R3G400-AD08-32

EC centrifugal fan

backward curved



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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**R3G400-AD08-32**	
Motor	**M3G084-FA**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		fa
Speed	min^{-1}	1500
Power input	W	280
Current draw	A	5.9
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	40

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}		61.9	42.7	46.7
Efficiency grade N		77.2	58	62
Power input P_e	kW	0.35		
Air flow q_v	m³/h	2405		
Pressure increase p_{fs}	Pa	295		
Speed n	min^{-1}	1440		

Data established at point of optimum efficiency

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Technical features

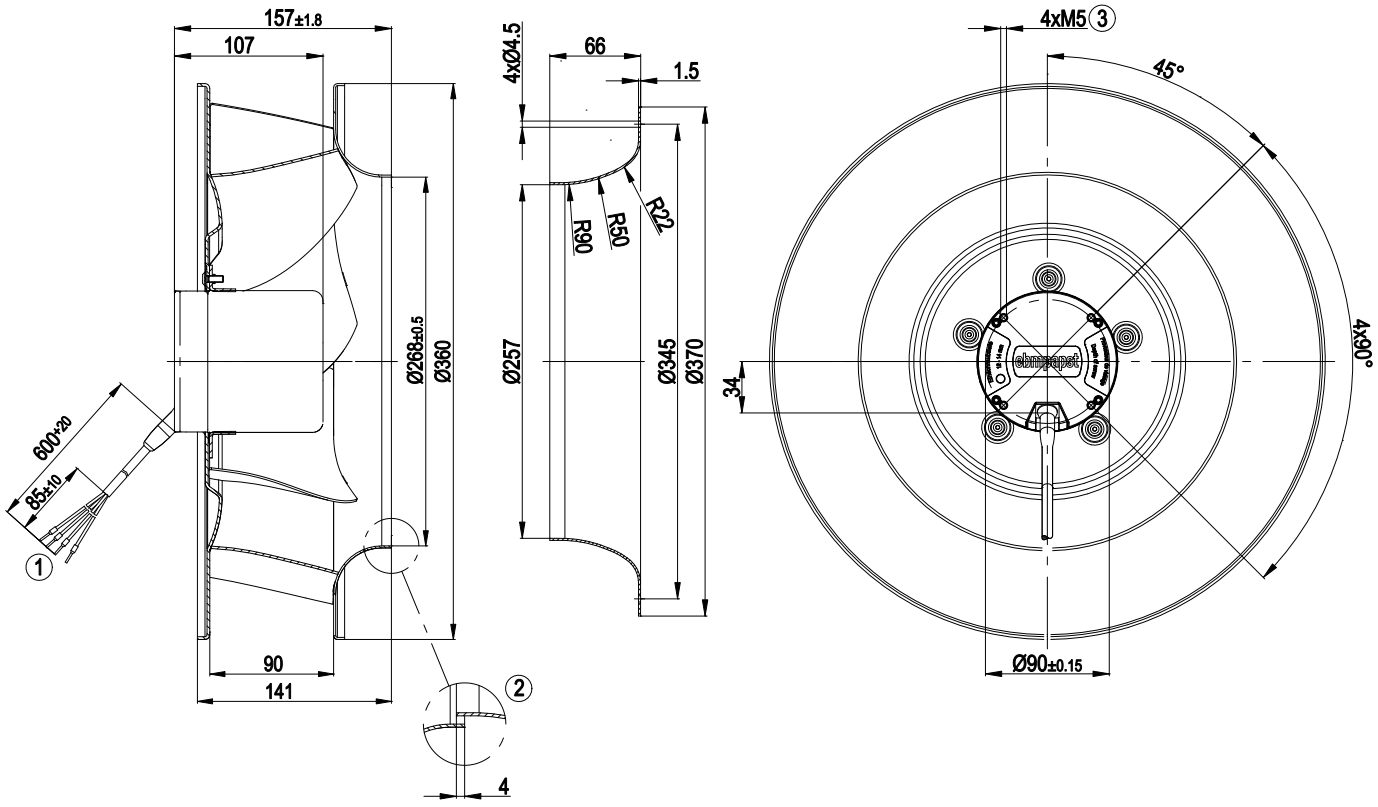
Mass	5.3 kg
Size	400 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Sheet aluminium, laser-welded
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 42
Insulation class	"B"
Humidity class	F2-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Output 10 VDC max. 1.1 mA - Tach output
EMC interference immunity	Acc. to EN 61000-6-2
EMC interference emission	Acc. to EN 55022 (Class B)
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Approval	CCC; UL 1004-1; CSA C22.2 Nr.100

