R3G310-AN26-30

EC centrifugal fan

backward curved, single inlet



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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**R3G310-AN26-30**	
Motor	**M3G084-FA**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		fa
State		prelim.
Speed	min^{-1}	2000
Power input	W	190
Current draw	A	8.0
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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.00

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		61.7	41	45
Efficiency grade N		78.7	58	62
Power input P_e	kW	0.24		
Air flow q_v	m^3/h	1380		
Pressure increase p_{fs}	Pa	350		
Speed n	min^{-1}	1970		

Data established at point of optimum efficiency

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Technical features

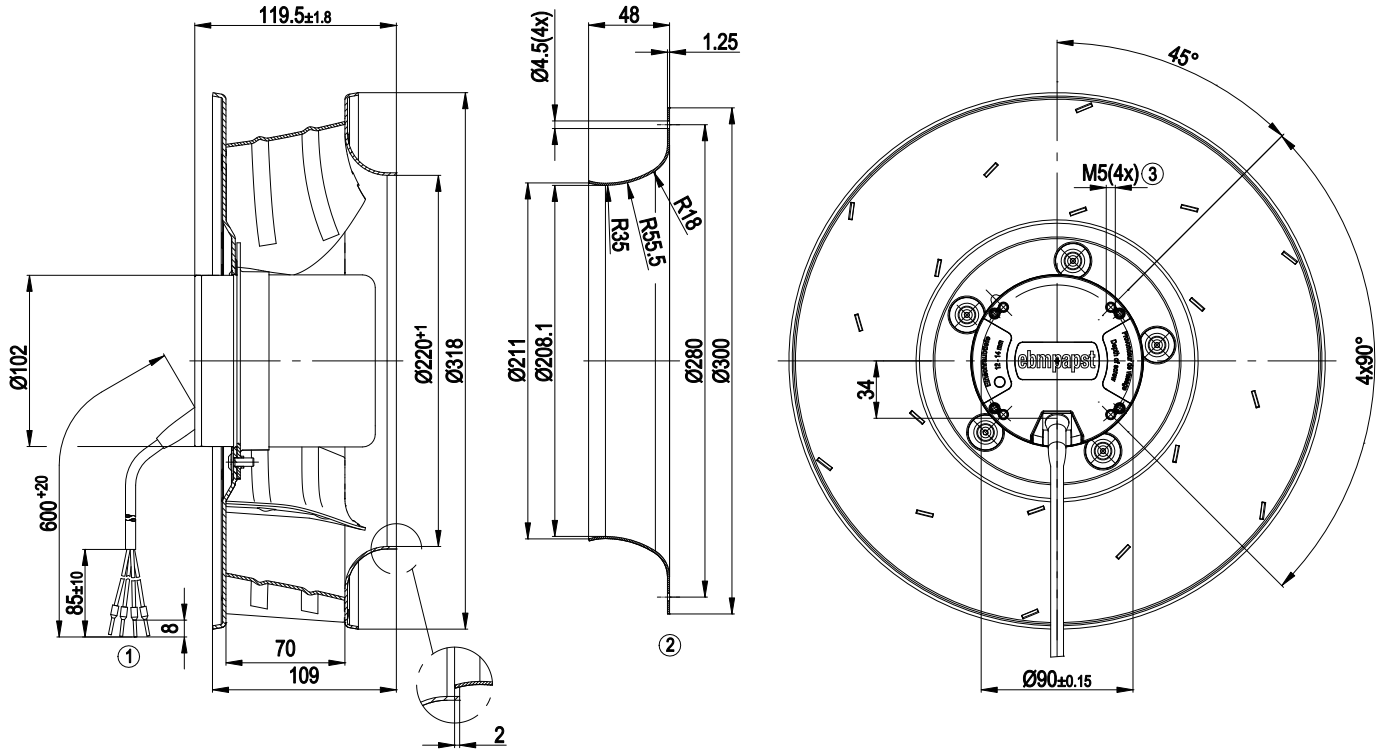
Mass	4.35 kg
Size	310 mm
Surface of rotor	Coated in black
Material of impeller	Aluminium sheet
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 42
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor 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 - Over-temperature protected motor
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B)
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Product conforming to standard	EN 60950-1
Approval	UL; CSA

