G1G097-AA05-07

EC centrifugal fan

backward-curved, single-intake

with housing (without flange)

G1G097-AA05-07 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	**G1G097-AA05-07**	
Motor	**M1G045-BE**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2550
Power consumption	W	15
Current draw	A	0.7
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, 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	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	- Soft start
Electrical hookup	With plug
Motor protection	Reverse polarity and locked-rotor protection
With cable	Axial
Conformity with standards	EN 60950-1

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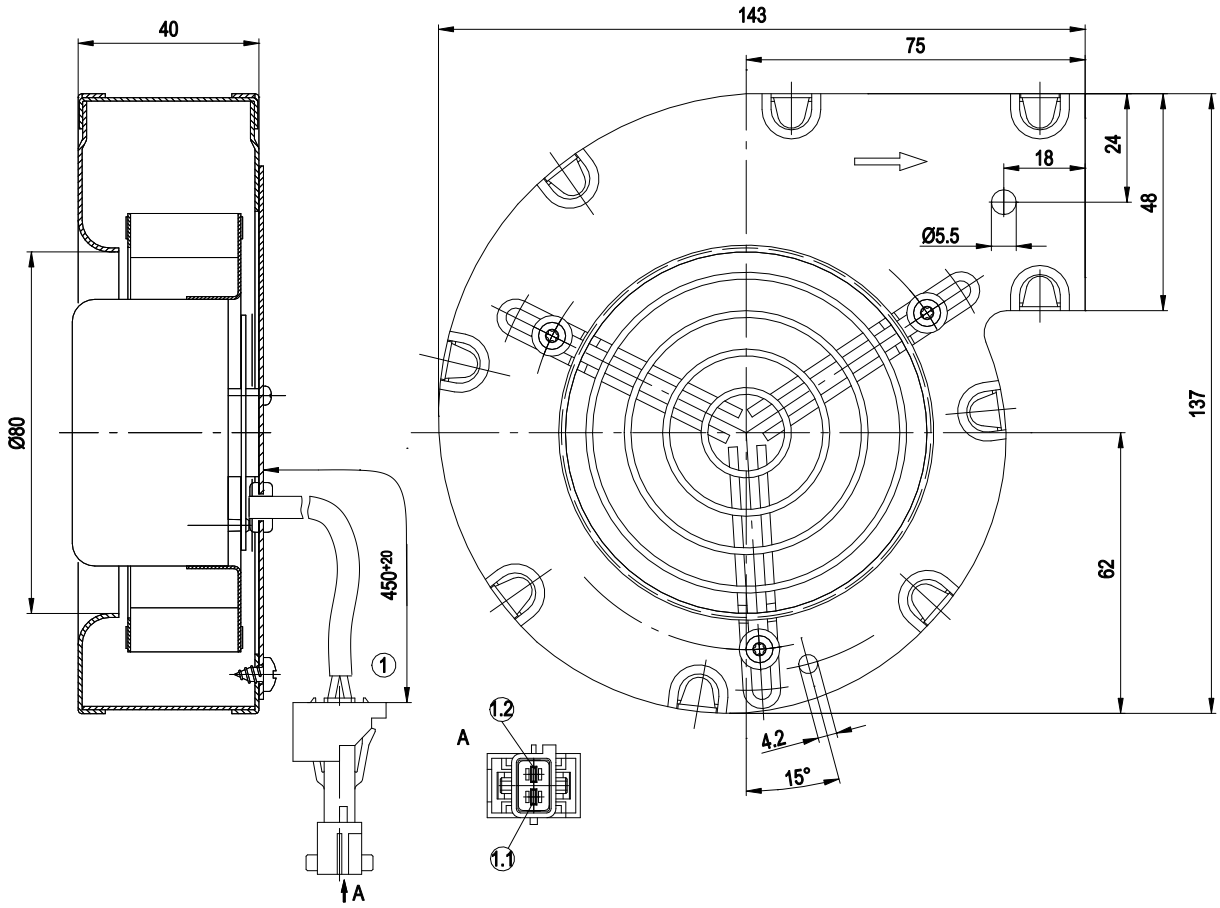
Product drawing



