

R1G120-AD11-02

# EC centrifugal fan

backward-curved, single-intake



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## Nominal data

Type	R1G120-AD11-02	
Motor	M1G045-BE	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min <sup>-1</sup>	4060
Power consumption	W	26
Current draw	A	0.6
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

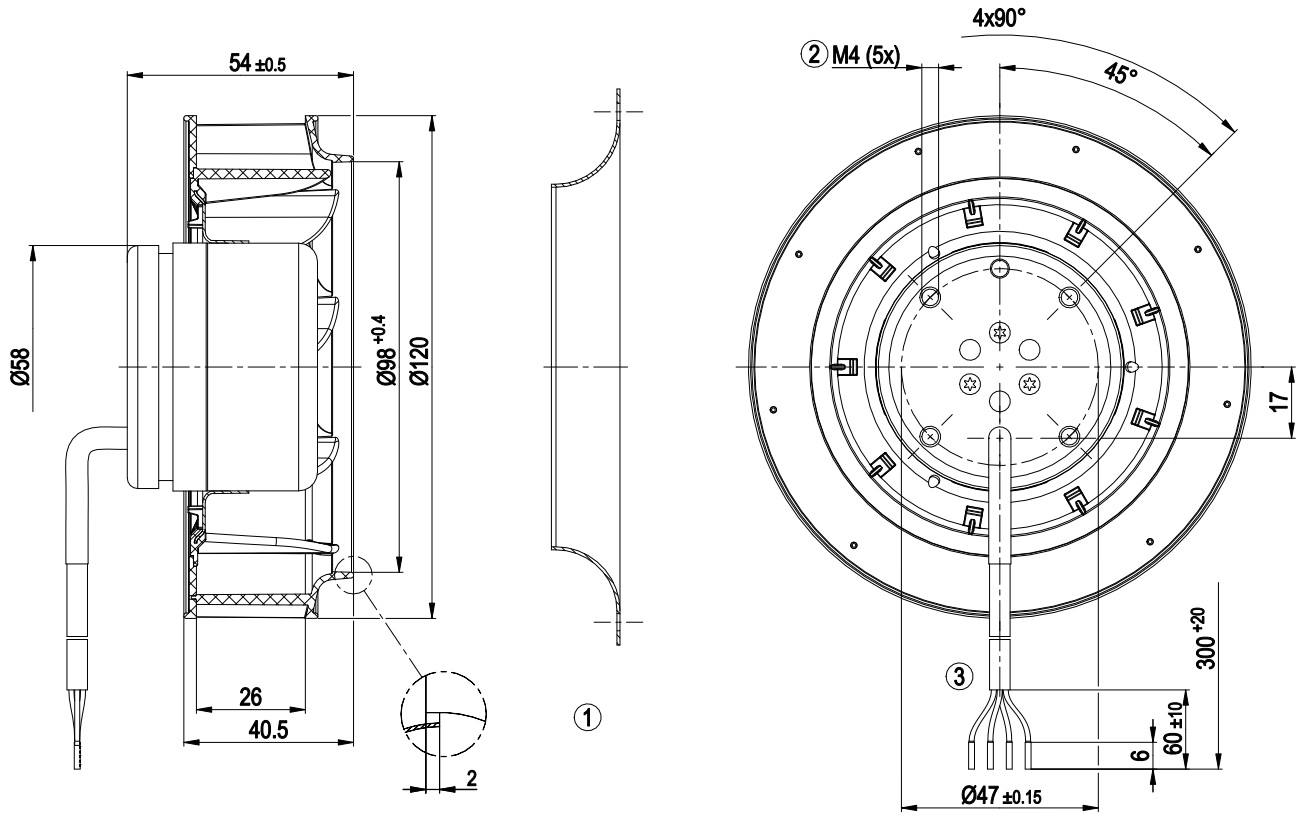
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



