R3G250-AD64-38

EC centrifugal fan

backward-curved, single-intake

for rail applications

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Nominal data

Type	**R3G250-AD64-38**	
Motor	**M3G084-CA**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2645
Power consumption	W	135
Current draw	A	5.6
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	35

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

Weight	2.9 kg
Fan size	250 mm
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP42
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Thermal overload protection for motor
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	CE
Approval	CSA C22.2 No. 100; UL 1004-1

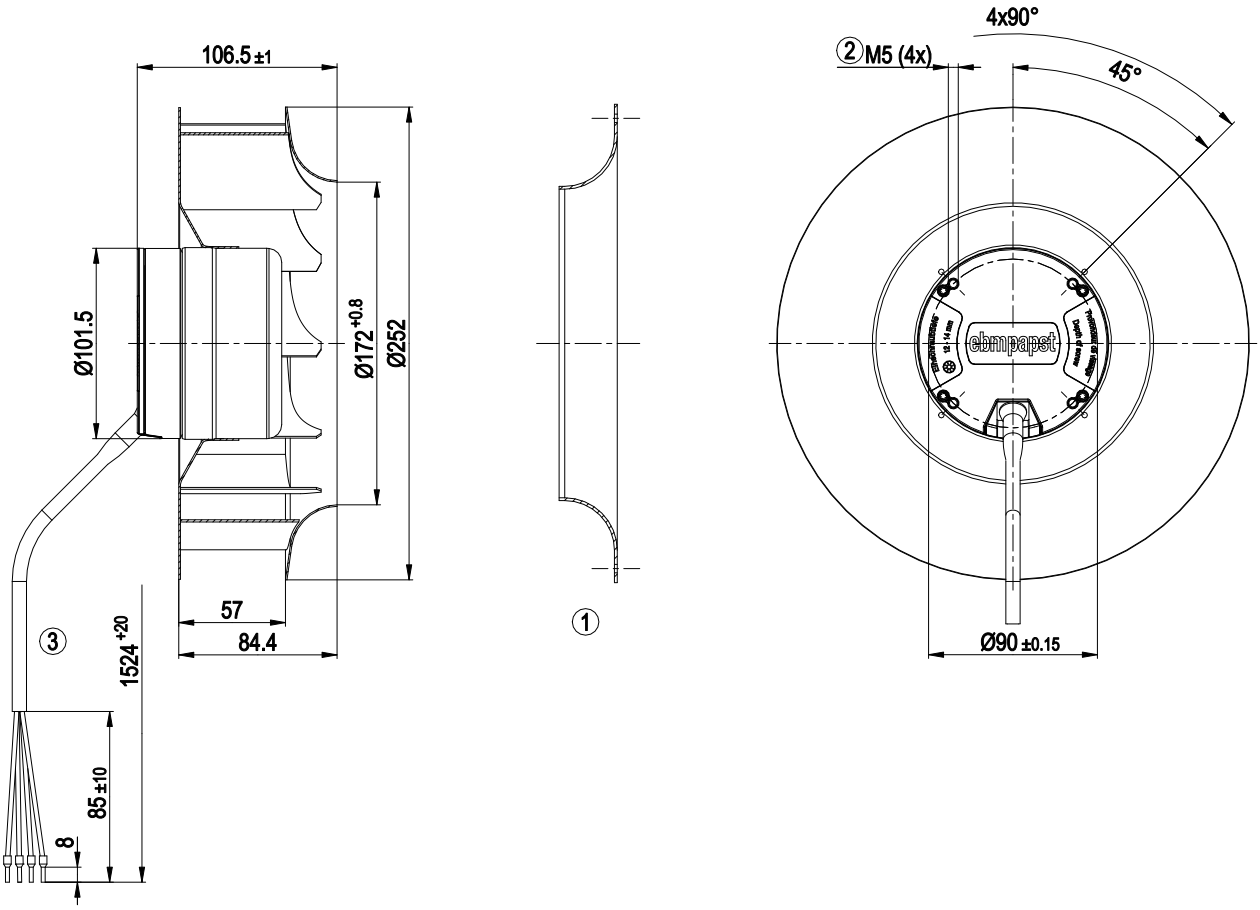
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Product drawing



1	Accessory part: inlet ring 96359-2-4013 not included in scope of delivery
2	Max. clearance for screw 14 mm
3	Cable silicone 4G 1.5 mm², 4x crimped ferrules

