G1G097-AA07-01

EC centrifugal fan

forward-curved, single-intake

with housing (without flange)



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**G1G097-AA07-01**	
Motor	**M1G045-BE**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2650
Power consumption	W	16
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	0.8 kg
Fan size	97 mm
Rotor surface	Thick-film passivated
Impeller material	Sheet steel, hot-dip galvanized
Housing material	Sheet steel, hot-dip galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP22
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	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Soft start - Control input 0-10 VDC / PWM
Motor protection	Reverse polarity and locked-rotor protection
With cable	Axial
Conformity with standards	EN 60950-1
Approval	EAC

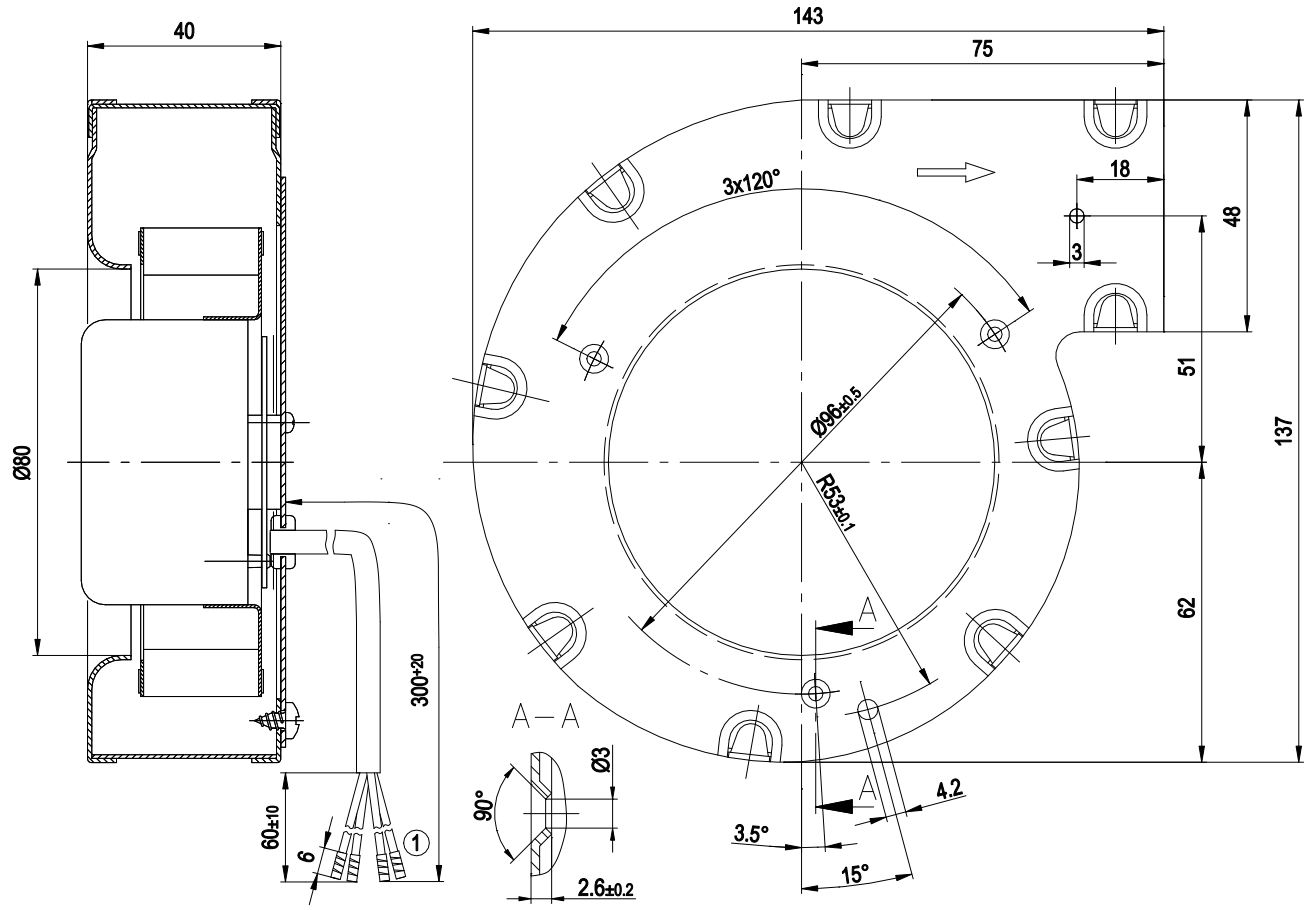
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Product drawing



