

R3G280-AC66-30

EC centrifugal fan

backward curved, single inlet



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Nominal data

Type	R3G280-AC66-30	
Motor	M3G084-CA	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		rfa
Speed	min ⁻¹	2000
Power input	W	135
Current draw	A	2.85
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+60

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

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Technical features

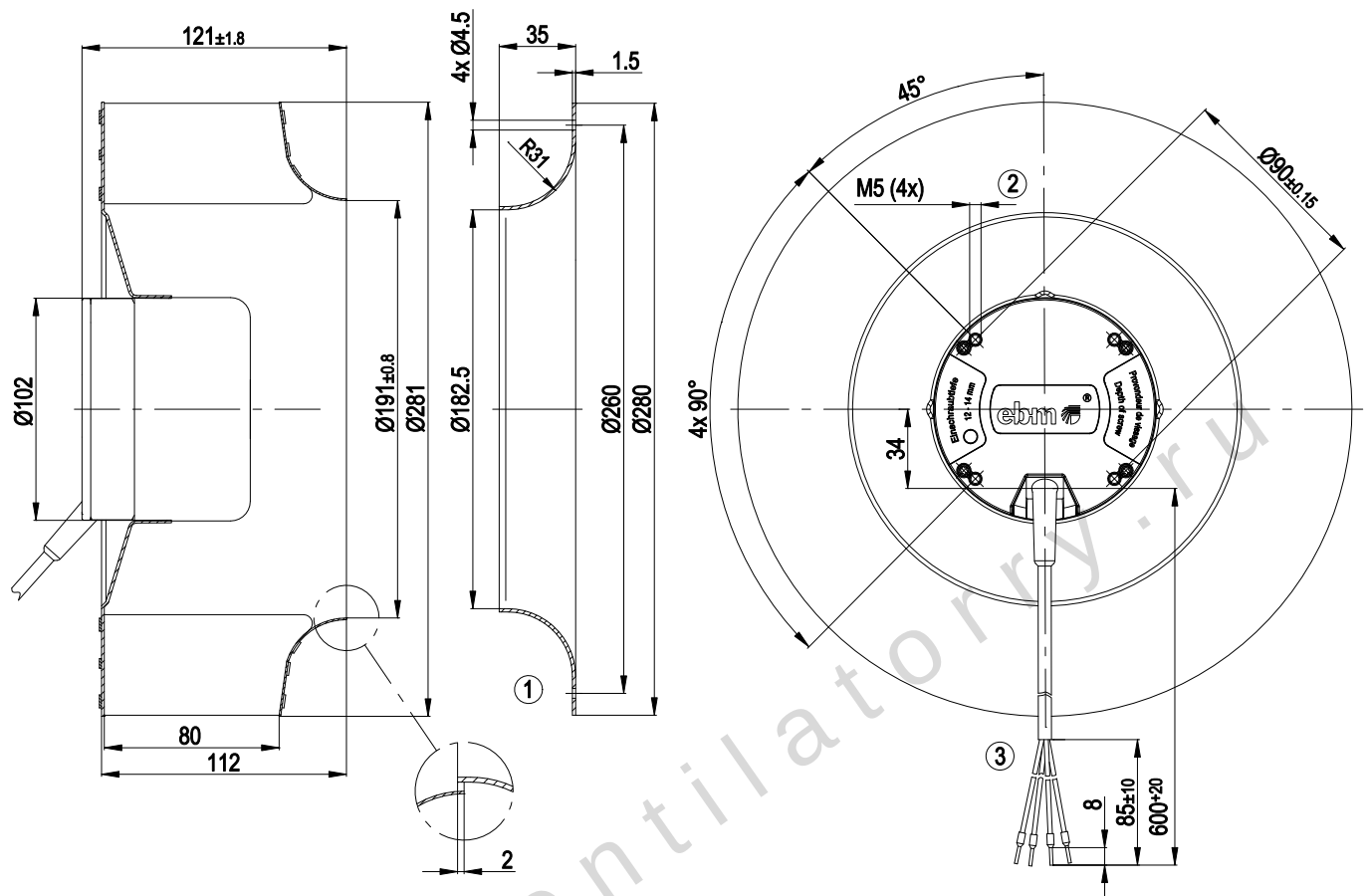
Size	280 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
EMC interference emission	Acc. to EN 55022 (Class B)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Motor bearing	Ball bearing
Mass	3.3 kg
Material of electronics housing	Die-cast aluminium
Material of impeller	Sheet steel, galvanised
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	EN 60950-1
Surface of rotor	Coated in black
Number of blades	11
Type of protection	IP 42
Protection class	I
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected motor
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CCC; CSA C22.2 Nr.77; UL 1004-1

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Product drawing



- | | |
|---|--|
| 1 | Accessory part: inlet nozzle 96360-2-4013 not included in the standard scope of delivery; other inlet nozzles on request |
| 2 | Depth of screw 12-14 mm |
| 3 | Connection line PVC AWG16, 4x crimped core-end sleeves |

