R1G133-AA65-36

EC centrifugal fan

backward curved, single inlet



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Nominal data

Type	**R1G133-AA65-36**	
Motor	**M1G055-BD**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		fa
Speed	min^{-1}	3900
Power input	W	28
Current draw	A	0.7
Min. ambient temperature	°C	- 25
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

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Technical features

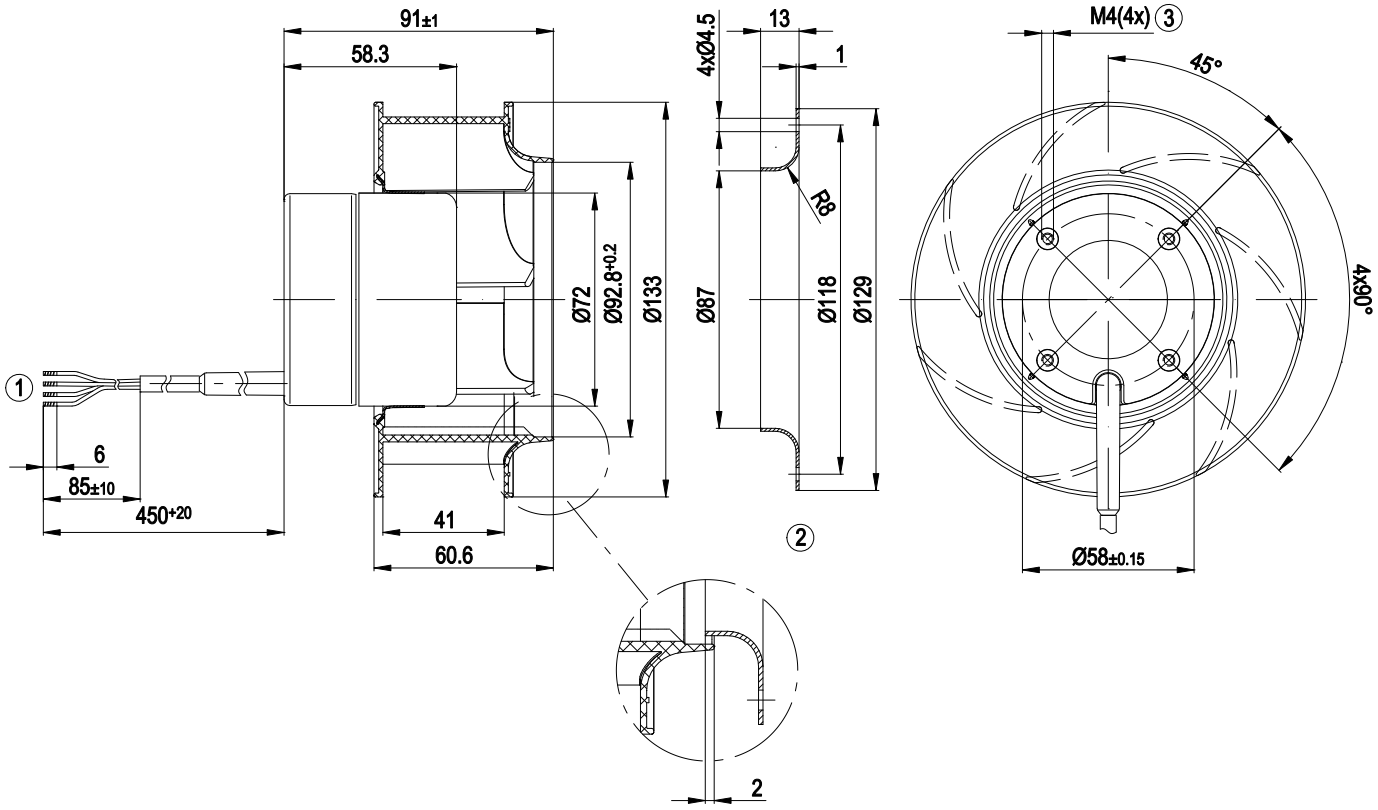
Mass	0.7 kg
Size	133 mm
Surface of rotor	Coated in black
Material of impeller	Plastic PA66, fibreglass-reinforced, round sheet-metal plate coated in black
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F4-2
Max. permissible 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	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Variable
Approval	CCC; CSA C22.2 Nr.77; UL 1004-1

