G1G133-DE55-25

EC centrifugal fan

forward-curved, single-intake

with housing (without flange)

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Nominal data

Type	**G1G133-DE55-25**	
Motor	**M1G055-BD**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Status		prelim.
Speed (rpm)	min^{-1}	1600
Power consumption	W	21
Min. back pressure	Pa	0
Min. back pressure	inH2O	0
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	1.5 kg
Fan size	133 mm
Rotor surface	Thick-film passivated
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F5
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 - PWM control input - Overvoltage detection
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60950-1

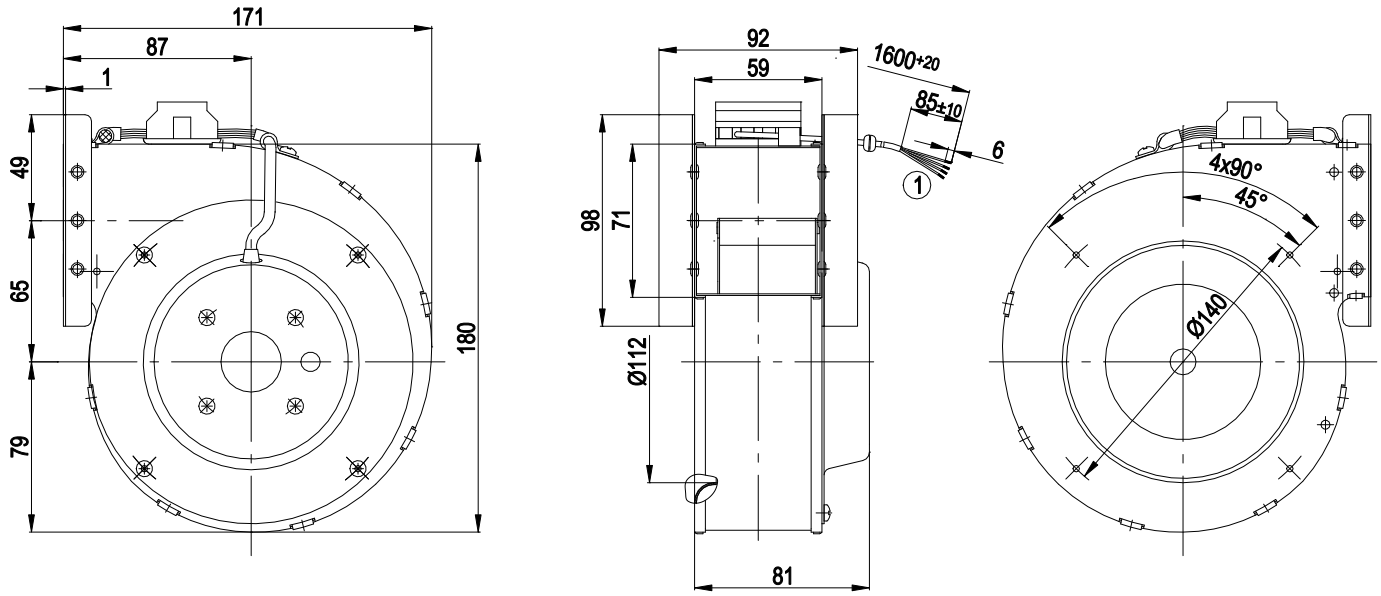
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Product drawing



