

R1G190-AC11-52

EC centrifugal fan

backward curved, single inlet

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Nominal data

Type	R1G190-AC11-52	
Motor	M1G074-BF	
Nominal voltage	[VDC]	48
Nominal voltage range	[VDC]	36 .. 57
Type of data definition		rfa
Speed	[min ⁻¹]	3200
Power input	[W]	71
Current draw	[A]	1.65
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	+ 60

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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Technical features

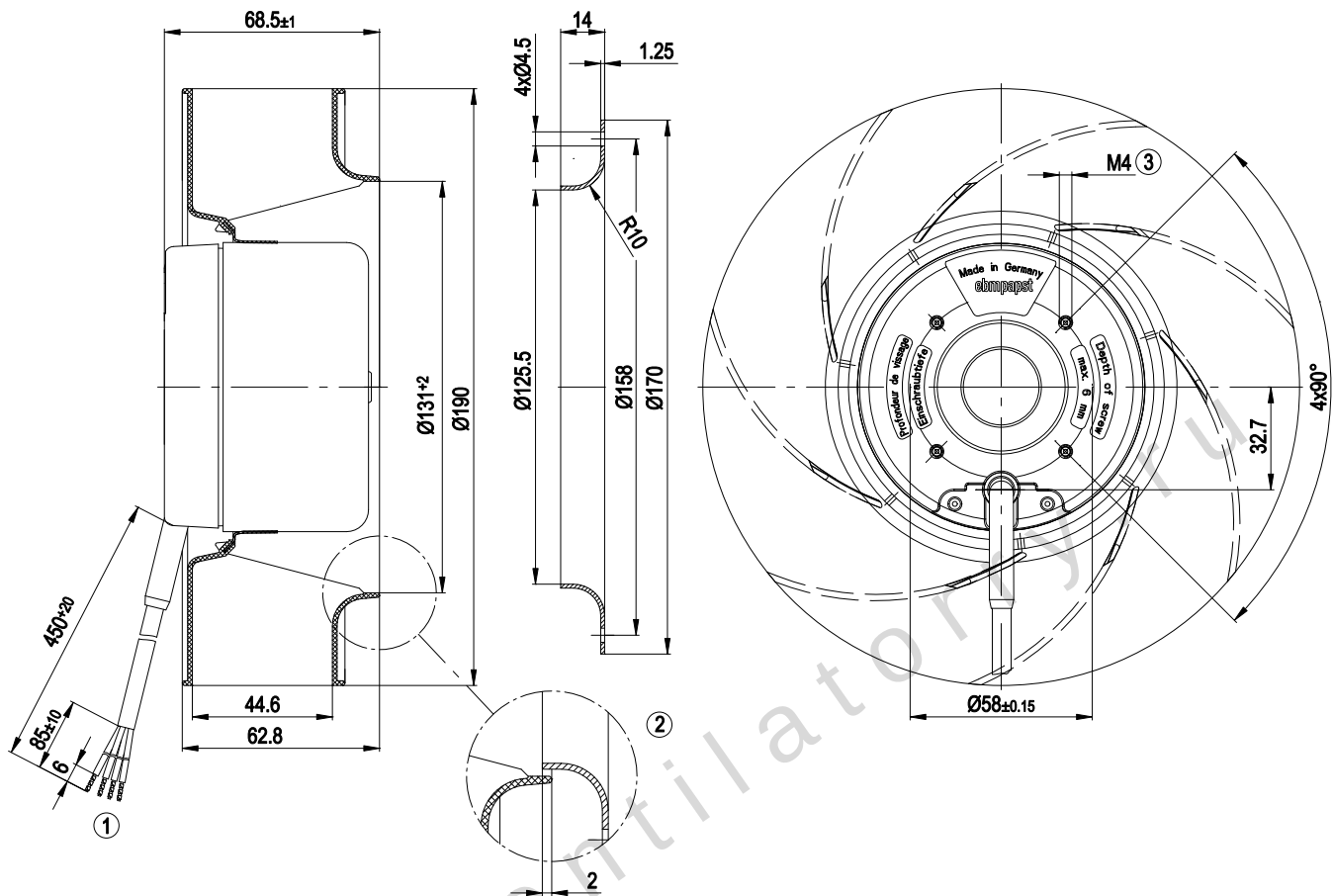
Size	190 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
EMC interference emission	Acc. to EN 61000-6-3
EMC interference immunity	Acc. to EN 61000-6-2
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	1.3 kg
Material of impeller	PA plastic 6.6, fiberglass-reinforced
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Surface of rotor	Coated in black
Number of blades	7
Type of protection	IP 42
Technical features	Control input 0-10 VDC / PWM, tach output
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CCC; CSA C22.2 Nr.77; UL 1004