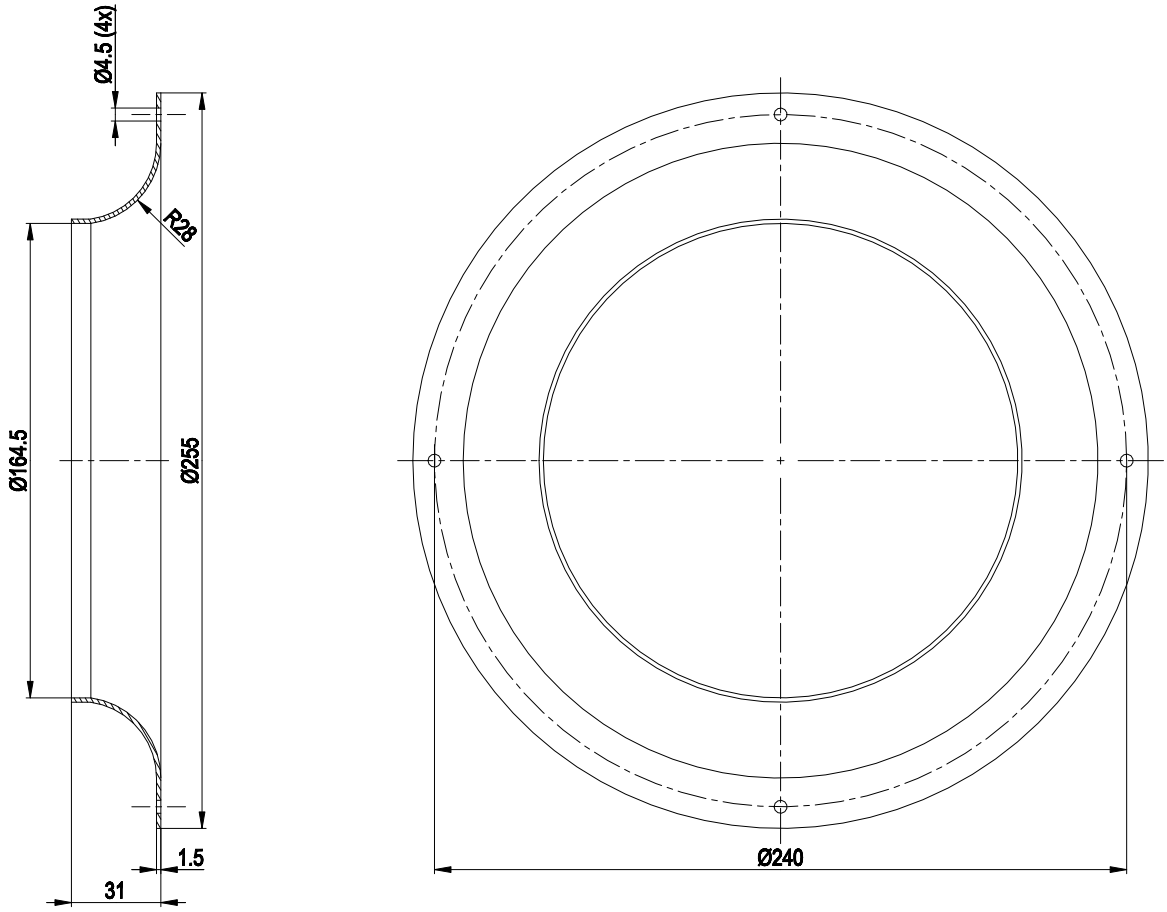
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Accessory part