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Product drawing



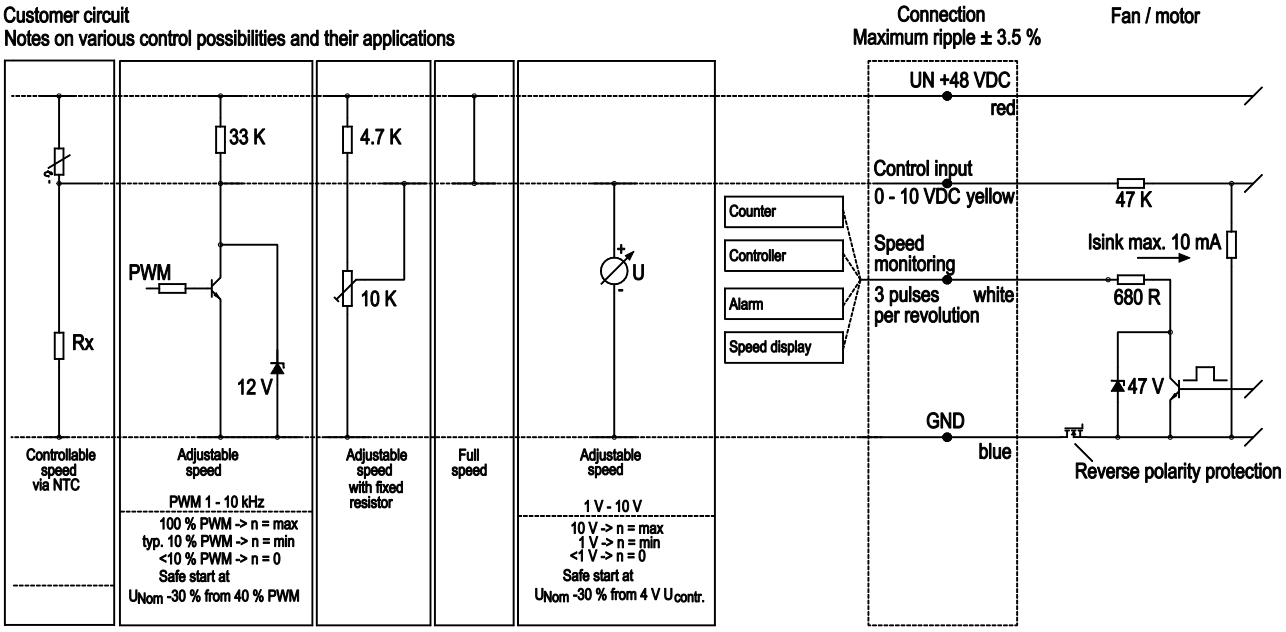
1	Connection line AWG 16, 4 x crimped core-end sleeves
2	Accessory part: inlet nozzle 54476-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
3	Depth of screw 12 - 14 mm

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Connection screen

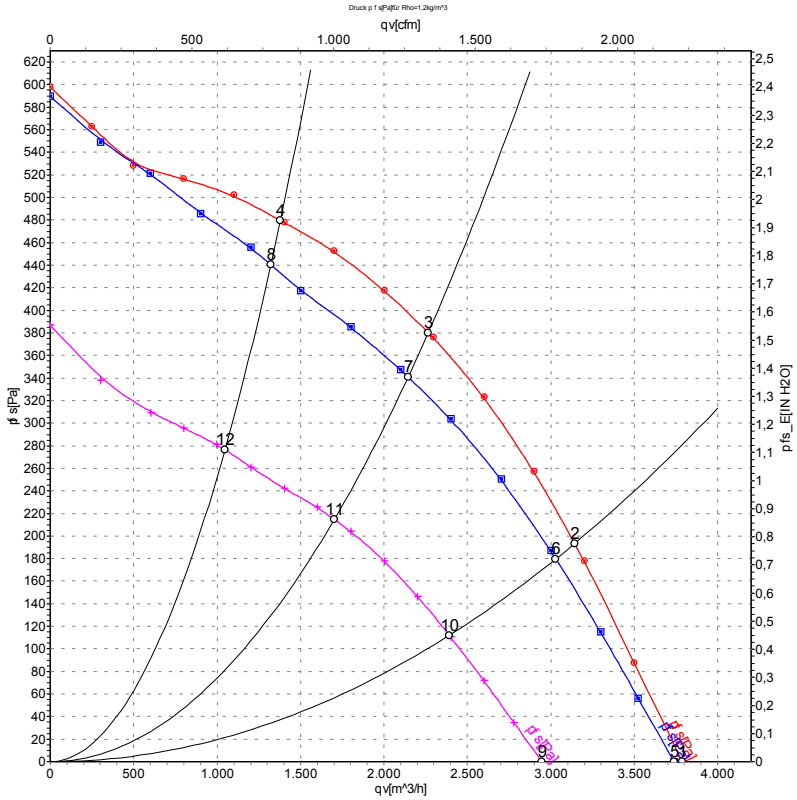


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Charts: Air flow



Measurement: LU-120913
Measurement: LU-120908
Measurement: LU-120909

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	57	1520	293	5.19	3785	0
2	57	1510	374	6.64	3140	190
3	57	1515	424	7.56	2265	380
4	57	1520	377	6.69	1380	480
5	48	1500	280	5.90	3740	0
6	48	1460	330	6.96	3030	180
7	48	1435	355	7.50	2145	341
8	48	1465	328	6.91	1320	440
9	36	1185	138	3.87	2945	0
10	36	1160	164	4.59	2390	112
11	36	1145	177	4.96	1700	215
12	36	1160	163	4.56	1045	277

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

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