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Product drawing



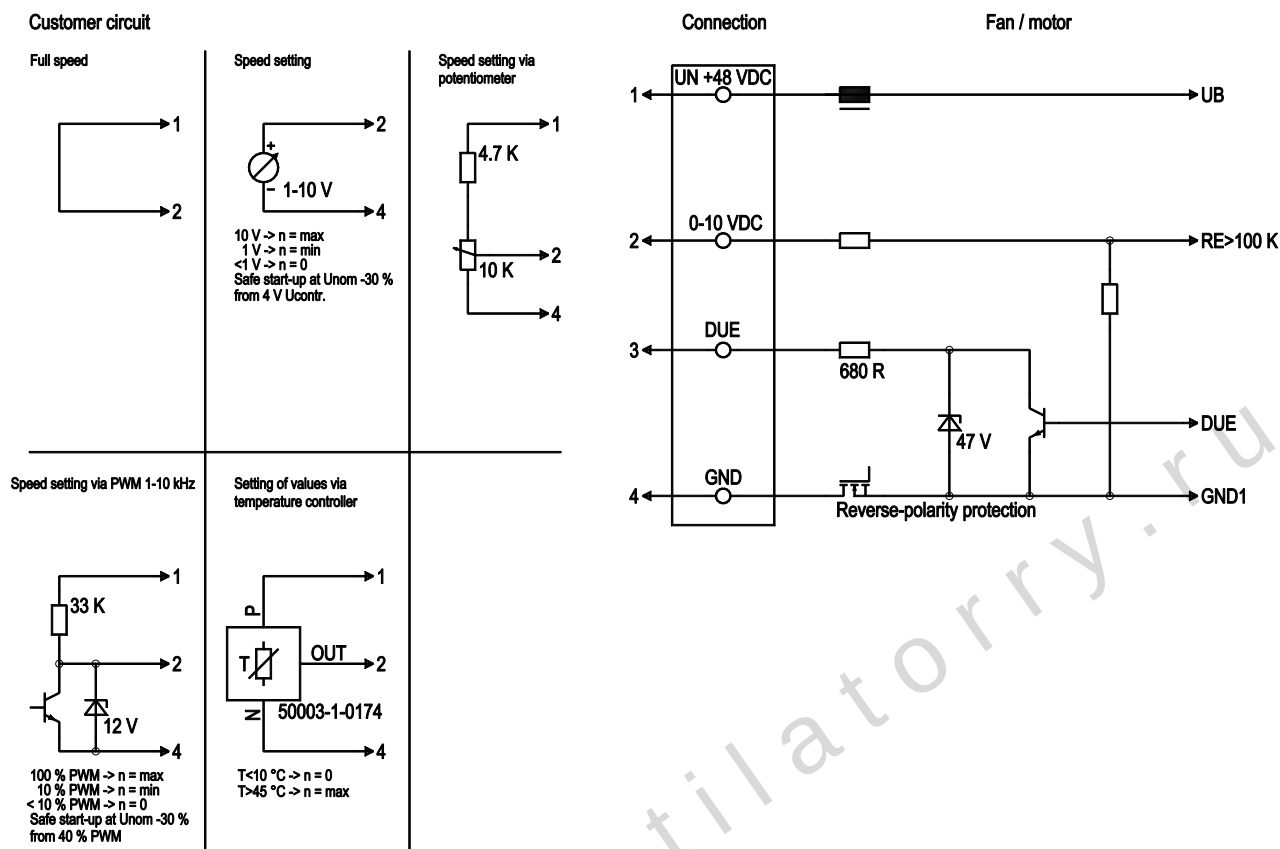
1	Connection line AWG20, 4 x brass lead tips crimped
2	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 6 mm

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Connection screen



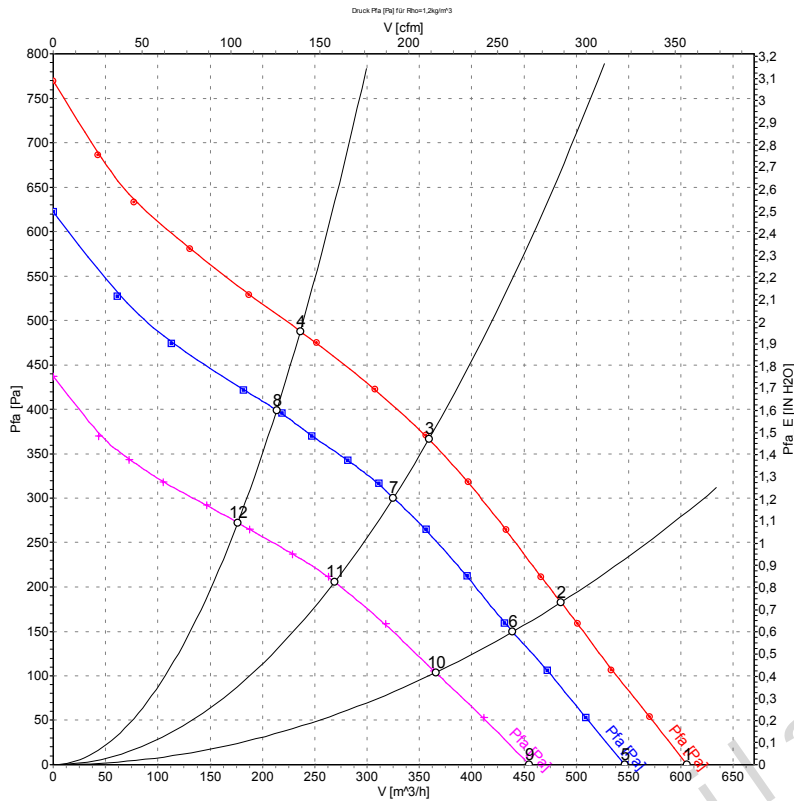
Line	No.	Signal	Colour	Function / assignment
1	1	Un +48 VDC	red	Power supply 48 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	DUE	white	Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA
1	4	GND	blue	Reference mass

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Charts: Air flow



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

Measured values

	U	n	P ₁	I	$\dot{V}$	p _{fa}
	[V]	[min ⁻¹]	[W]	[A]	[m³/h]	[Pa]
1	57	3560	96	1.89	605	0
2	57	3485	99	1.96	485	183
3	57	3545	96	1.89	360	367
4	57	3610	93	1.84	235	488
5	48	3200	71	1.65	545	0
6	48	3145	74	1.71	440	149
7	48	3200	72	1.67	325	300
8	48	3245	69	1.61	215	399
9	36	2670	42	1.30	455	0
10	36	2615	44	1.36	365	103
11	36	2655	42	1.31	270	206
12	36	2700	41	1.28	175	272