

R1G190-AC11-11

EC centrifugal fan

backward curved, single inlet



R1G190-AC11-11 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	R1G190-AC11-11	
Motor	M1G074-BF	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		fa
Speed	min ⁻¹	3200
Power input	W	71
Current draw	A	1.65
Max. ambient temperature	°C	60

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

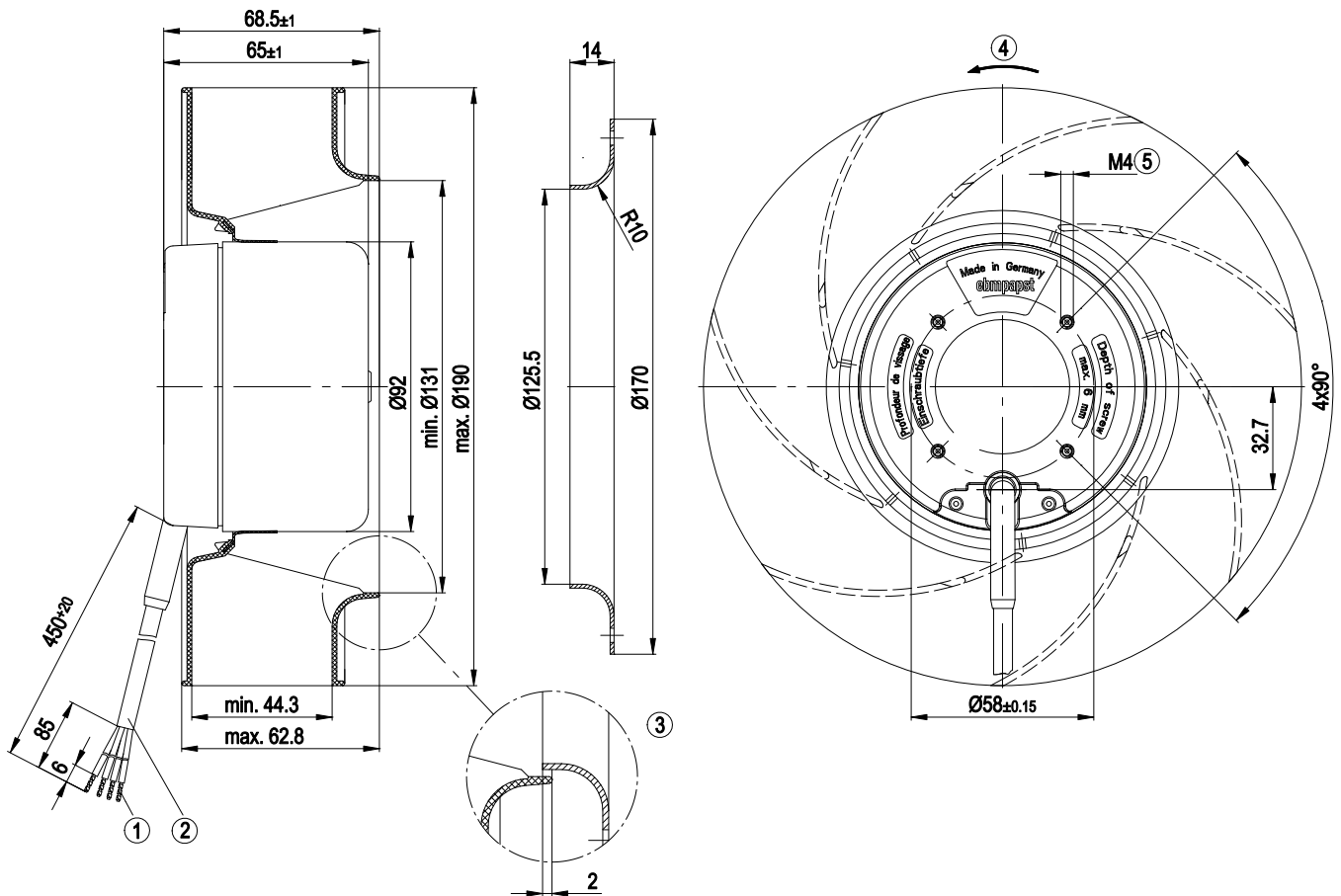


Technical features

Mass	1.43 kg
Size	190 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic 6.6, fiberglass-reinforced, round sheet-metal plate coated in black
Number of blades	7
Stability	Salt fog resistant in accordance with TELCORDIA GR-487-CORE, release No. 2, March 2000
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F4-2
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Tach output
EMC interference immunity	Acc. to EN 61000-6-2
EMC interference emission	Acc. to EN 55022 (Class B)
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Variable
Product conforming to standard	EN 60950-1
Approval	CSA C22.2 Nr.77; UL 1004-1; CCC