Accessory part: inlet ring 96359-2-4013 not included in scope of delivery

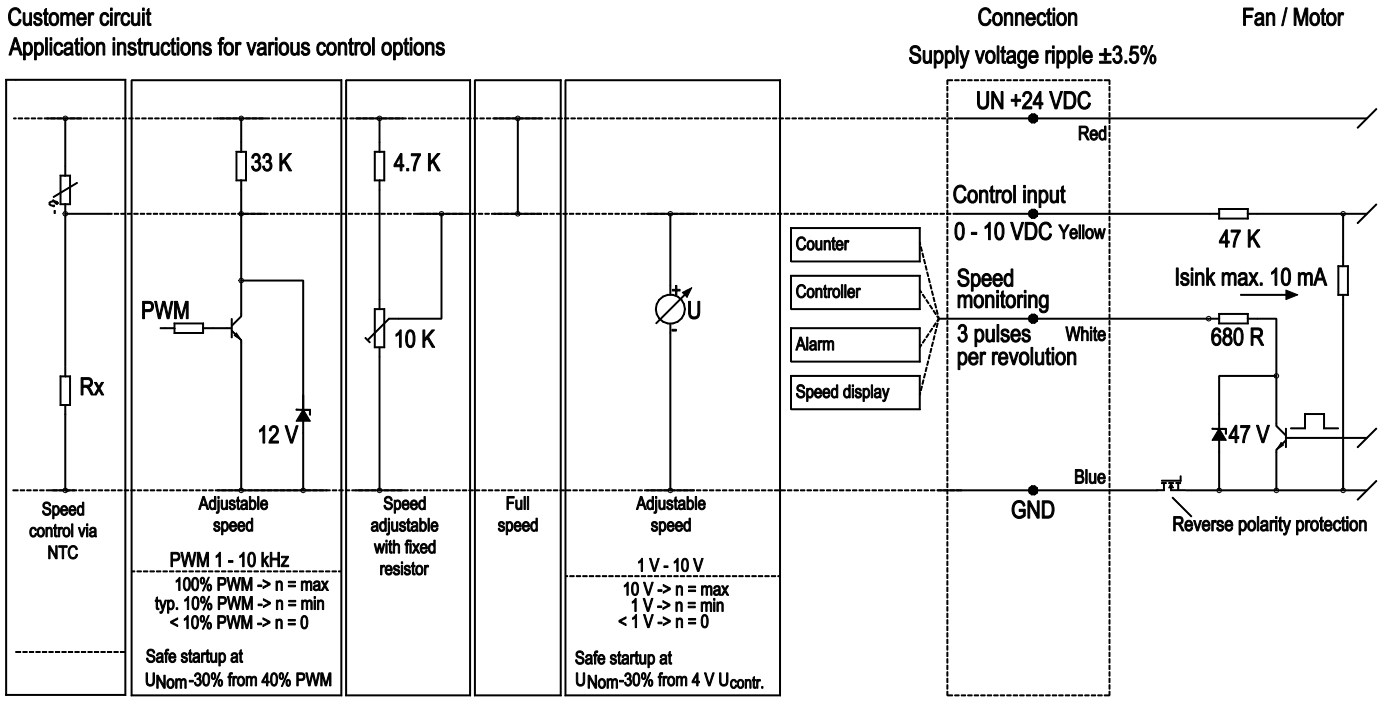
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Connection diagram



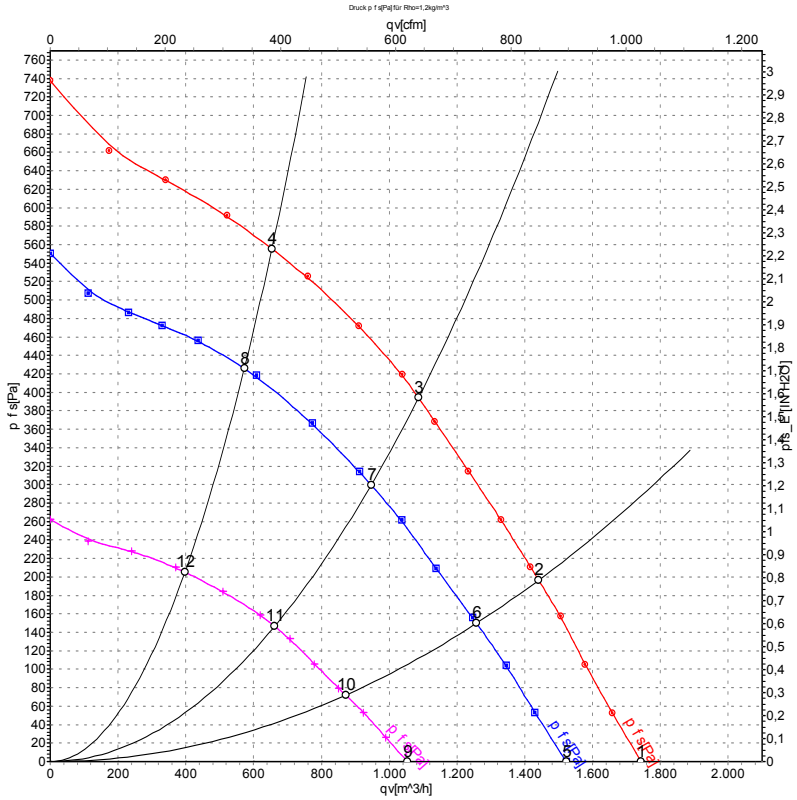
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Curves: Air performance



Measurement: LU-57102-1
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Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	28	2915	188	6.74	1745	0	1025	0.00
2	28	2845	228	8.16	1440	200	850	0.80
3	28	2810	252	9.02	1085	394	640	1.58
4	28	2845	231	8.28	655	555	385	2.23
5	24	2645	135	5.60	1525	0	895	0.00
6	24	2490	154	6.47	1260	150	740	0.60
7	24	2455	171	7.18	945	300	555	1.20
8	24	2490	158	6.61	575	425	335	1.71
9	16	1765	45	2.88	1055	0	620	0.00
10	16	1735	56	3.55	870	72	515	0.29
11	16	1725	61	3.85	660	146	390	0.59
12	16	1735	57	3.58	395	205	235	0.82

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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