G2G097-AA36-28

EC centrifugal fan

forward-curved, single-intake

with housing (without flange)

Nominal data

Type	**G2G097-AA36-28**	
Motor	**M2G045-BF**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2500
Power consumption	W	18
Current draw	A	0.8
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	0.7 kg
Fan size	97 mm
Rotor surface	Thick-film passivated
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP22
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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
Motor protection	Reverse polarity and locked-rotor protection
With cable	Axial
Conformity with standards	EN 60950-1

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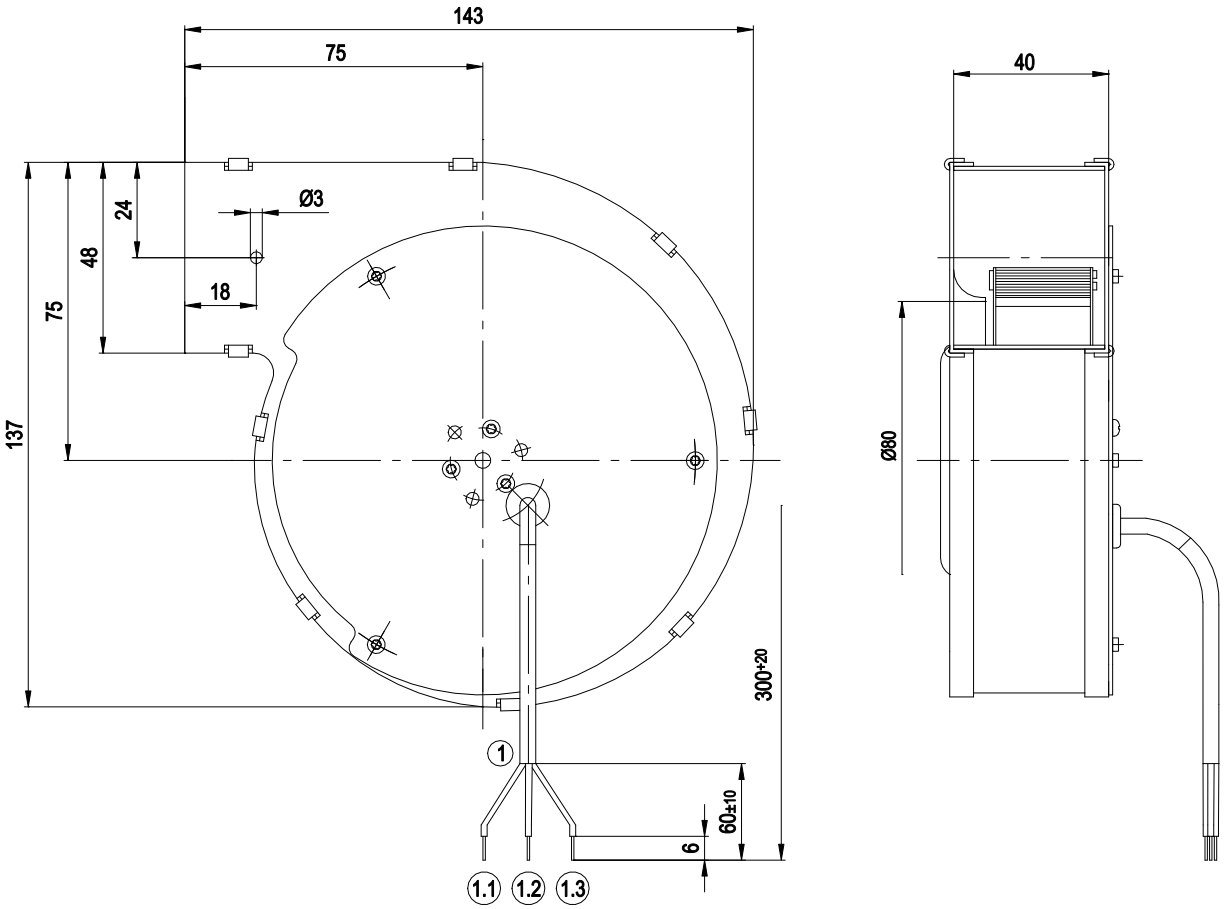
Product drawing



