

## EC centrifugal fan

backward-curved, single-intake

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**Nominal data**

Type	R1G250-AQ37-52	
Motor	M1G074-CF	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min <sup>-1</sup>	2600
Power consumption	W	105
Current draw	A	2.55
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

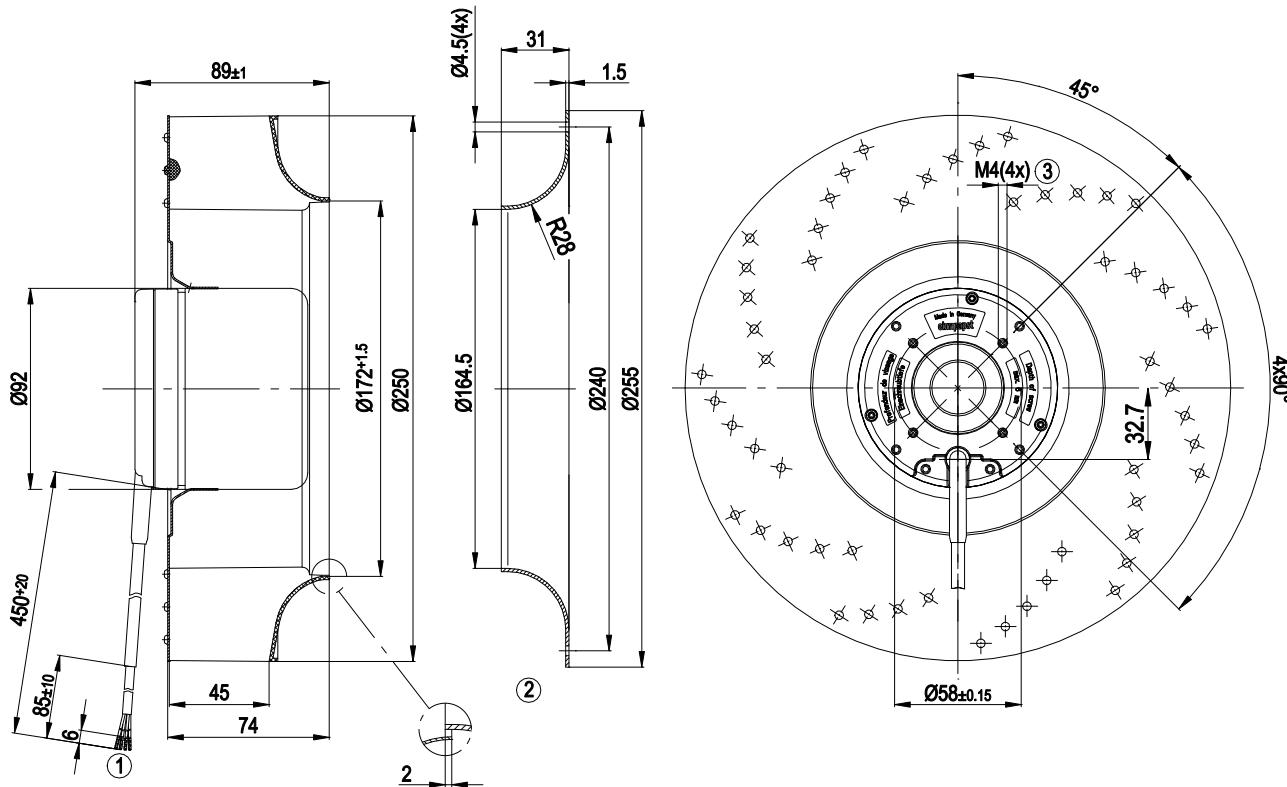
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



**Technical description**

<b>Weight</b>	2 kg
<b>Fan size</b>	250 mm
<b>Rotor surface</b>	Painted black
<b>Impeller material</b>	PA66 plastic, glass-fiber reinforced
<b>Number of blades</b>	11
<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>	<ul style="list-style-type: none"> <li>- Tach output</li> <li>- Motor current limitation</li> <li>- Soft start</li> <li>- Control input 0-10 VDC / PWM</li> </ul>
<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>	CCC; EAC; UL 1004-1; CSA C22.2 No. 77

