R1G250-AC79-08

EC centrifugal fan

backward curved, single inlet

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Nominal data

Type	**R1G250-AC79-08**	
Motor	**M1G074-BF**	
Nominal voltage	VDC	12
Nominal voltage range	VDC	8 .. 16
Type of data definition		fa
Speed	min-1	2350
Power input	W	82
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

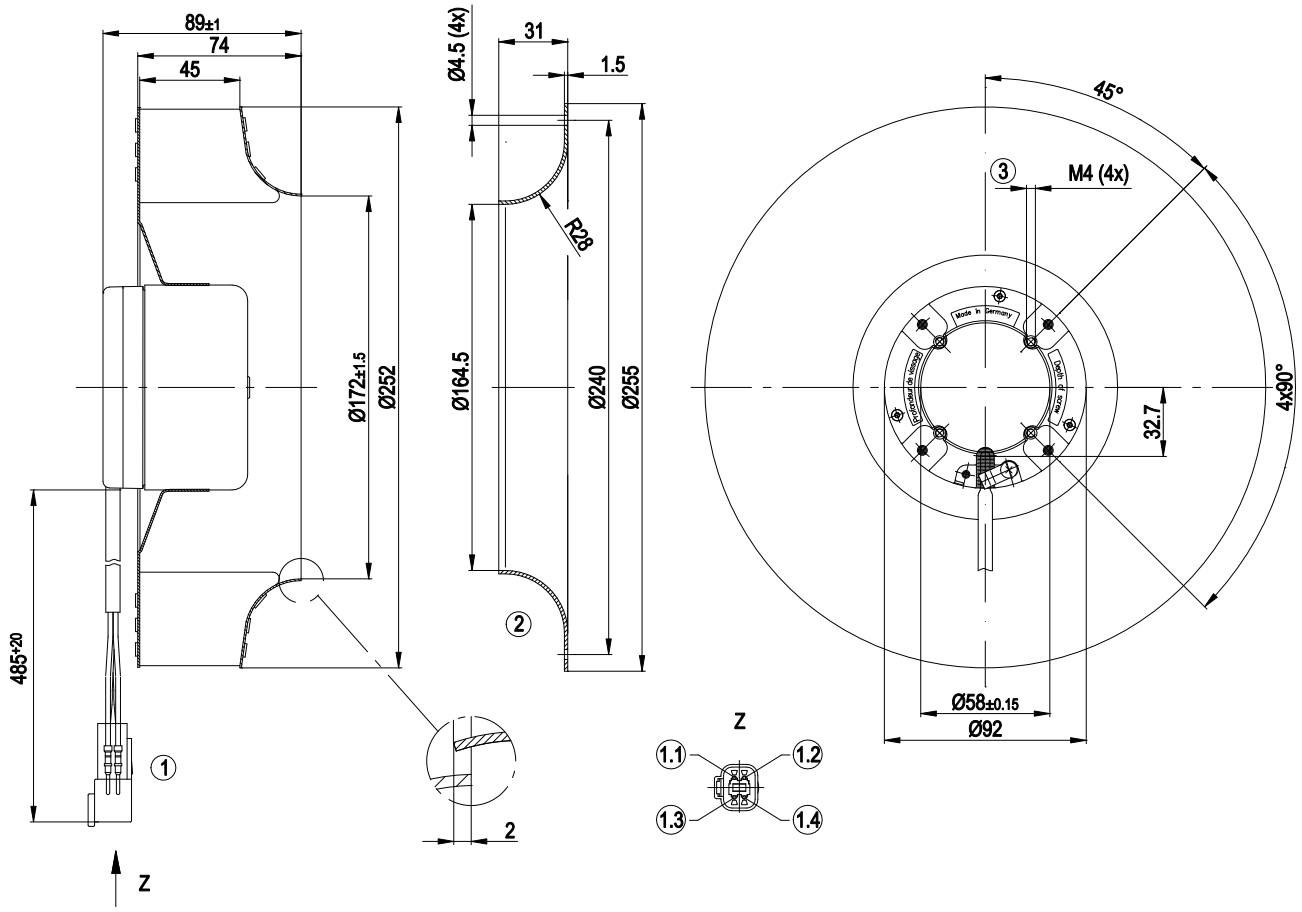
Mass	2.1 kg
Size	250 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, coated in black
Number of blades	11
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
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 55022 (Class B)
Electrical leads	With plug
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Product conforming to standard	EN 60950-1