1	Cable PVC AWG22, 3x tin-plated wire ends
1.1	UN +24 VDC (red)
1.2	GND (blue)
1.3	DU (white)

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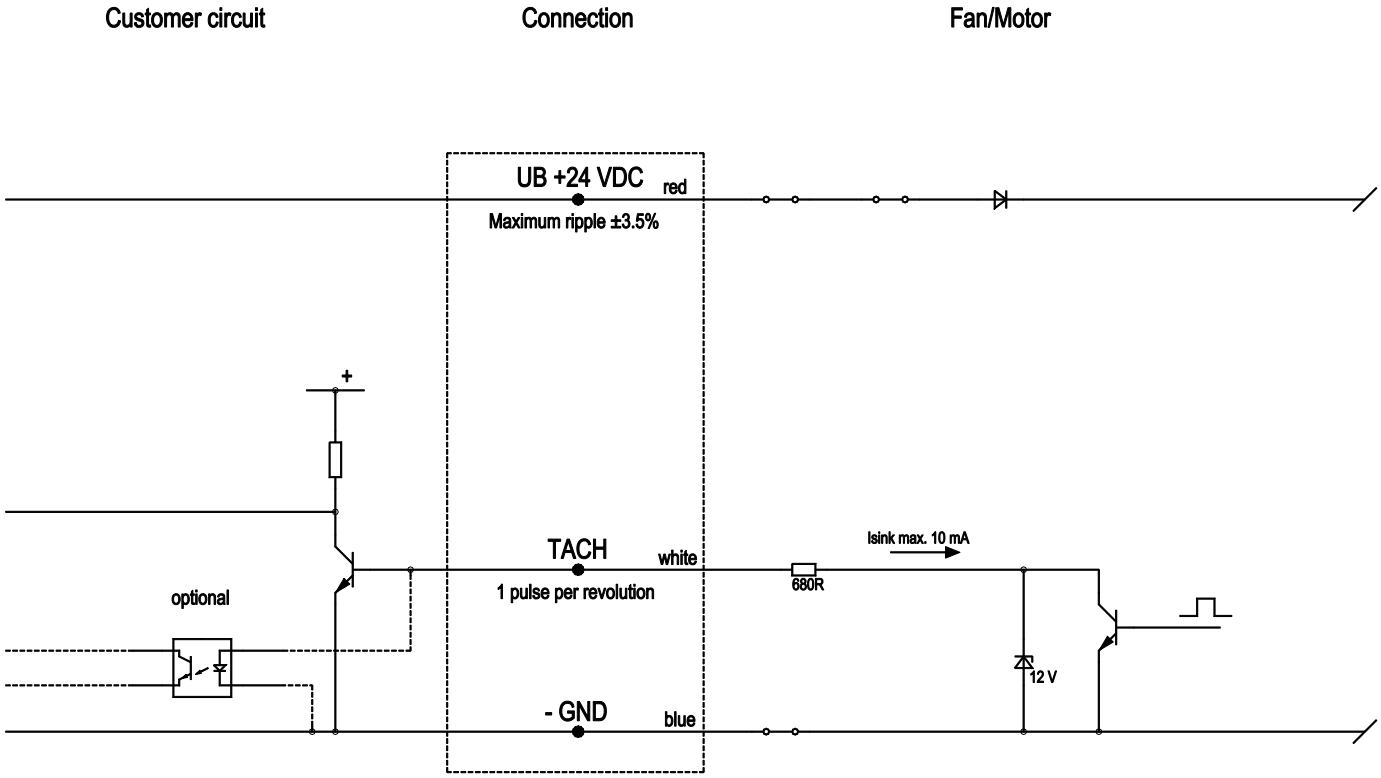
Connection diagram



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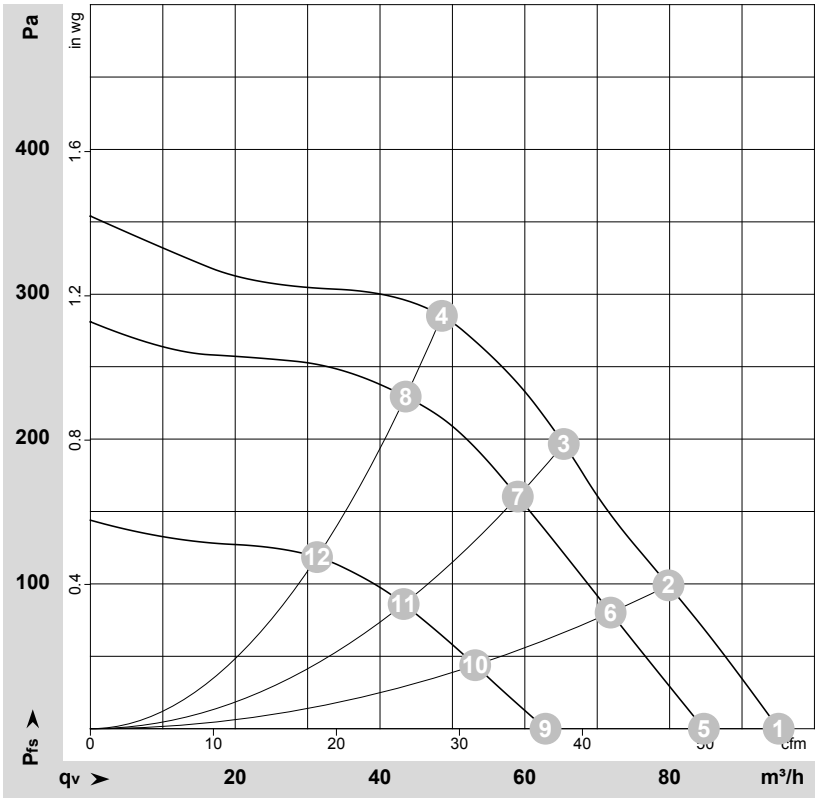
Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-34291-1
Measurement: LU-34290-1
Measurement: LU-34292-1

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	qv	p_{fs}	qv	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	28	2740	24	0.93	95	0	55	0.00
2	28	2965	21	0.82	80	99	45	0.40
3	28	3190	19	0.73	65	198	40	0.79
4	28	3480	16	0.62	50	287	30	1.15
5	24	2500	18	0.80	85	0	50	0.00
6	24	2685	15	0.69	70	80	40	0.32
7	24	2885	14	0.60	60	160	35	0.64
8	24	3135	11	0.51	45	230	25	0.92
9	16	1865	7.0	0.44	65	0	35	0.00
10	16	1990	6.0	0.39	55	44	30	0.18
11	16	2130	5.0	0.34	45	86	25	0.35
12	16	2295	4.0	0.29	30	120	20	0.48

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