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Product drawing



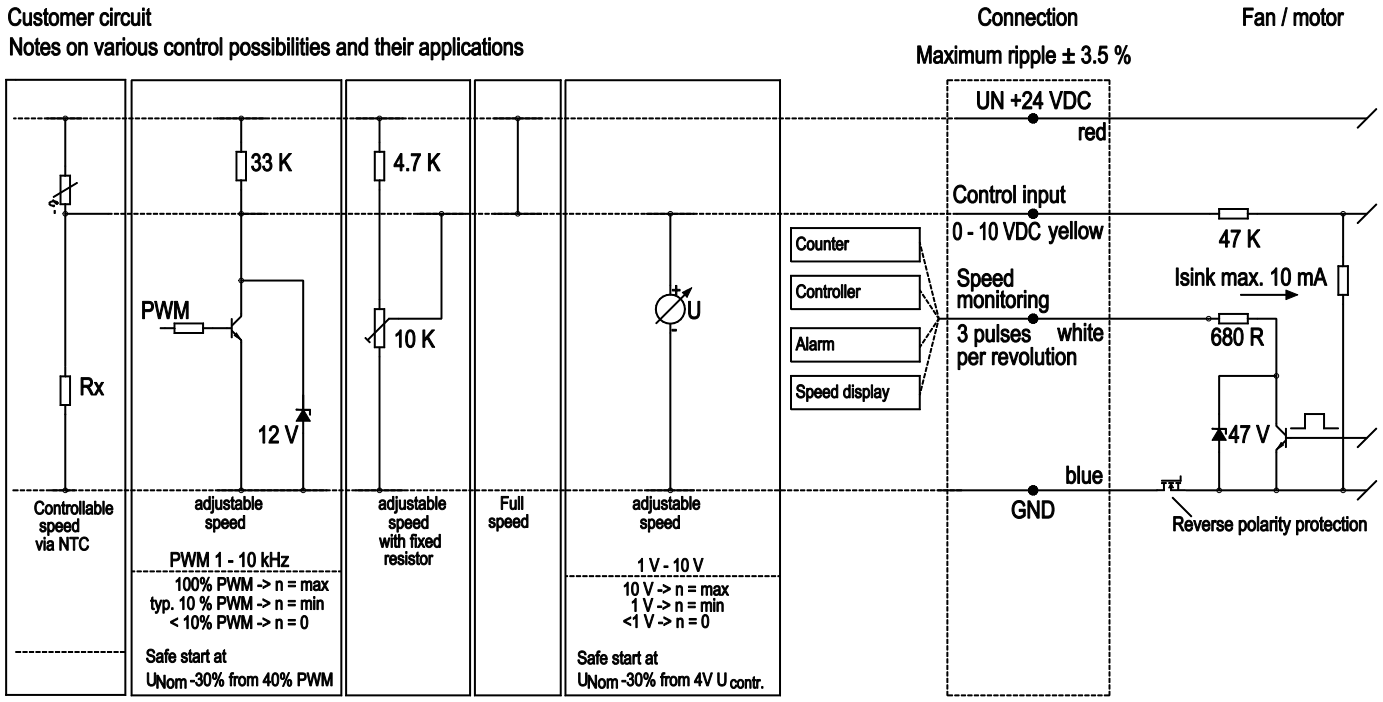
1	Connection line AWG16, 4x crimped core-end sleeves
2	Accessory part: Inlet nozzle 31050-2-4013 not included in the standard scope of delivery, other inlet nozzles on request
3	Depth of screw 12 - 14 mm

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Connection screen

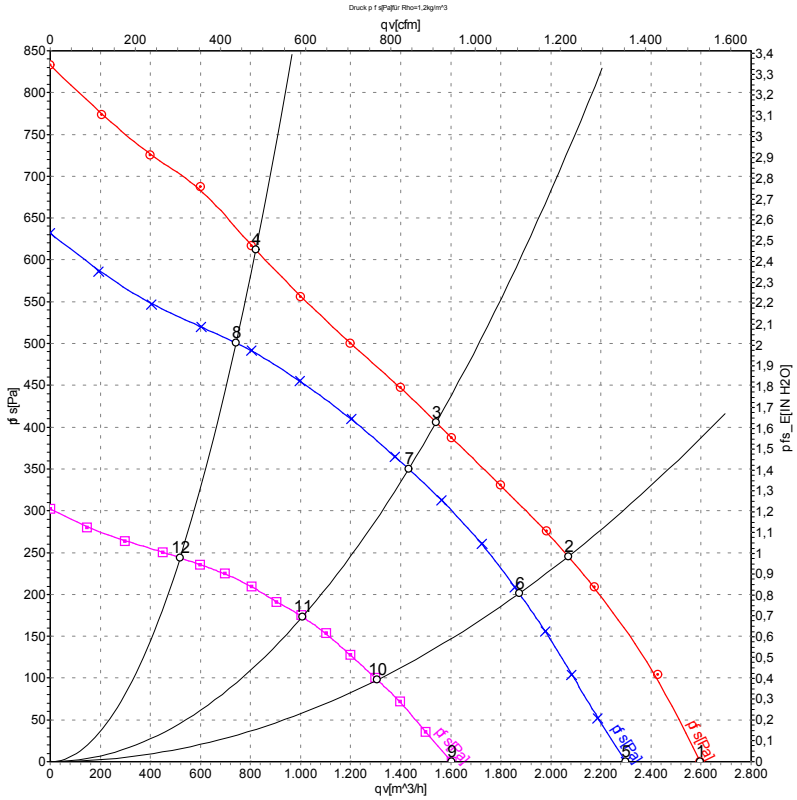


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Charts: Air flow



Measurement: LU-106467
Measurement: LU-106463
Measurement: LU-106468

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_{ed}	I	qv	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa
1	28	2335	277	9.94	2595	0
2	28	2210	308	11.03	2070	245
3	28	2135	309	11.08	1540	406
4	28	2235	309	11.10	820	611
5	24	2000	190	8.00	2300	0
6	24	1990	231	9.67	1875	200
7	24	1970	244	10.24	1430	350
8	24	1995	226	9.45	745	500
9	16	1425	71	4.48	1605	0
10	16	1405	85	5.36	1305	98
11	16	1395	89	5.63	1010	174
12	16	1410	82	5.14	520	244

U = Supply voltage · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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