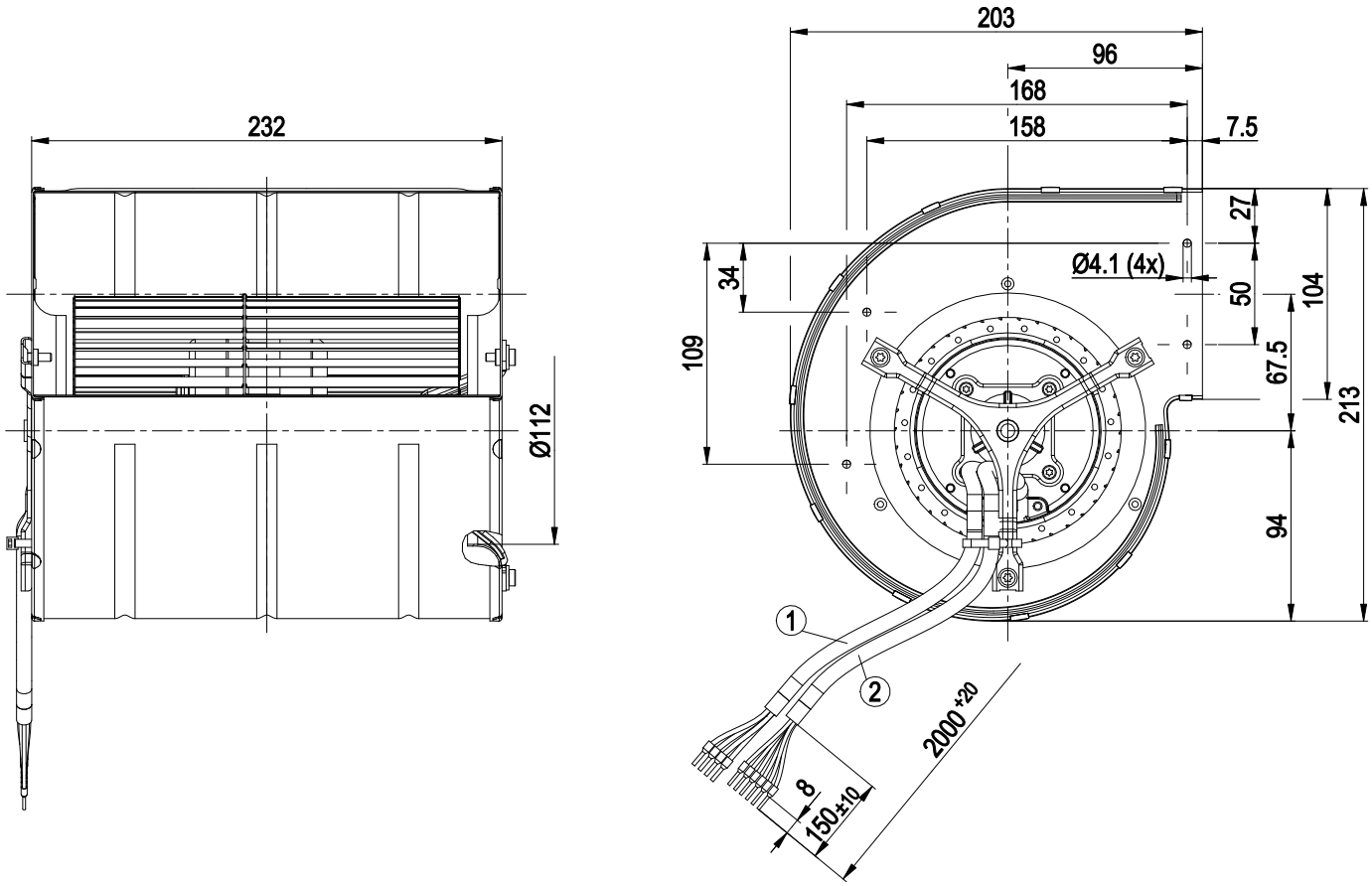
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Product drawing



1	Cable halogen-free, BETAtrans® 3 GKW flex, 4G 1.0 mm², 4x crimped ferrules
2	Cable halogen-free, BETAtrans® 3 GKW flex, black 6G 0.5 mm², 6x crimped ferrules

