R3G250-AD64-39

EC centrifugal fan

backward curved, single inlet

R3G250-AD64-39 ebmpapst Datasheet
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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**R3G250-AD64-39**	
Motor	**M3G084-CA**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		fa
Speed	min^{-1}	2645
Power input	W	135
Current draw	A	5.6
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}		50.4	39.4	43.4
Efficiency grade N		69	58	62
Power input P_e	kW	0.17		
Air flow q_v	m³/h	915		
Pressure increase p_{fs}	Pa	300		
Speed n	min^{-1}	2455		

Data established at point of optimum efficiency

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Technical features

Mass	3 kg
Size	250 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium, coated in black
Material of impeller	Sheet steel, coated in black
Number of blades	11
Stability	Salt fog resistant in accordance with TELCORDIA GR-487-CORE, release No. 2, March 2000
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 - Control interface with SELV potential safely disconnected from the mains - 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	CSA C22.2 Nr.100; UL 1004-1

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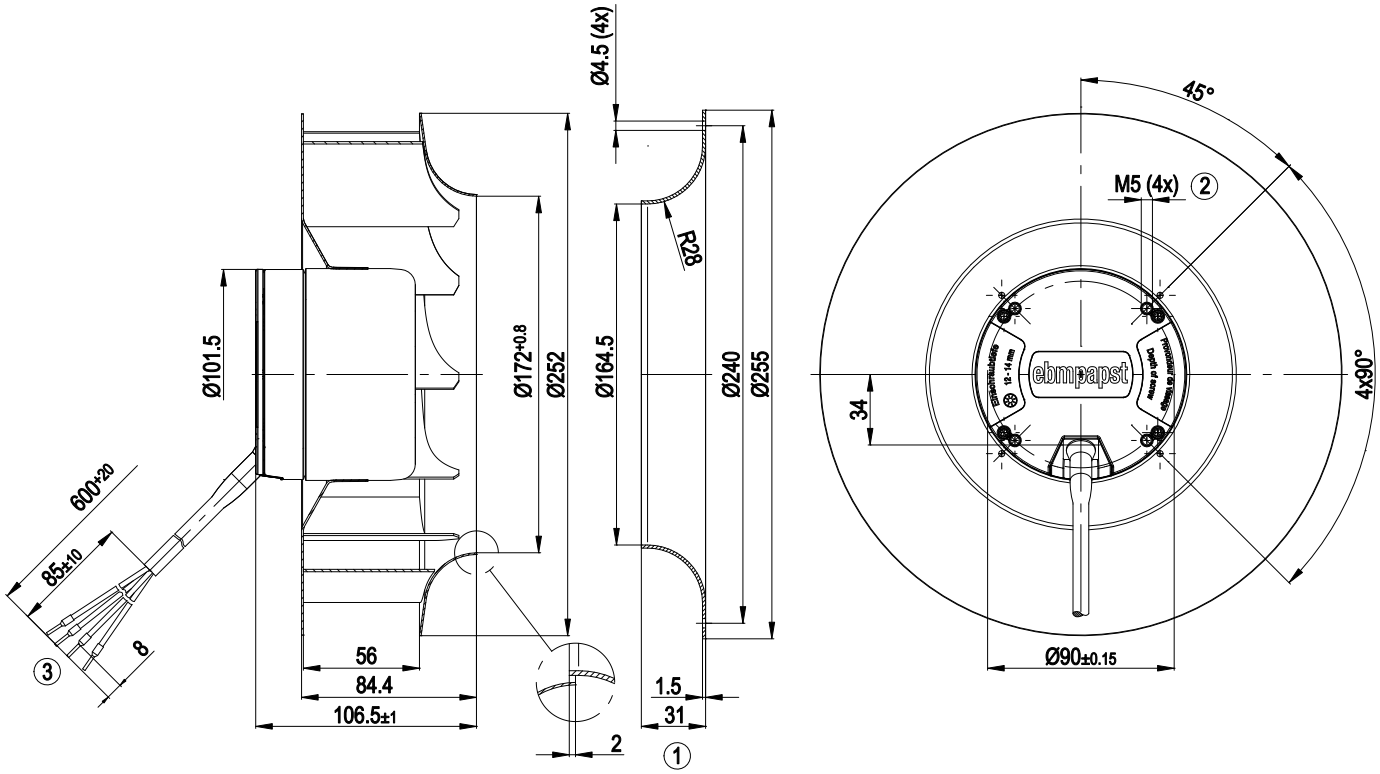
Product drawing



1	Accessory part: Inlet nozzle 96359-2-4013, not included in the standard scope of delivery
2	Depth of screw 12-14 mm
3	Connection line PVC AWG16, 4x crimped core-end sleeves