## Product drawing

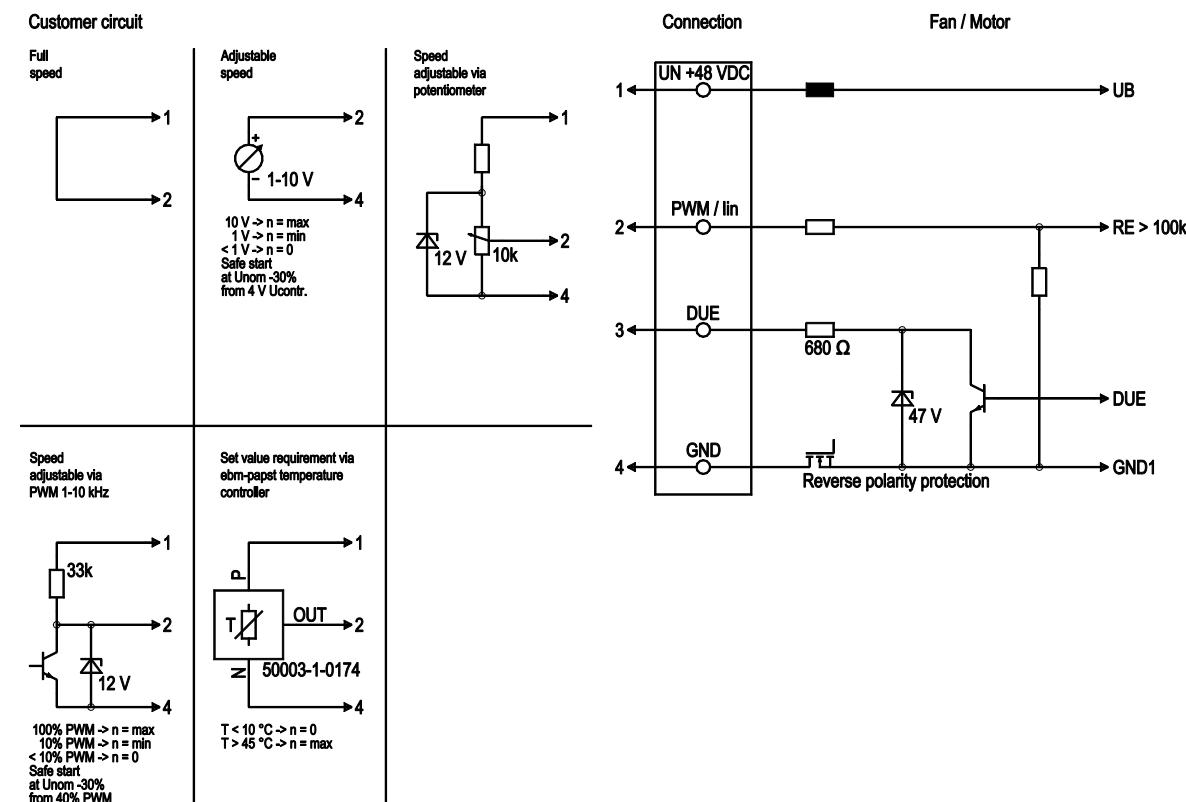


- |   |   |
|---|---|
| 1 | Cable AWG 20, 4x crimped splices  |
| 2 | Accessory part: inlet ring 96359-2-4013 not included in scope of delivery; other inlet rings on request |
| 3 | Max. clearance for screw 6 mm   |

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## Connection diagram

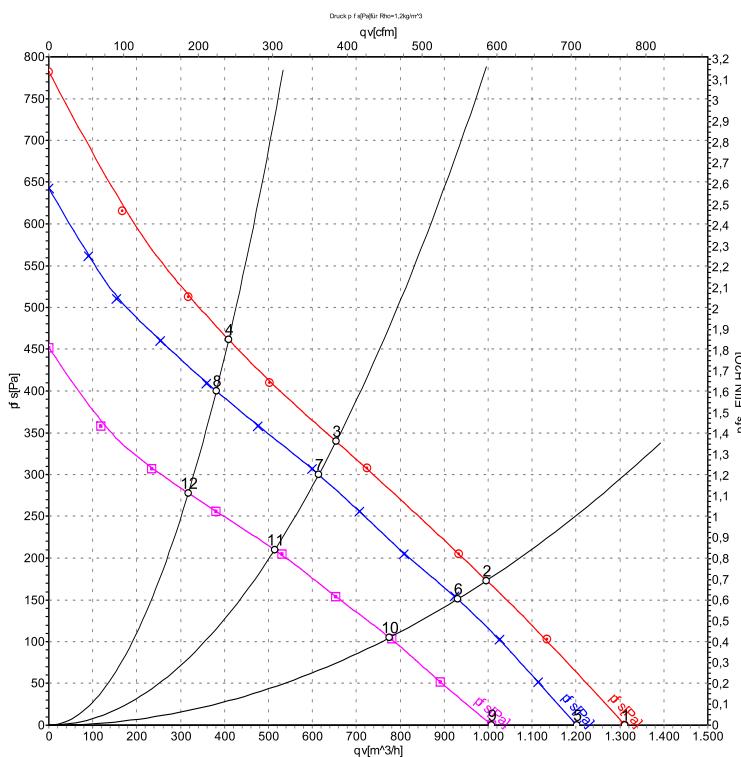


No.	Conn.	Designation	Color	Function/assignment
1	1	Un +48 VDC	red	Power supply 48 VDC, maximum ripple 3.5%
1	2	PWM / lin	yellow	PWM / lin. Control input 0-10 V
1	3	Tach	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

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## Curves: Air performance



Measurement: LU-47074-1  
 Measurement: LU-47073-1  
 Measurement: LU-47075-1

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 <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	inH2O
1	56	2850	134	2.78	1310	0	770	0.00
2	56	2625	139	2.93	995	173	585	0.69
3	56	2550	141	2.98	655	340	385	1.36
4	56	2650	138	2.91	410	461	240	1.85
5	48	2600	105	2.55	1200	0	705	0.00
6	48	2450	114	2.74	930	150	545	0.60
7	48	2380	116	2.81	615	300	360	1.20
8	48	2460	113	2.71	380	400	225	1.61
9	36	2180	60	1.94	1010	0	595	0.00
10	36	2040	67	2.16	775	106	455	0.43
11	36	2005	70	2.24	515	210	305	0.84
12	36	2060	66	2.13	320	278	185	1.12

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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