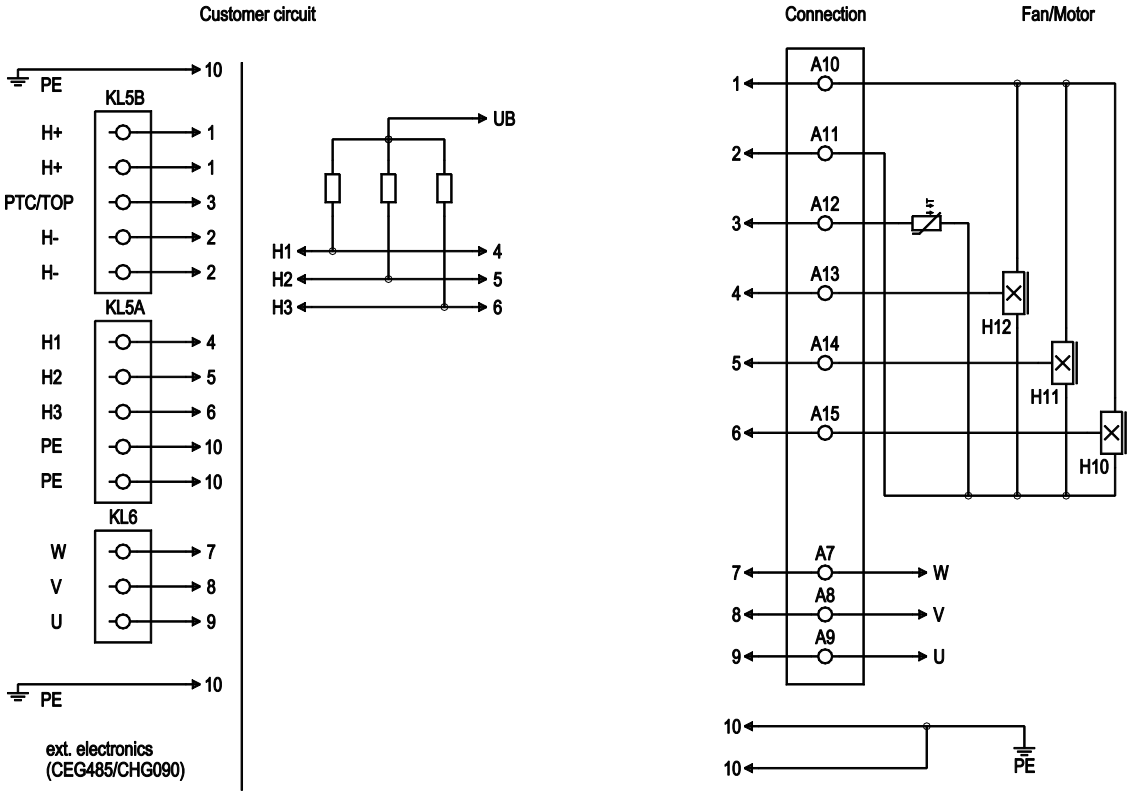
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
KL5B	1	A10	brown	+
KL5B	2	A11	blue	-
KL5B	3	A12	yellow	PTC
KL5A	4	A13	gray	Hall 12: Collector open, R to UB 4.5 V - 24 V
KL5A	5	A14	white	Hall 11: Collector open, R to UB 4.5 V - 24 V
KL5A	6	A15	black	Hall 10: Collector open, R to UB 4.5 V - 24 V
KL6	7	A7	brown	W
KL6	8	A8	black	V
KL6	9	A9	red	U
	10	10	green/yellow	PE

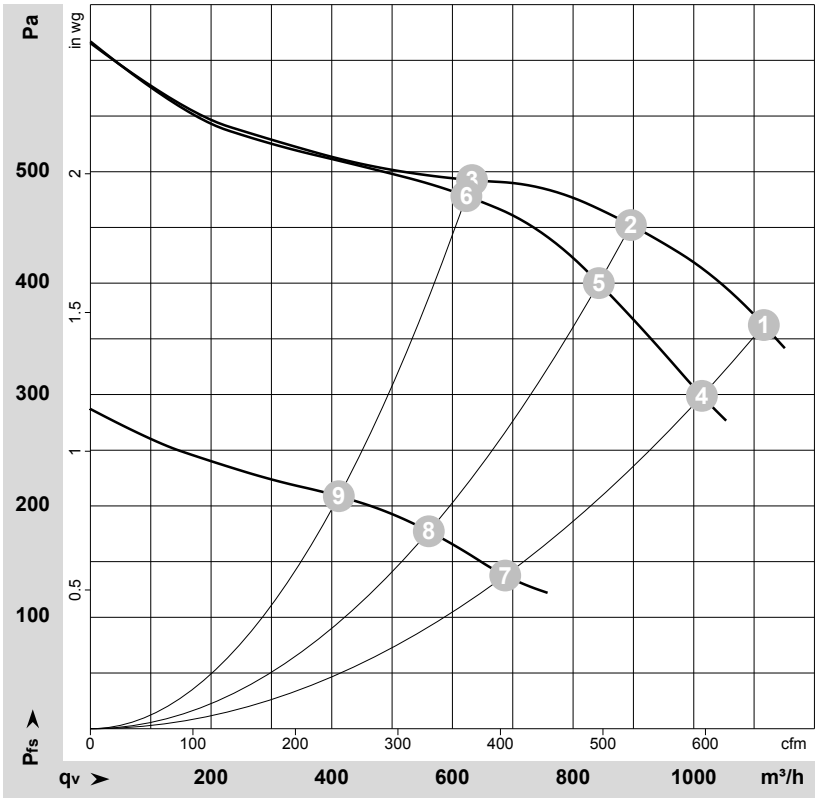
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Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

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	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	90	3155	408	4.53	1115	362	655	1.45
2	90	3205	333	3.70	895	454	525	1.82
3	90	3215	239	2.66	630	492	370	1.98
4	80	2920	315	4.00	1015	300	595	1.20
5	80	3035	274	3.42	845	400	495	1.61
6	80	3180	223	2.79	625	479	365	1.92
7	50	1990	109	2.18	690	136	405	0.55
8	50	2045	96	1.92	560	177	330	0.71
9	50	2120	77	1.54	410	209	240	0.84

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

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