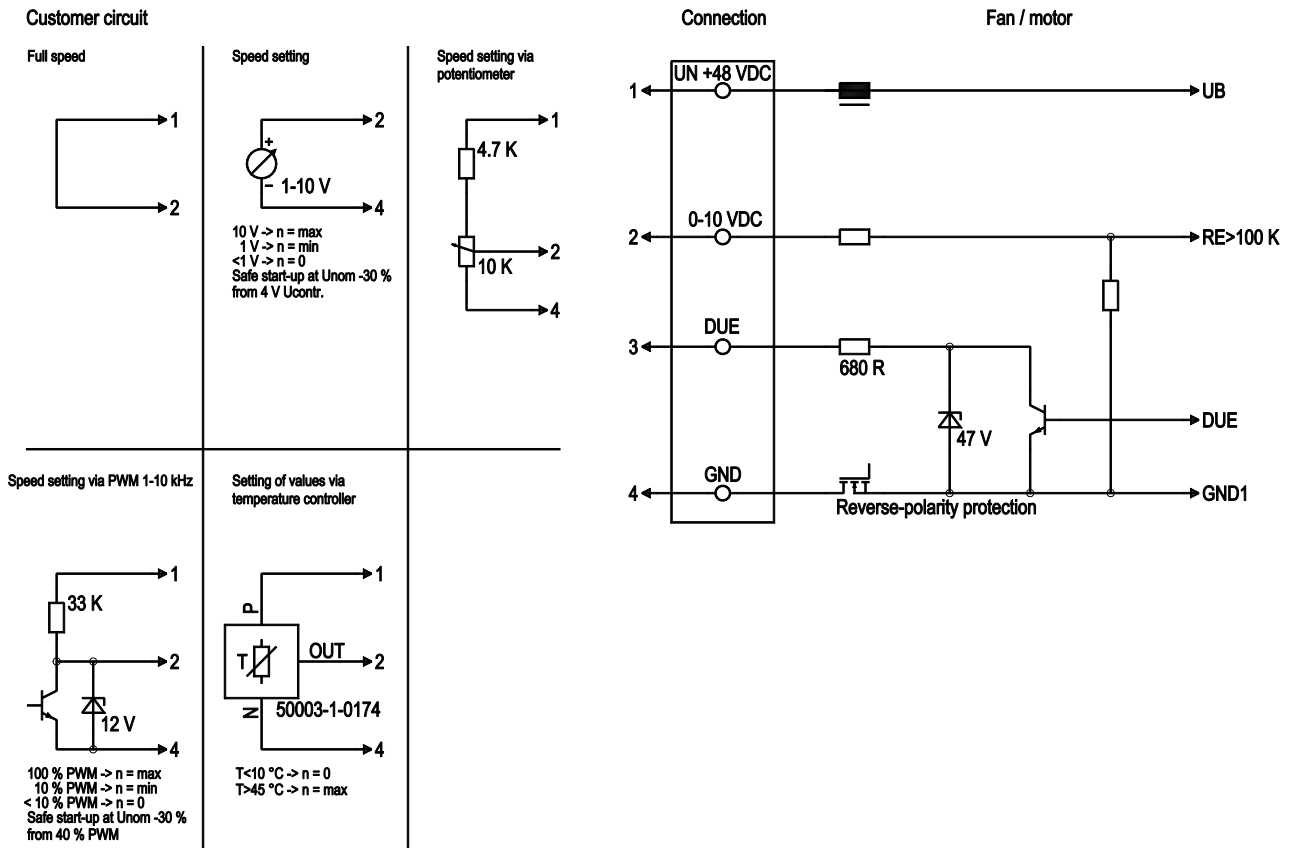


Product drawing



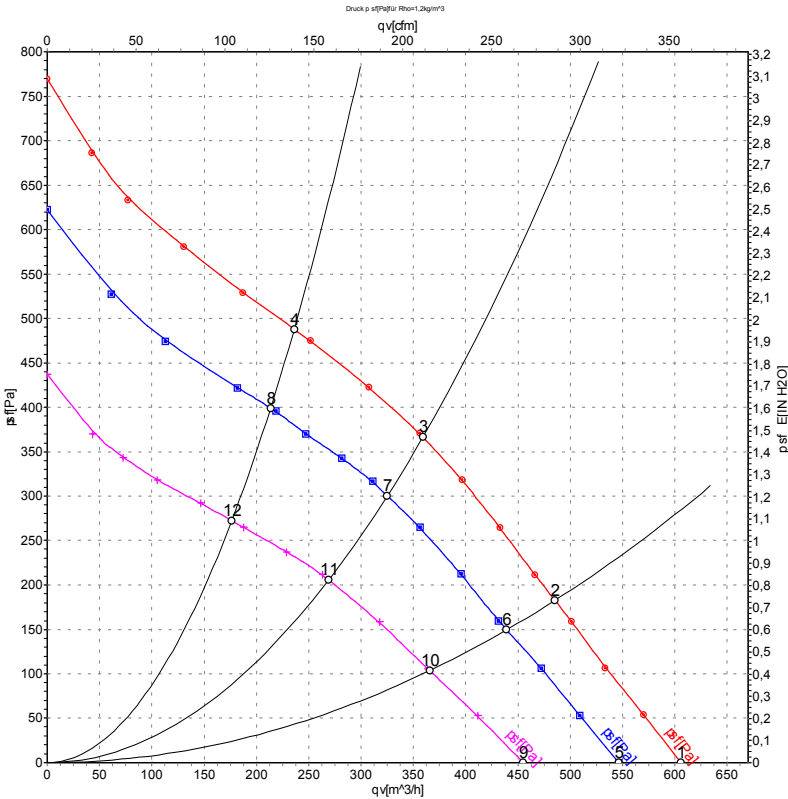
1	Brass lead tips
2	Connection line 4 x AWG20
3	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
4	Direction of rotation clockwise, seen on rotor
5	Screw depth max. 6 mm

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

Charts: Air flow



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

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	n	P _e	I	q _v	p _{sf}
	V	min ⁻¹	W	A	m ³ /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	150
7	48	3200	72	1.67	325	300
8	48	3245	69	1.61	215	400
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

