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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

**Nominal data**

Type	R1G190-AC37-52	
Motor	M1G074-BF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min <sup>-1</sup>	3250
Power consumption	W	80
Current draw	A	3.7
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



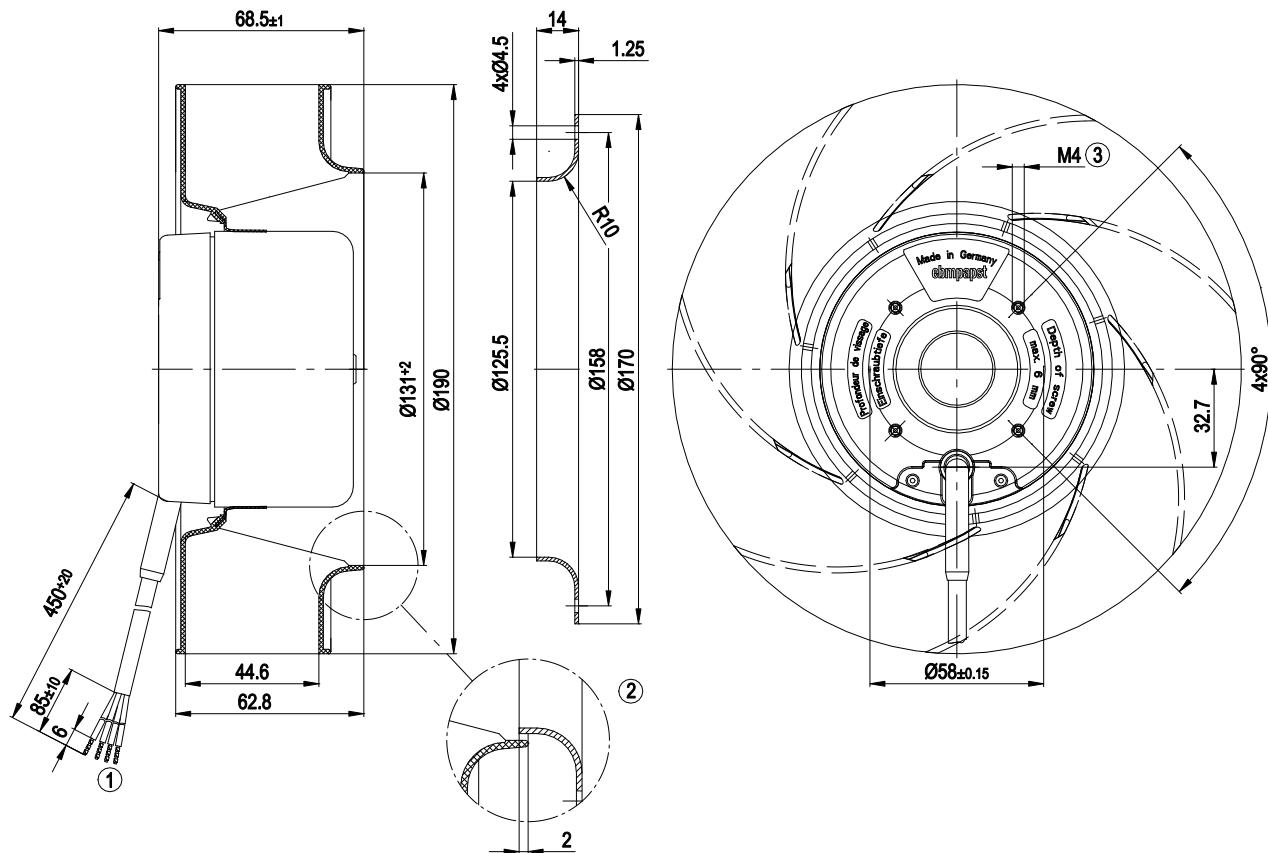
**Technical description**

<b>Weight</b>	1.3 kg
<b>Fan size</b>	190 mm
<b>Rotor surface</b>	Painted black
<b>Impeller material</b>	PA 6.6 plastic, glass-fiber reinforced
<b>Number of blades</b>	7
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP42
<b>Insulation class</b>	"B"
<b>Moisture (F) / Environmental (H) protection class</b>	F0
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	-40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	Control input 0-10 VDC / PWM, tach output
<b>EMC immunity to interference</b>	According to EN 61000-6-2
<b>EMC interference emission</b>	According to EN 61000-6-3
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>With cable</b>	Variable
<b>Conformity with standards</b>	EN 60950-1
<b>Approval</b>	EAC; CSA C22.2 No. 77; UL 1004-1

