

R1G133-AA65-36

EC centrifugal fan

backward-curved, single-intake



R1G133-AA65-36 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	R1G133-AA65-36	
Motor	M1G055-BD	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	3900
Power consumption	W	28
Current draw	A	0.7
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

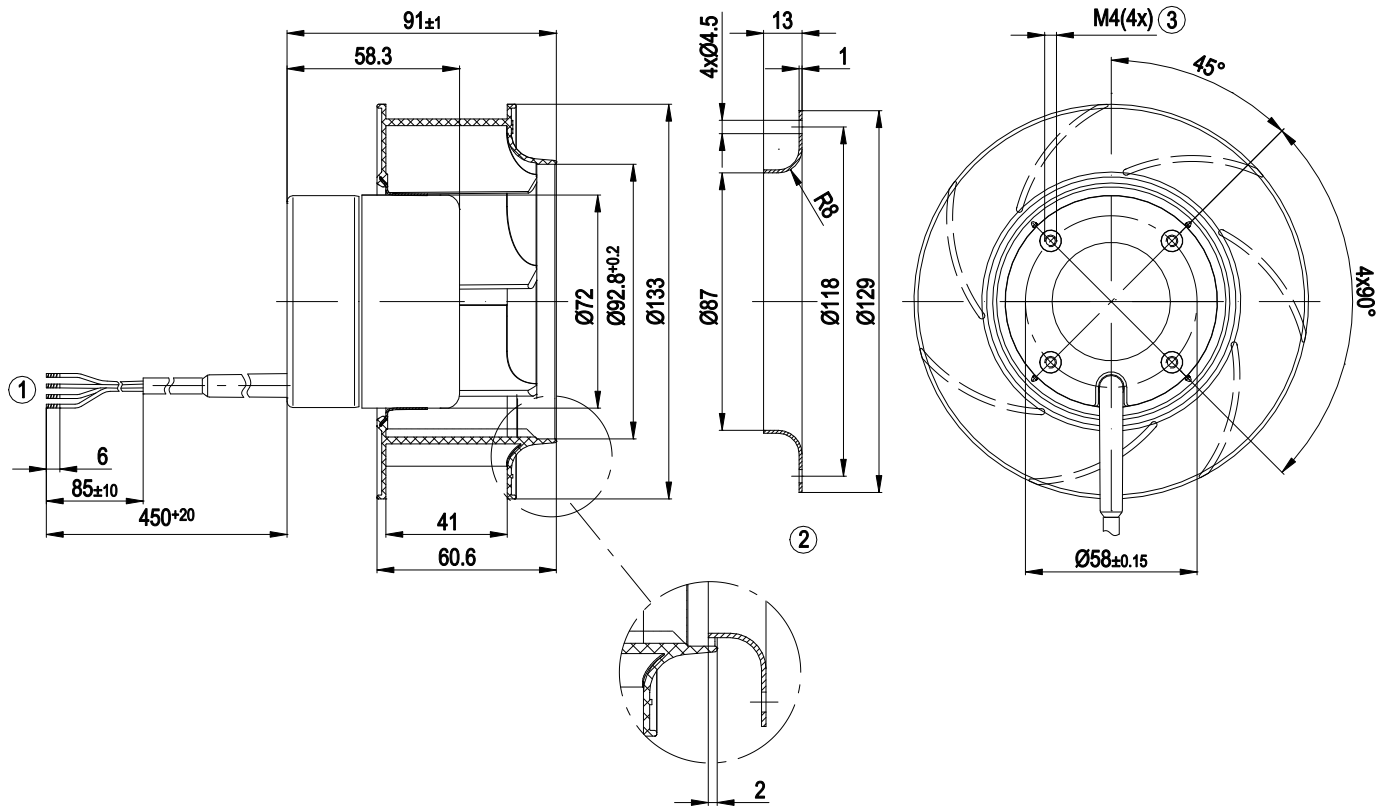
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