### Technical description

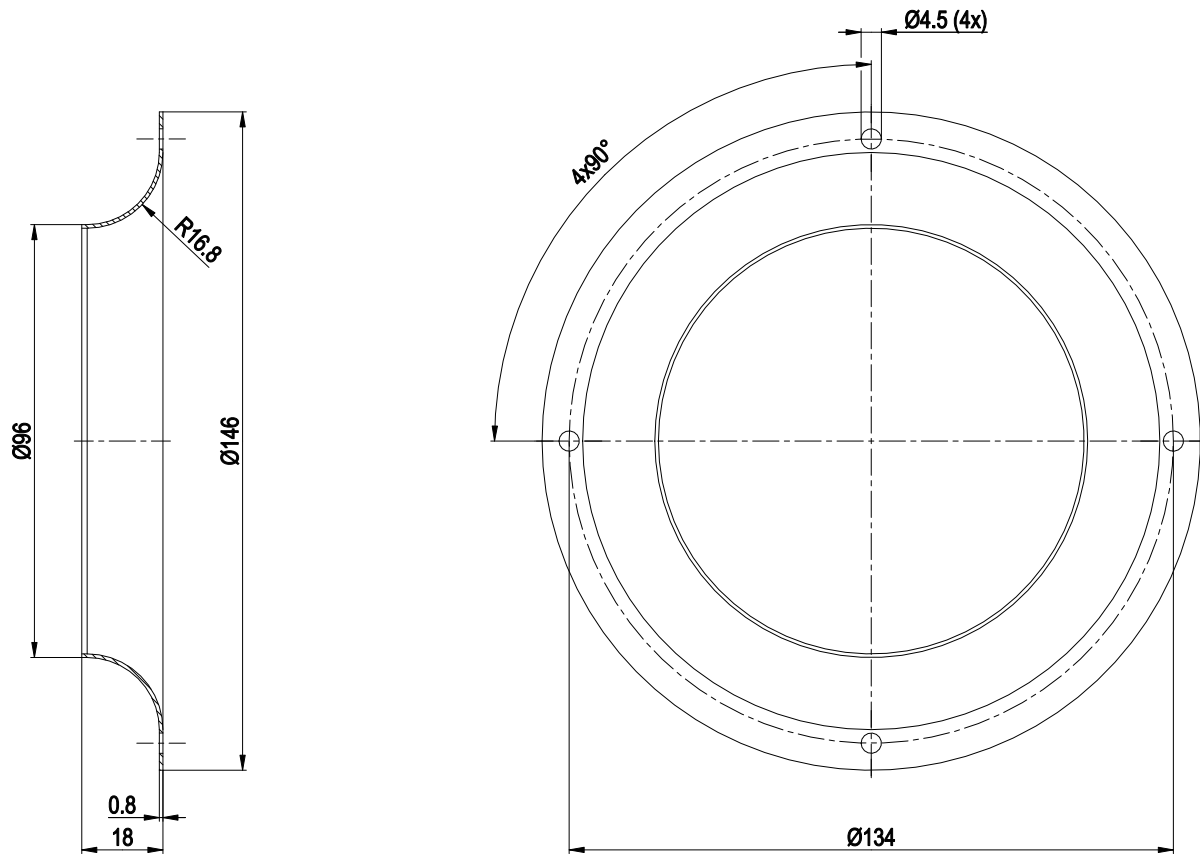
<b>Weight</b>	0.5 kg
<b>Fan size</b>	120 mm
<b>Rotor surface</b>	Galvanized
<b>Impeller material</b>	Glass-fiber reinforced PA plastic
<b>Number of blades</b>	9
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP20
<b>Insulation class</b>	"B"
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	-40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	- Tach output - Control input 0-10 VDC / PWM
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>With cable</b>	Axial
<b>Protection class</b>	I (with customer connection of protective earth)
<b>Conformity with standards</b>	EN 60950-1
<b>Approval</b>	UL 507; EAC

## Product drawing



- |   |   |
|---|---|
| 1 | Accessory part: inlet ring 96120-2-4013 not included in scope of delivery |
| 2 | Max. clearance for screw 5 mm   |
| 3 | Cable AWG22, 4x crimped splices   |