1	Cable PVC AWG22, 4 x crimped splices

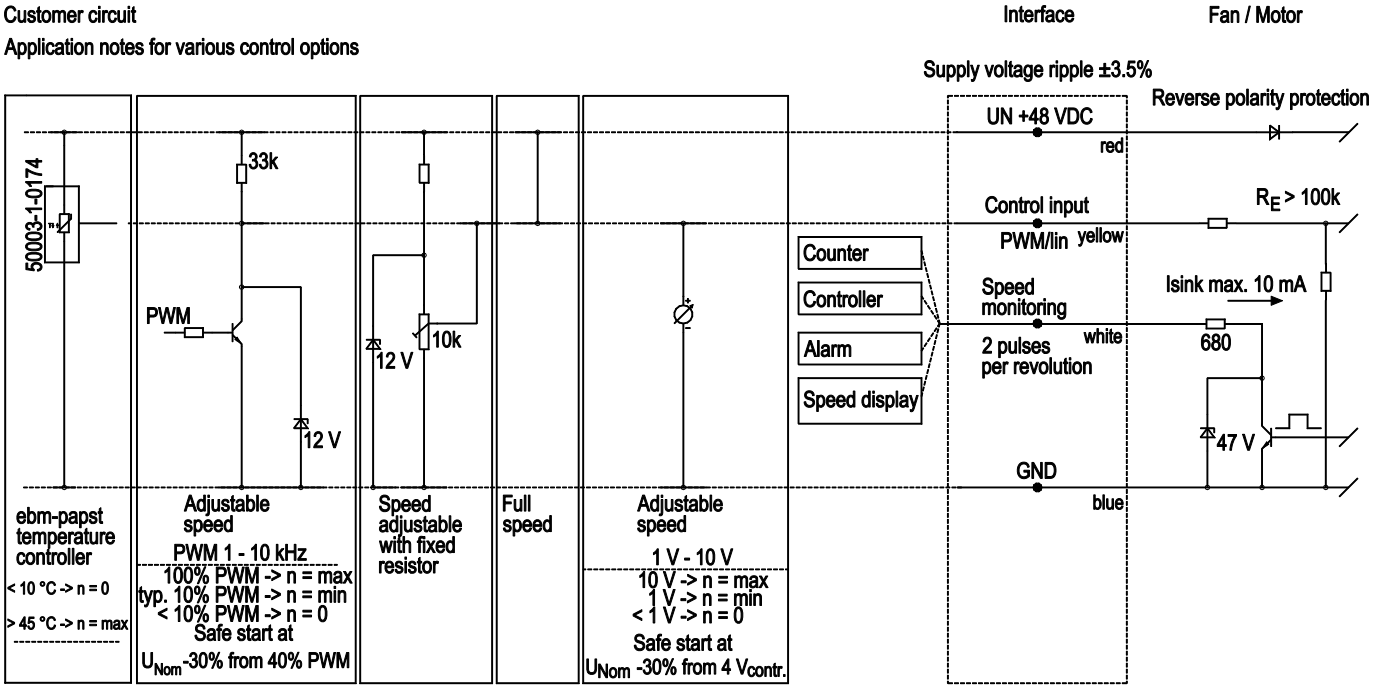
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Connection diagram



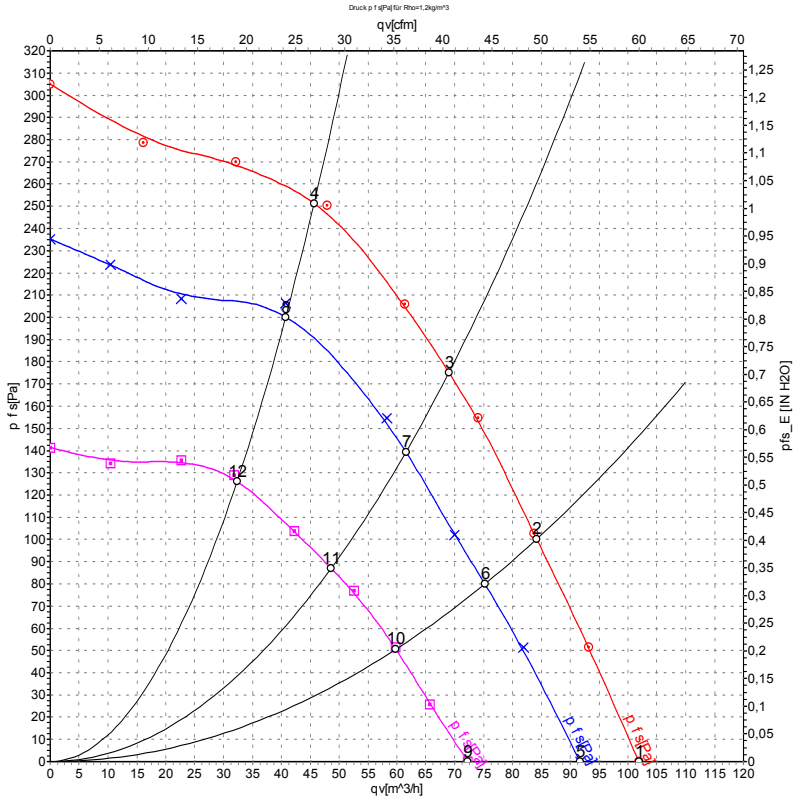
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Curves: Air performance



Measurement: LU-44117-1
Measurement: LU-44116-1
Measurement: LU-44118-1

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_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	56	2820	19	0.39	100	0	60	0.00
2	56	2990	17	0.34	85	100	50	0.40
3	56	3140	15	0.30	70	175	40	0.70
4	56	3385	12	0.24	45	253	25	1.02
5	48	2550	14	0.33	90	0	55	0.00
6	48	2695	12	0.29	75	80	45	0.32
7	48	2820	11	0.26	60	140	35	0.56
8	48	3030	8.6	0.21	40	200	25	0.80
9	36	2080	7.9	0.25	70	0	40	0.00
10	36	2180	7.0	0.22	60	51	35	0.20
11	36	2280	6.1	0.20	50	87	30	0.35
12	36	2415	5.0	0.17	30	128	20	0.51

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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