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Product drawing



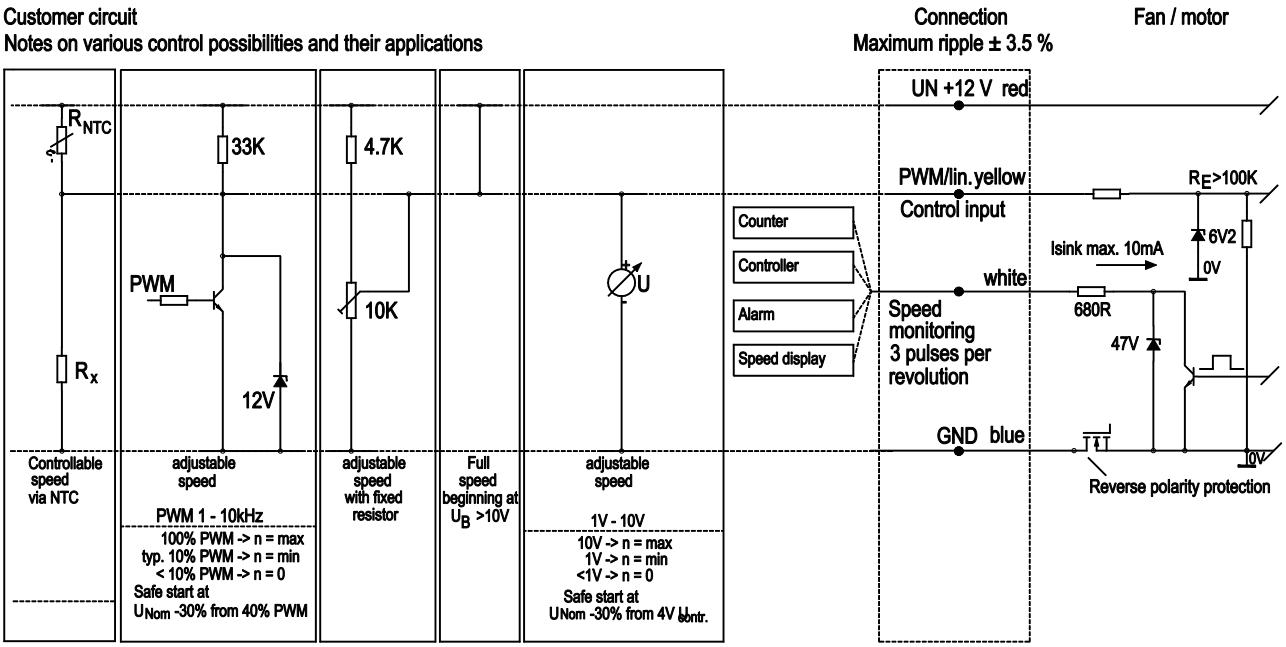
1	Connection line AWG 18 with Deutsch connector shell DT04-4P-C015 DT-SERIES and 4x Deutsch plug pins 1060-16-0122 DT-Series
1.1	UN +12V (red)
1.2	Control input (yellow)
1.3	Speed monitoring, 3 pulses per revolution (white)
1.4	GND (blue)
2	Accessory part: inlet nozzle 96359-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
3	Depth of screw max. 6 mm

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Connection screen

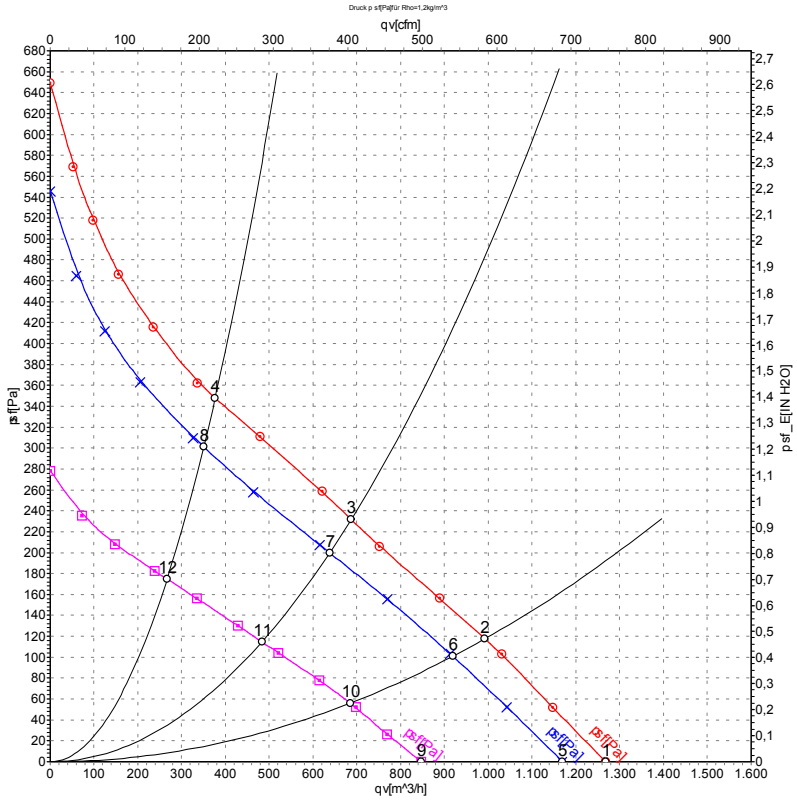


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Charts: Air flow



Measurement: LU-33913
Measurement: LU-33912
Measurement: LU-59297

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	14	2540	104	7.82	1270	0
2	14	2325	112	8.50	990	118
3	14	2190	116	8.97	685	232
4	14	2270	113	8.62	375	348
5	12	2350	82	7.20	1170	0
6	12	2170	90	7.91	920	100
7	12	2030	92	8.27	640	200
8	12	2115	91	8.02	350	300
9	8	1690	37	4.99	845	0
10	8	1600	41	5.51	685	56
11	8	1545	42	5.79	485	115
12	8	1595	41	5.55	265	175

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