## Accessory part

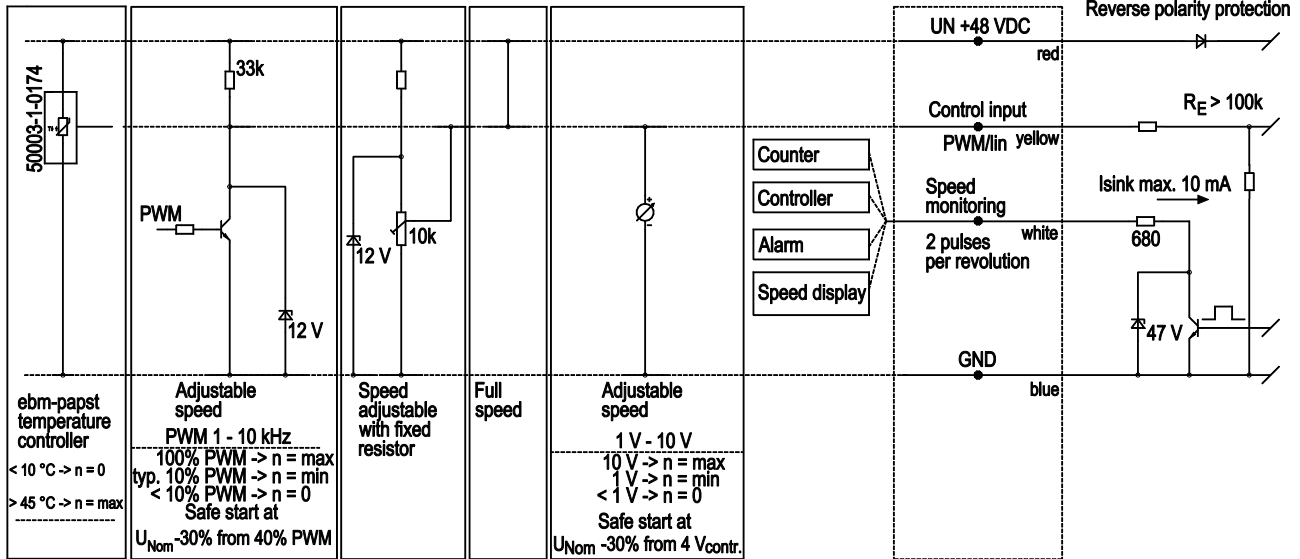


Accessory part: inlet ring 96120-2-4013 not included in scope of delivery

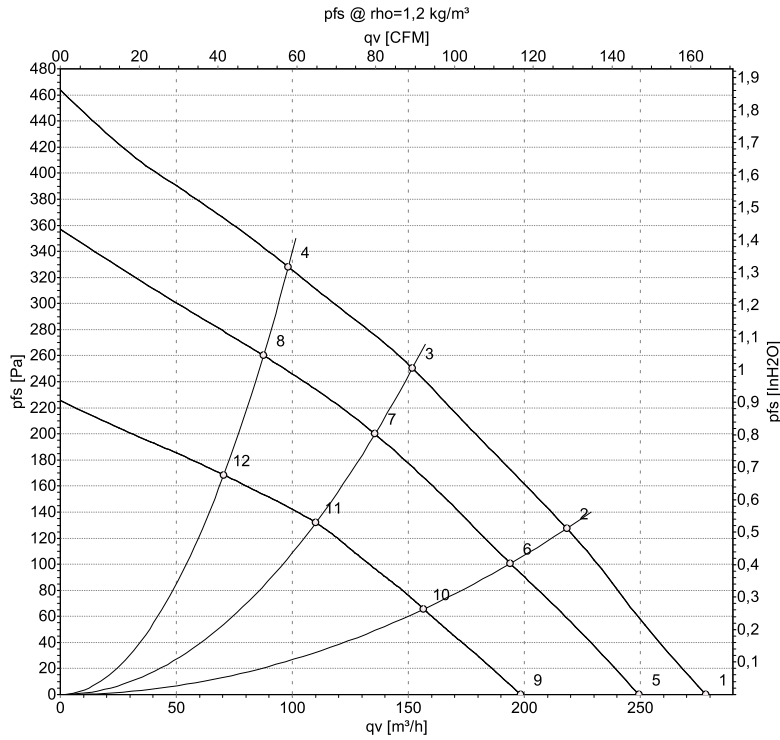
## Connection diagram

**Customer circuit**

Application notes for various control options



## Curves: Air performance



Measurement: LU-58383-1  
 Measurement: LU-58382-1  
 Measurement: LU-58384-1

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 <sub>ed</sub>	I	q <sub>v</sub>	P <sub>fs</sub>	q <sub>v</sub>	P <sub>fs</sub>
	V	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	inH2O
1	57	4520	36	0.70	280	0	165	0.00
2	57	4485	36	0.71	220	127	130	0.51
3	57	4560	35	0.69	150	251	90	1.01
4	57	4755	32	0.63	100	328	60	1.32
5	48	4060	26	0.60	250	0	145	0.00
6	48	4000	26	0.60	195	100	115	0.40
7	48	4065	25	0.58	135	200	80	0.80
8	48	4220	23	0.53	90	260	50	1.04
9	36	3270	14	0.44	200	0	115	0.00
10	36	3250	14	0.45	155	66	90	0.26
11	36	3290	14	0.43	110	133	65	0.53
12	36	3410	13	0.39	70	168	40	0.67

U = Power supply · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · P<sub>fs</sub> = Pressure increase



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