

R1G190-AC11-52

EC centrifugal fan

backward-curved, single-intake



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R1G190-AC11-52	
Motor	M1G074-BF	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	3200
Power consumption	W	71
Current draw	A	1.65
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

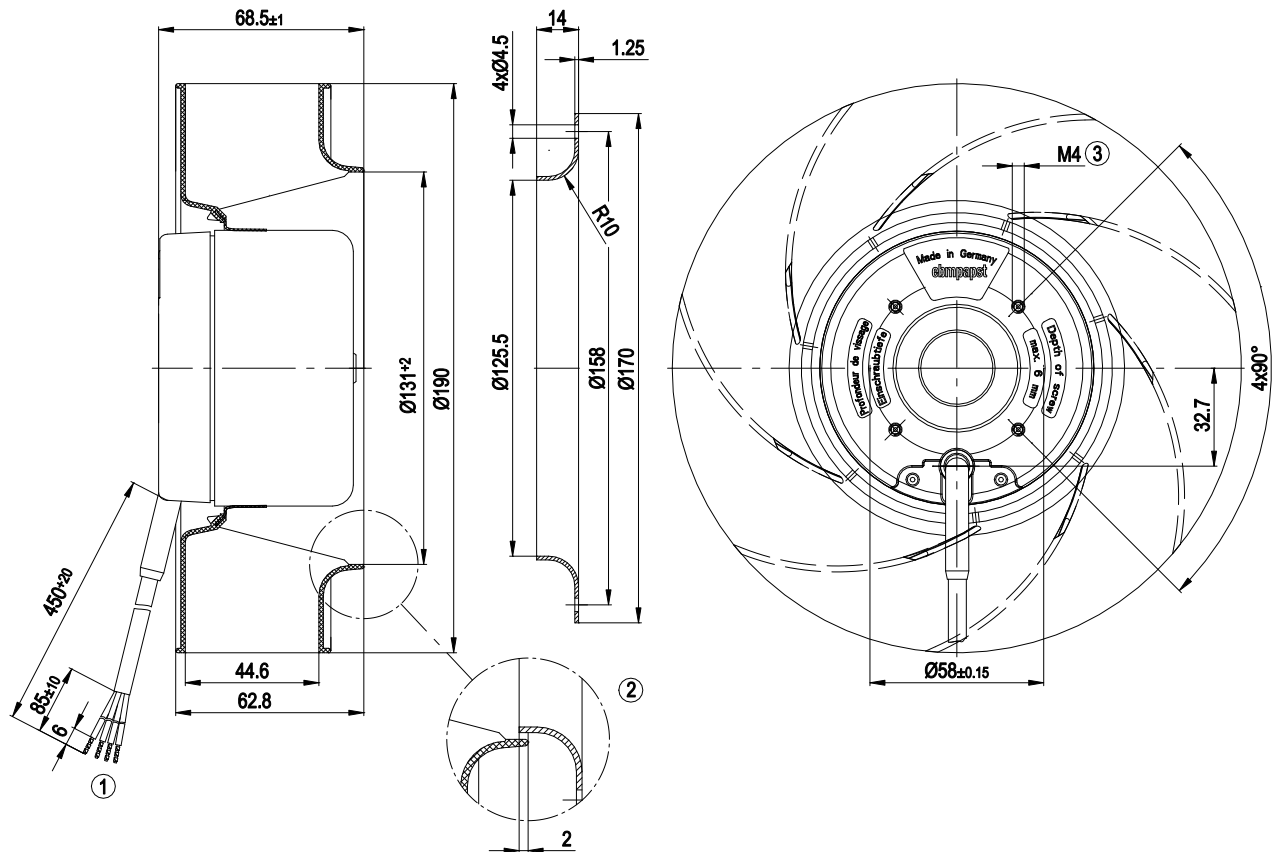
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