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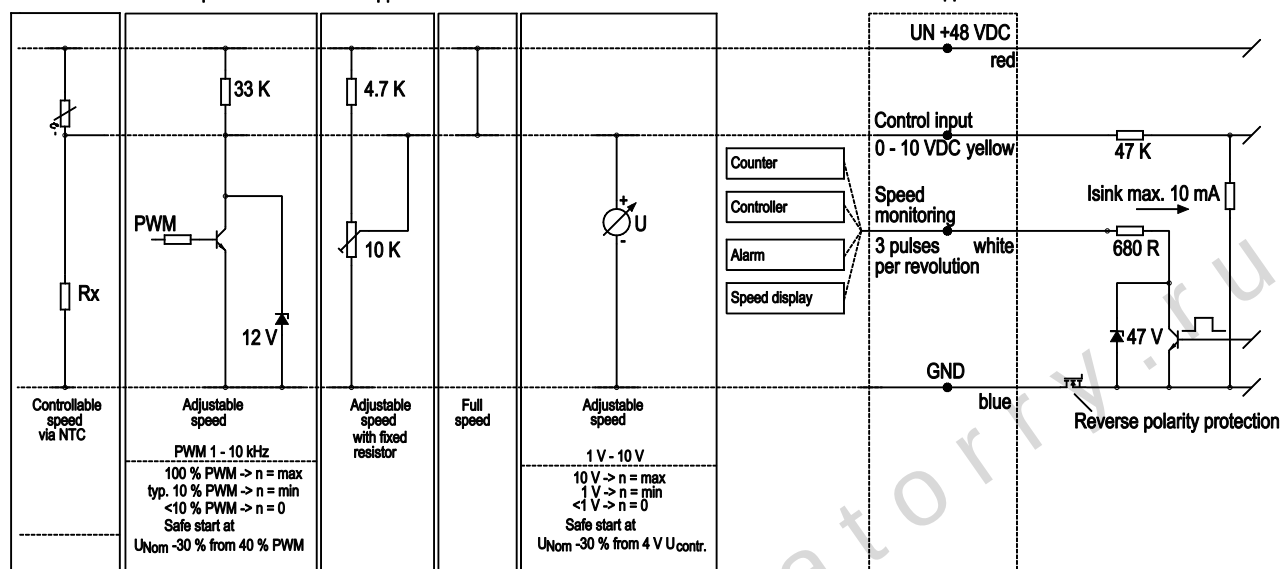
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Connection screen

Customer circuit

Notes on various control possibilities and their applications

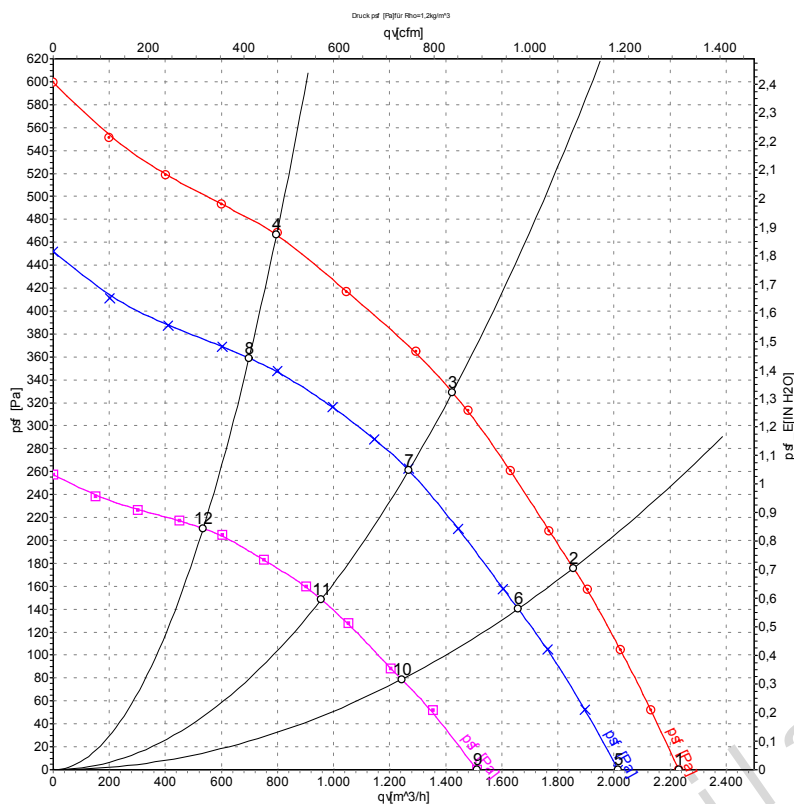


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Charts: Air flow



Measurement: LU-72884
Measurement: LU-61034
Measurement: LU-72885

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

Item	U	n	P ₁	I	qv	p _{sf}
	V	min ⁻¹	W	A	m³/h	Pa
1	57	2305	212	3.74	2230	0
2	57	2245	257	4.55	1855	176
3	57	2210	281	4.97	1425	329
4	57	2270	242	4.27	795	469
5	48	2000	135	2.85	2015	0
6	48	1955	173	3.64	1660	140
7	48	1920	185	3.80	1270	260
8	48	1980	160	3.35	700	360
9	36	1550	65	1.81	1510	0
10	36	1520	80	2.23	1245	79
11	36	1505	87	2.45	955	149
12	36	1530	75	2.09	535	210