## EC centrifugal fan

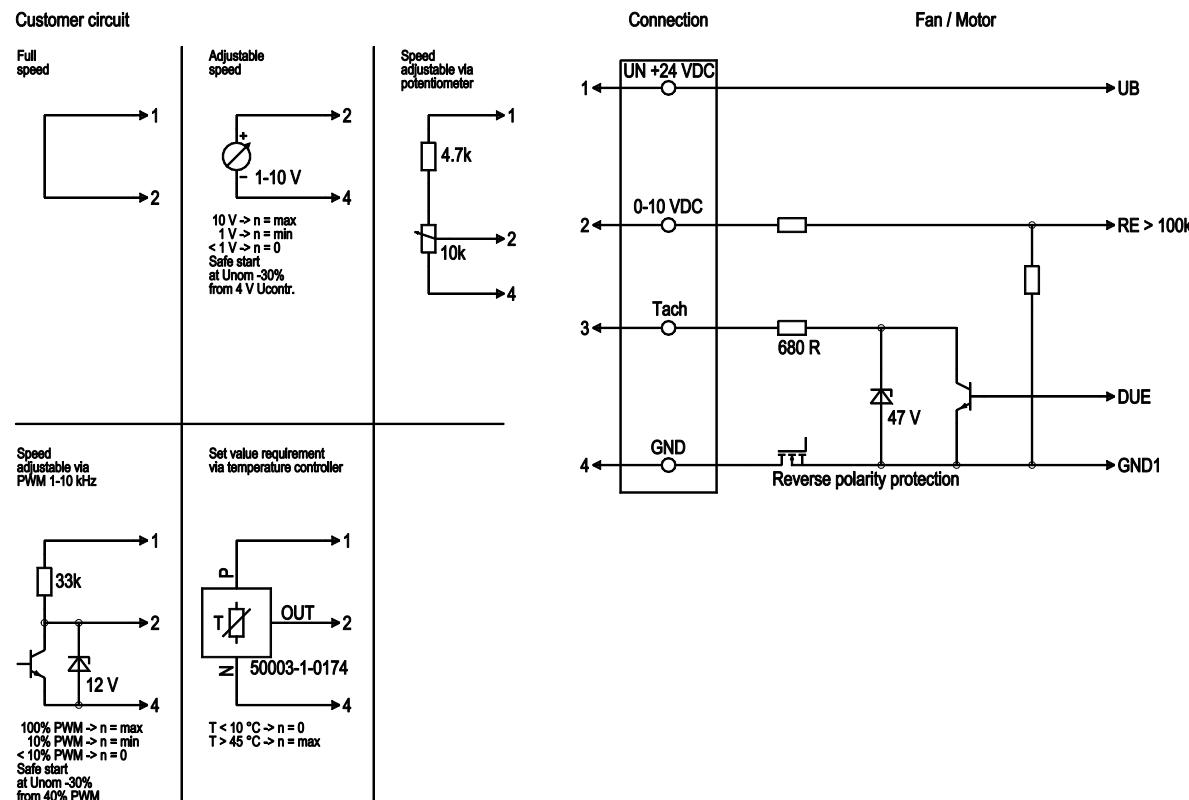
backward-curved, single-intake

## 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

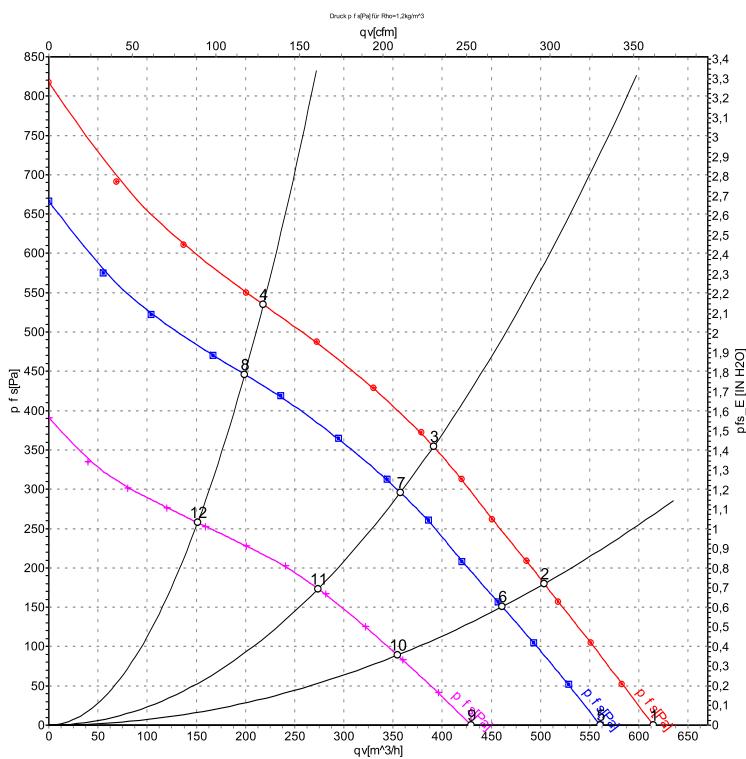


No.	Conn.	Designation	Color	Function/assignment
1	1	Un +24 VDC	red	Power supply 24 VDC, maximum ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100k
1	3	Tach	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

## EC centrifugal fan

backward-curved, single-intake

## Curves: Air performance



## Measured values

	U	n	P <sub>ed</sub>	I	q <sub>v</sub>	P <sub>fs</sub>	q <sub>v</sub>	P <sub>fs</sub>
	V	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	in. wg
1	28	3630	103	4.14	615	0	360	0.00
2	28	3540	107	4.30	505	180	295	0.72
3	28	3600	104	4.19	390	354	230	1.42
4	28	3705	100	4.01	220	535	130	2.15
5	24	3250	80	3.70	560	0	330	0.00
6	24	3230	82	3.82	460	150	270	0.60
7	24	3290	80	3.71	360	300	210	1.20
8	24	3380	76	3.53	200	450	115	1.81
9	16	2515	38	2.72	430	0	250	0.00
10	16	2470	39	2.80	355	89	210	0.36
11	16	2515	38	2.70	275	174	160	0.70
12	16	2560	36	2.61	150	258	90	1.04

U = Power supply · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

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