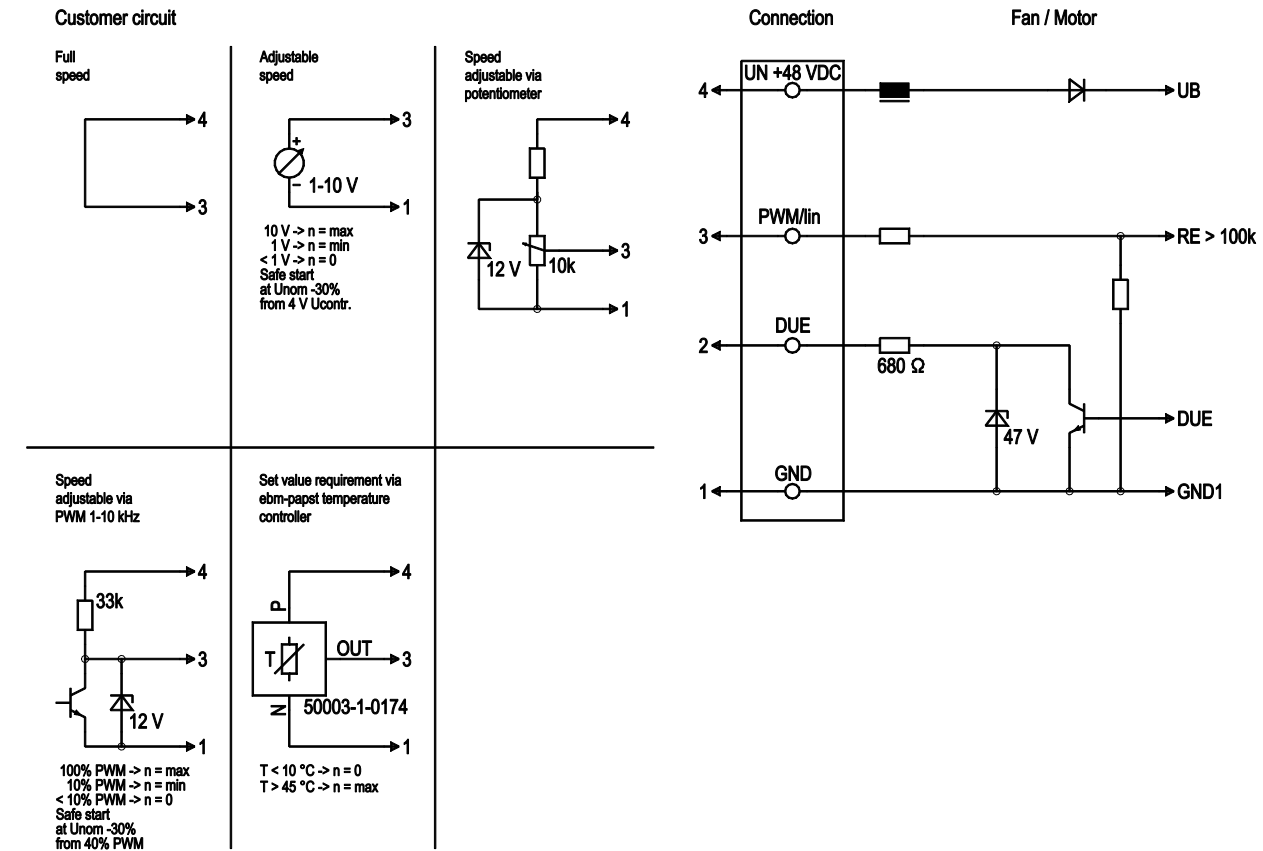
Weight	0.7 kg
Fan size	133 mm
Rotor surface	Painted black
Impeller material	PA66 plastic, glass-fiber reinforced, sheet-metal plate painted black
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F4-2
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	- Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-3 (household environment)
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1
Approval	CCC; UL 1004-1; CSA C22.2 No. 77

Product drawing



1	Cable PVC 4x AWG20, 4x crimped splices
2	Accessory part: inlet ring 09566-2-4013, not included in scope of delivery
3	Max. clearance for screw 6 mm

Connection diagram

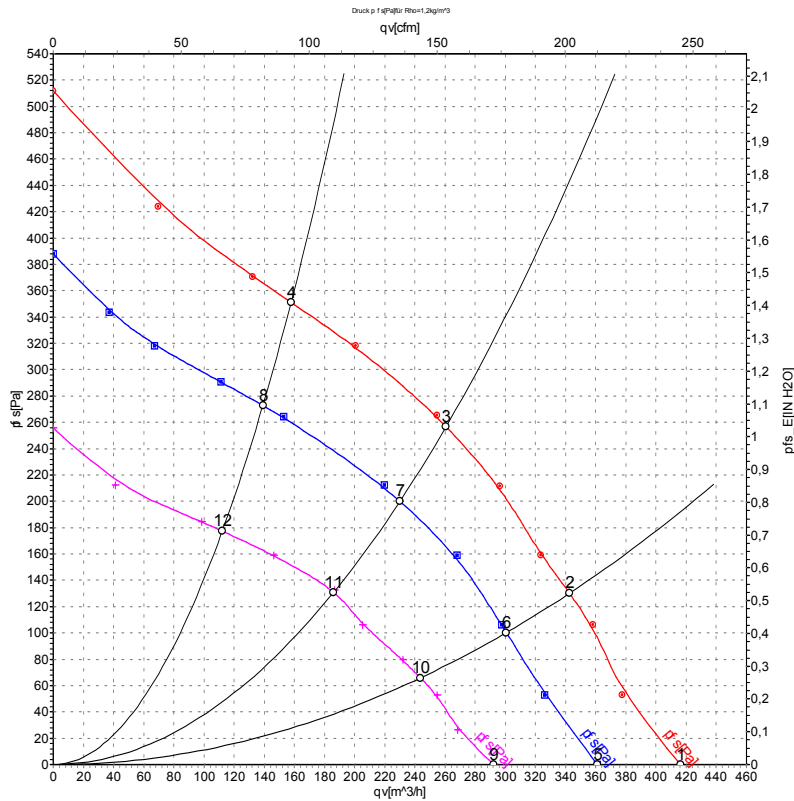


No.	Conn.	Designation	Color	Function/assignment
1	1	GND	blue	Reference ground
1	2	DUE	white	Tach output, 2 pulses per revolution, Isink max = 10 mA
1	3	PWM/LIN	yellow	Control input Re > 100k
1	4	Un +48 VDC	red	Power supply 48 VDC, maximum ripple 3.5%

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Curves: Air performance



Measurement: LU-54696-1
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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	q _v	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	m ³ /h	Pa	CFM	inH ₂ O
1	57	4445	39	0.76	415	0	245	0.00
2	57	4275	44	0.84	340	130	200	0.52
3	57	4270	44	0.85	260	258	155	1.04
4	57	4345	42	0.81	160	351	95	1.41
5	48	3900	28	0.70	360	0	210	0.00
6	48	3775	31	0.71	300	100	175	0.40
7	48	3775	31	0.72	230	200	135	0.80
8	48	3825	30	0.69	140	275	80	1.10
9	36	3150	15	0.50	290	0	170	0.00
10	36	3050	17	0.55	245	66	145	0.26
11	36	3055	17	0.54	185	133	110	0.53
12	36	3100	16	0.52	110	177	65	0.71

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