1	Cable silicone 4G 0.5 mm², 4x crimped ferrules

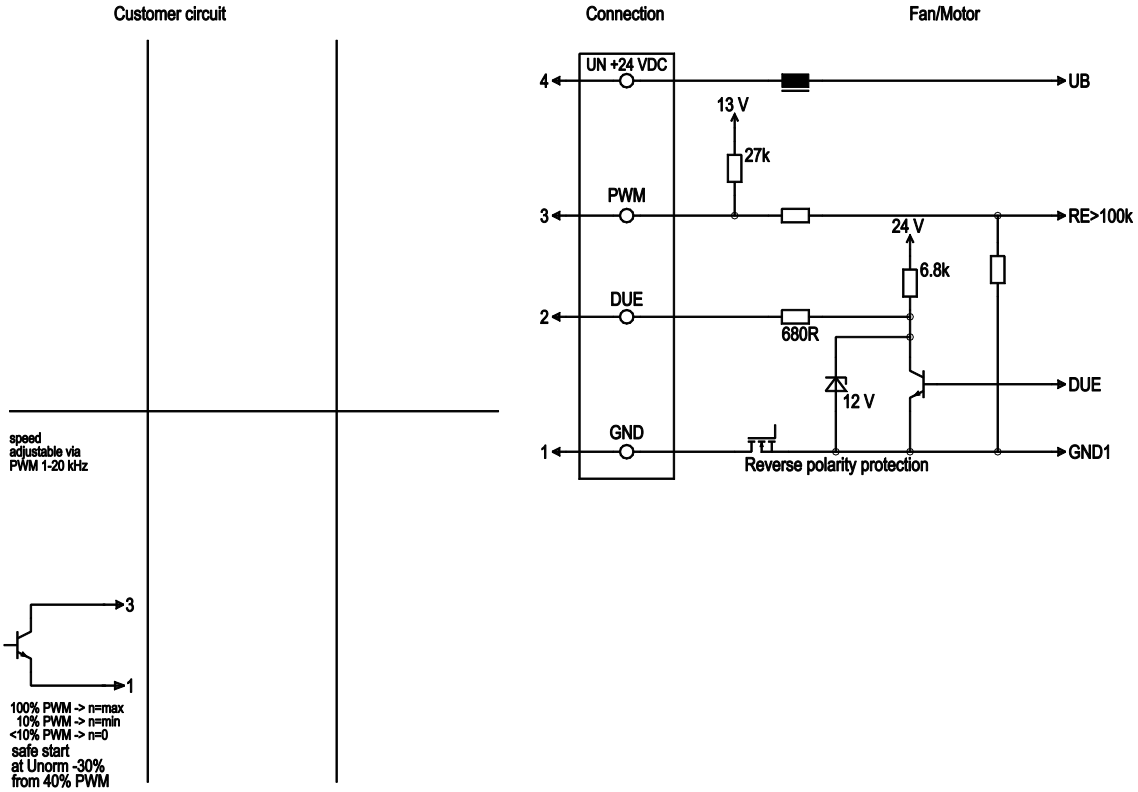
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	GND	blue	Reference ground
1	2	DUE	white	Tach output, 2 pulses per revolution, Isink max = 10 mA
1	3	PWM	yellow	Control input Re > 100 k
1	4	UN +24 VDC	red	Power supply 24 VDC, maximum ripple 3.5%

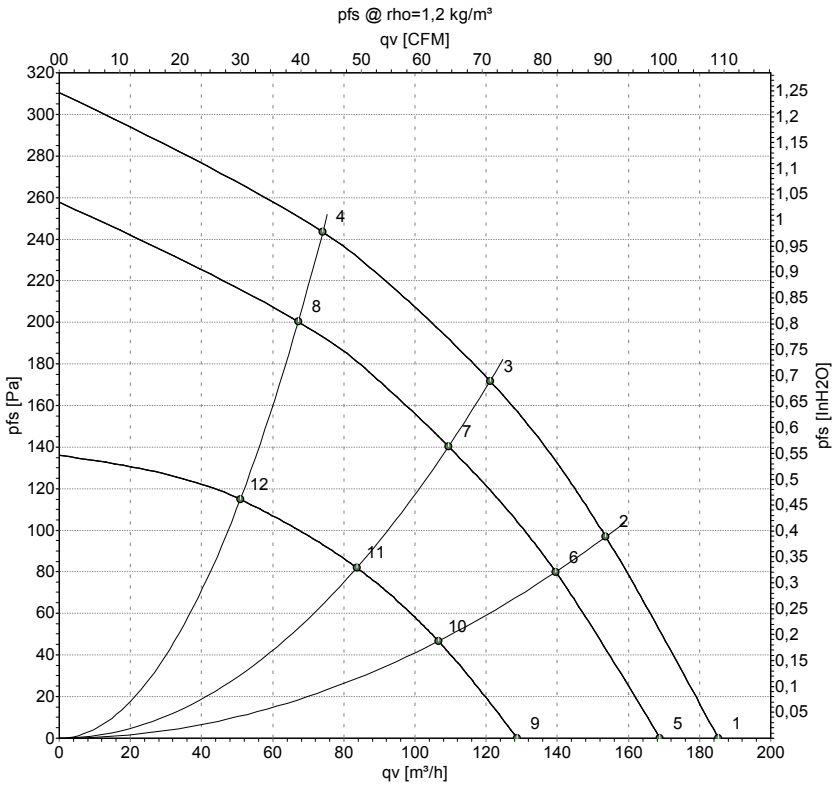
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Curves: Air performance



Measurement: LU-29090-1
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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	28	1760	29	1.13	185	0	110	0.00
2	28	1885	25	0.98	155	98	90	0.39
3	28	2045	21	0.81	120	172	70	0.69
4	28	2300	17	0.64	75	245	45	0.98
5	24	1600	21	0.96	170	0	100	0.00
6	24	1720	18	0.82	140	80	80	0.32
7	24	1860	16	0.70	110	140	65	0.56
8	24	2090	13	0.56	65	200	40	0.80
9	16	1235	10.0	0.62	130	0	75	0.00
10	16	1320	9.0	0.56	105	47	65	0.19
11	16	1420	8.0	0.51	85	82	50	0.33
12	16	1565	7.0	0.47	50	115	30	0.46

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

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