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Product drawing



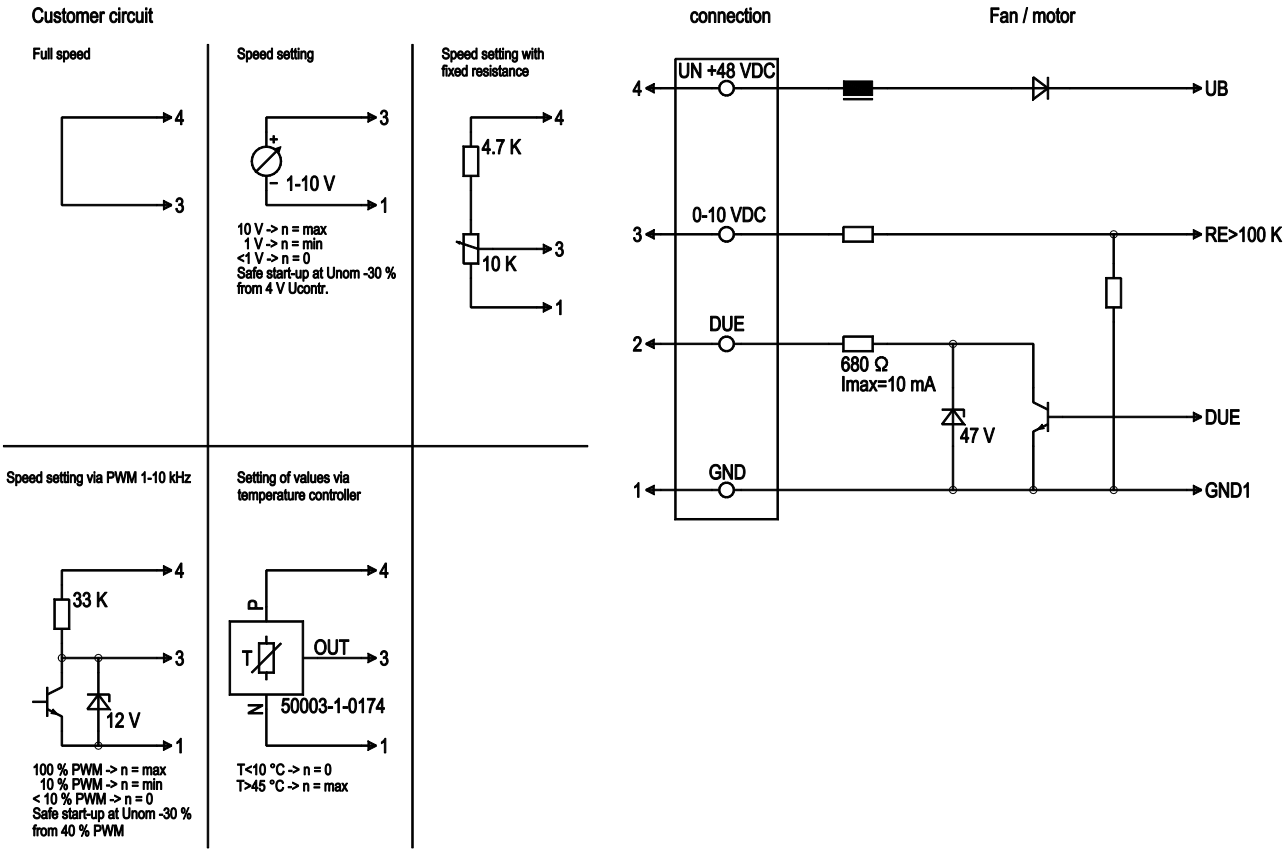
1	Connection line PVC 4X AWG20; 4x brass lead tips crimped
2	Accessory part: Inlet nozzle 09566-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 6 mm

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Connection screen



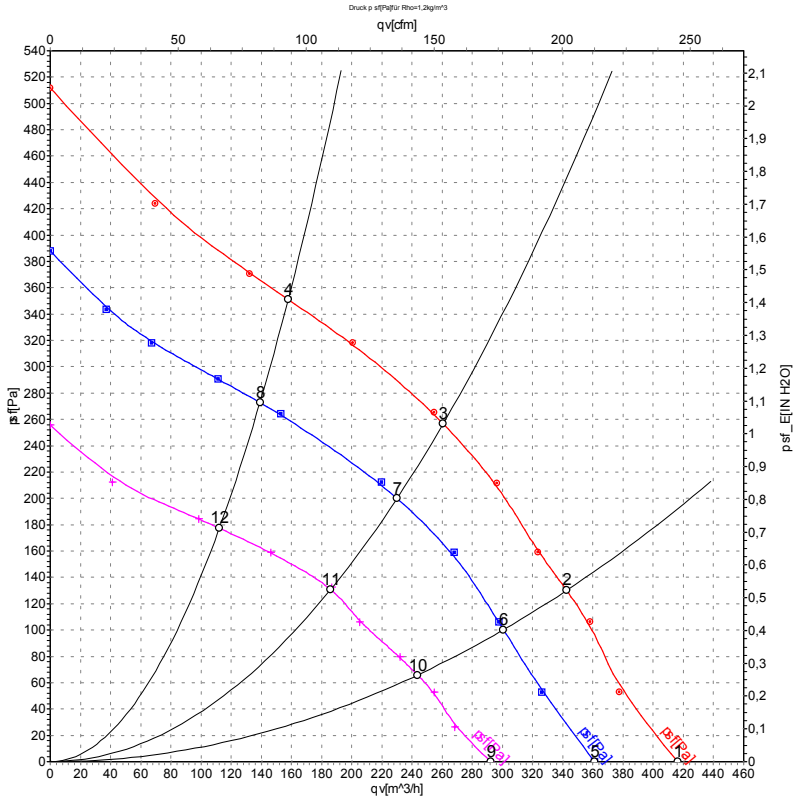
Line	No.	Signal	Colour	Function / assignment
1	1	GND	blue	Reference mass
1	2	DUE	white	Speed monitoring output, 2 pulses per rotation, Isink max = 10 mA
1	3	0-10 VDC	yellow	Control input Re > 100 K
1	4	Un +48 VDC	red	Power supply 48 VDC, residual ripple 3.5 %

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Charts: Air flow



Measurement: LU-54696
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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	qv	p_{sf}
	V	min^{-1}	W	A	m^3/h	Pa
1	57	4445	39	0.76	415	0
2	57	4275	44	0.84	340	130
3	57	4270	44	0.85	260	258
4	57	4345	42	0.81	160	351
5	48	3900	28	0.70	360	0
6	48	3775	31	0.71	300	100
7	48	3775	31	0.72	230	200
8	48	3825	30	0.69	140	275
9	36	3150	15	0.50	290	0
10	36	3050	17	0.55	245	66
11	36	3055	17	0.54	185	133
12	36	3100	16	0.52	110	177

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