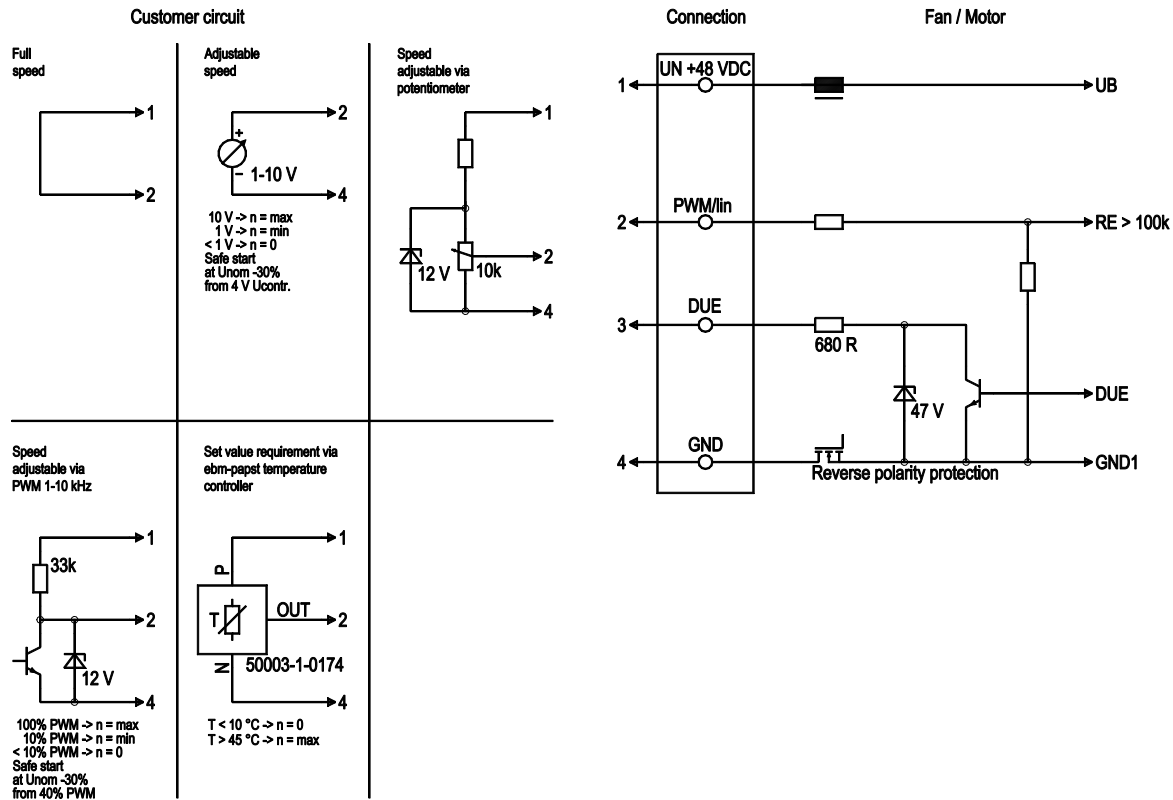
Weight	1.3 kg
Fan size	190 mm
Rotor surface	Painted black
Impeller material	PA 6.6 plastic, glass-fiber reinforced
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP42
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F0
Max. permitted 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	<ul style="list-style-type: none"> - Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM
EMC immunity to interference	According to EN 61000-6-2
EMC interference emission	According to EN 61000-6-3
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1
Approval	CSA C22.2 No. 77; CCC; EAC; UL 1004-1

Product drawing



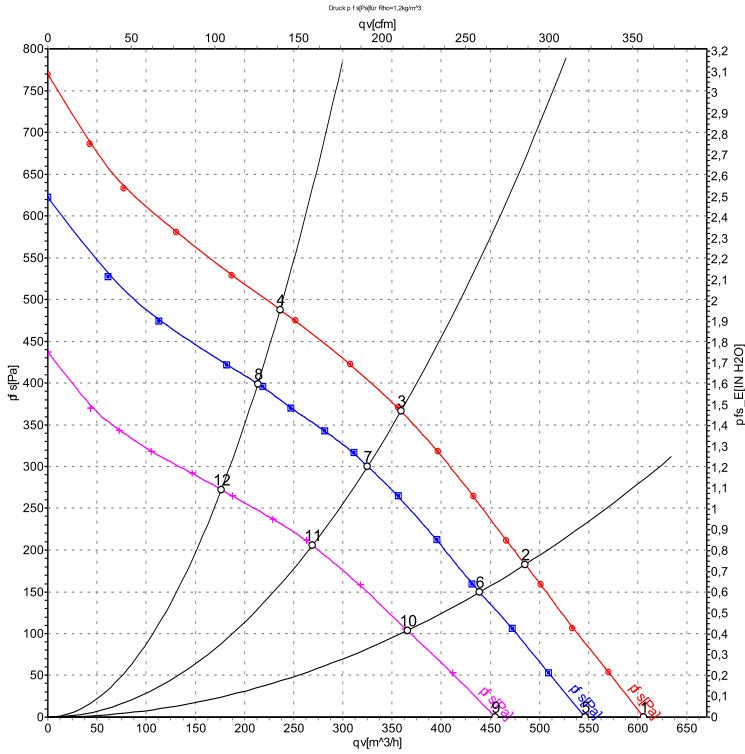
1	Cable AWG20, 4x crimped splices
2	Accessory part: inlet ring 09576-2-4013 not included in scope of delivery
3	Max. clearance for screw 6 mm

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	Un +48 VDC	red	Power supply 48 VDC, maximum ripple 3.5%
1	2	0-10 VDC	yellow	Control input Re > 100k
1	3	Tach	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

Curves: Air performance



Measurement: LU-50036-1
 Measurement: LU-50035-1
 Measurement: LU-50037-1

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	57	3560	96	1.89	605	0	355	0.00
2	57	3485	99	1.96	485	183	285	0.73
3	57	3545	96	1.89	360	367	210	1.47
4	57	3610	93	1.84	235	488	140	1.96
5	48	3200	71	1.65	545	0	320	0.00
6	48	3145	74	1.71	440	150	260	0.60
7	48	3200	72	1.67	325	300	190	1.20
8	48	3245	69	1.61	215	400	125	1.61
9	36	2670	42	1.30	455	0	270	0.00
10	36	2615	44	1.36	365	103	215	0.41
11	36	2655	42	1.31	270	206	160	0.83
12	36	2700	41	1.28	175	272	105	1.09

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



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