1	Cable PVC AWG20, AMP connector housing 1-965421-1 with 2x AMP flat plug 1-962915-1
1.1	red (+)
1.2	blue (-)

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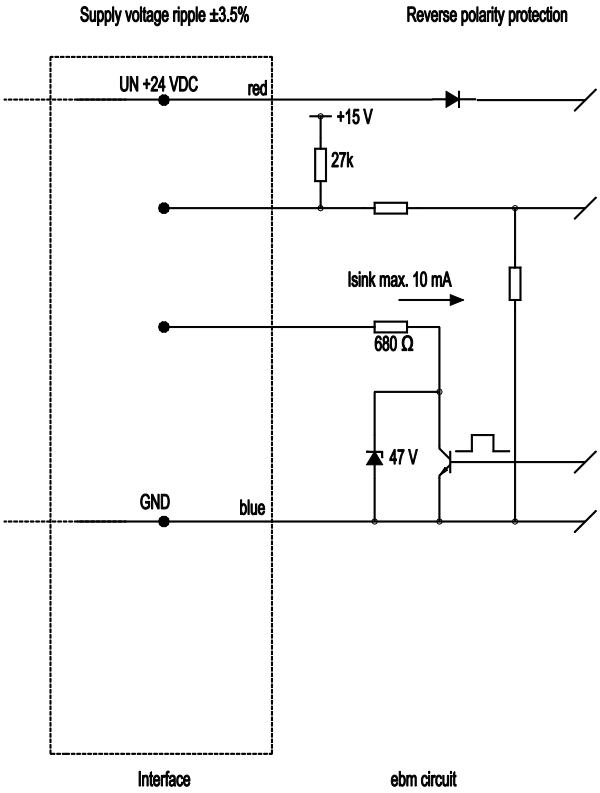
Connection diagram



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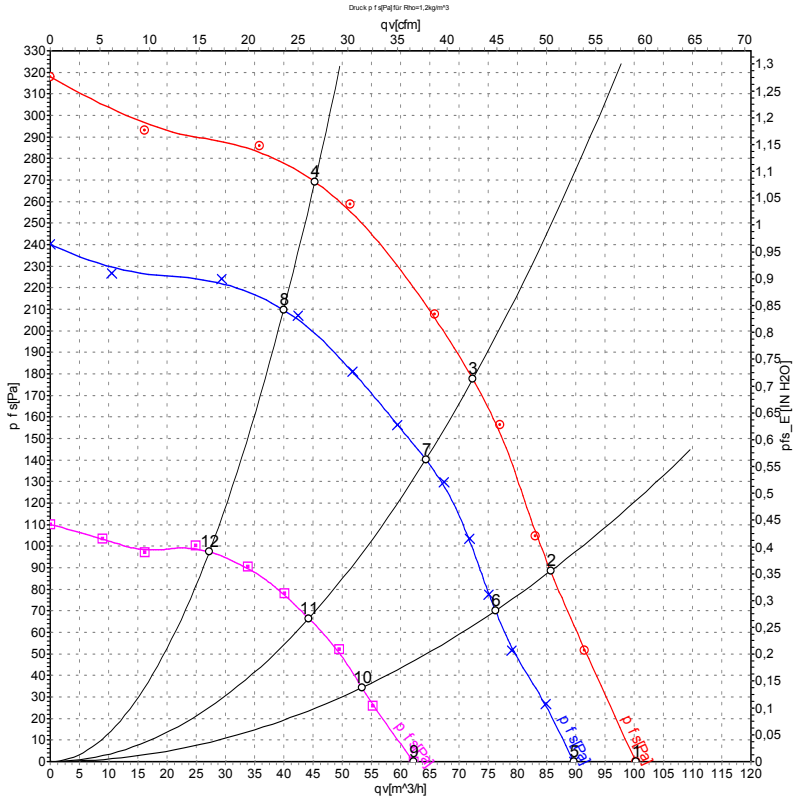
Curves: Air performance



Measurement: LU-53694-1
Measurement: LU-53693-1
Measurement: LU-53695-1

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	28	2825	20	0.78	100	0	60	0.00
2	28	2960	18	0.71	85	88	50	0.35
3	28	3115	16	0.64	70	178	40	0.71
4	28	3410	13	0.52	45	269	25	1.08
5	24	2550	15	0.70	90	0	55	0.00
6	24	2640	13	0.61	75	70	45	0.28
7	24	2755	12	0.55	65	140	40	0.56
8	24	3005	9.4	0.45	40	210	25	0.84
9	16	1820	6.0	0.44	60	0	35	0.00
10	16	1885	5.5	0.41	55	34	30	0.14
11	16	1950	5.0	0.38	45	66	25	0.26
12	16	2085	4.0	0.33	25	98	15	0.39

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