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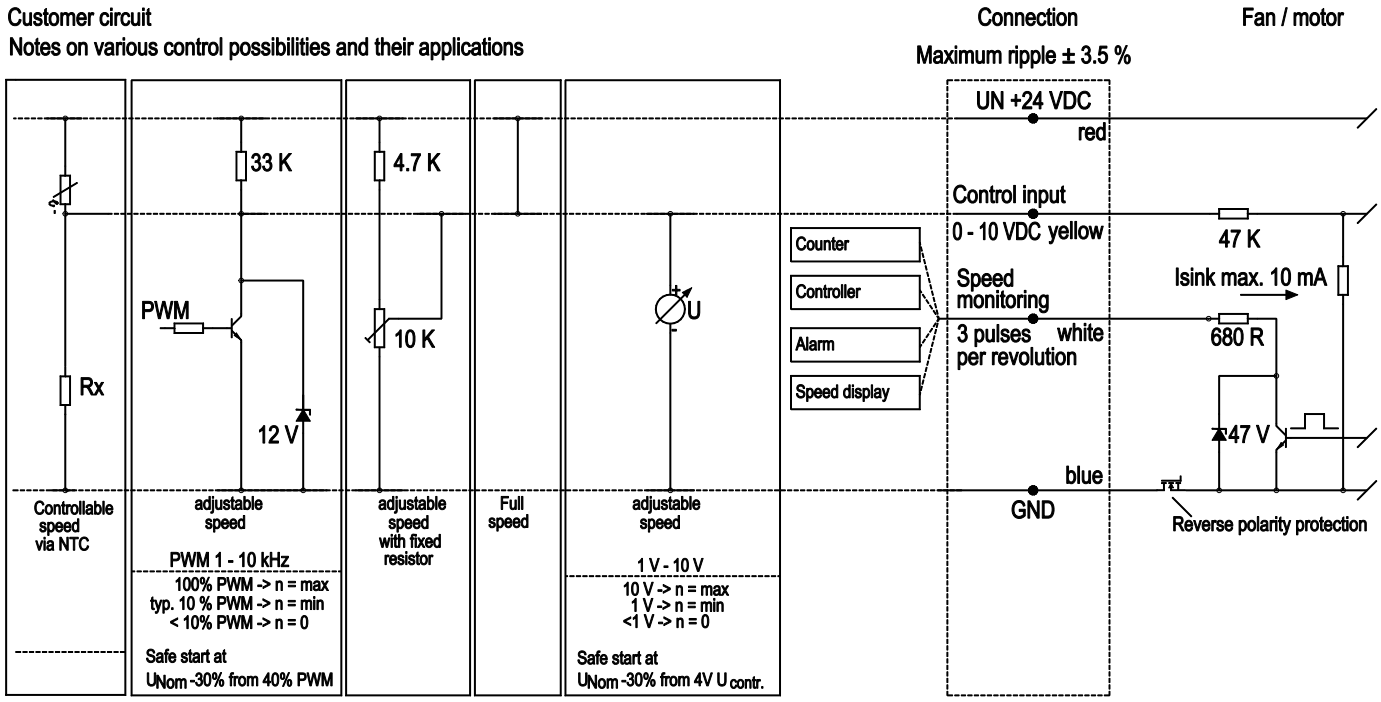
Connection screen



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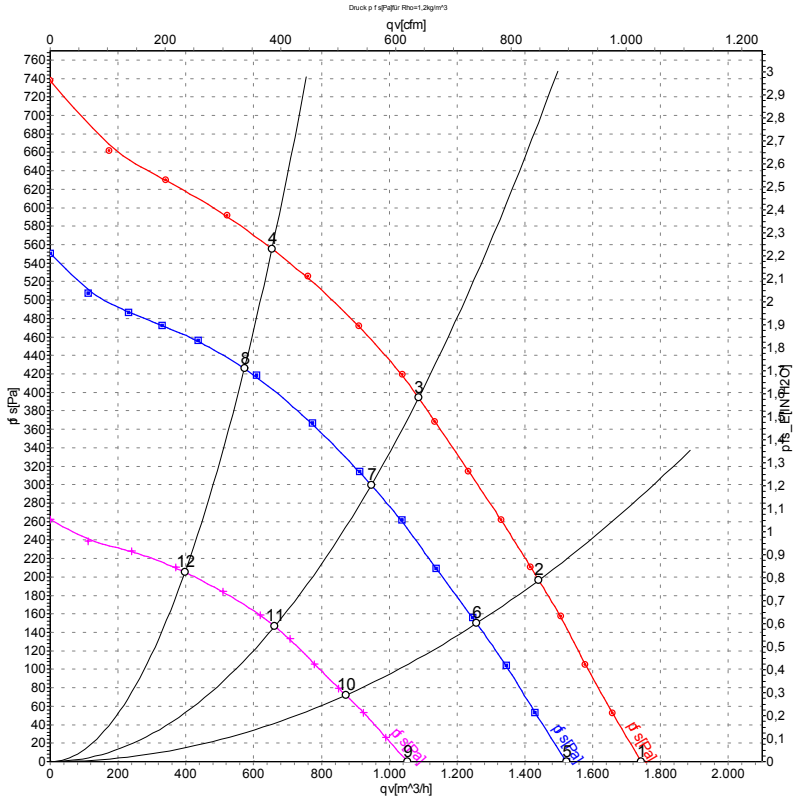
Charts: Air flow



Measurement: LU-57102
Measurement: LU-57101
Measurement: LU-57103

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	2915	188	6.74	1745	0
2	28	2845	228	8.16	1440	200
3	28	2810	252	9.02	1085	394
4	28	2845	231	8.28	655	555
5	24	2645	135	5.60	1525	0
6	24	2490	154	6.47	1260	150
7	24	2455	171	7.18	945	300
8	24	2490	158	6.61	575	425
9	16	1765	45	2.88	1055	0
10	16	1735	56	3.55	870	72
11	16	1725	61	3.85	660	146
12	16	1735	57	3.58	395	205

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