

G2S097-DB03-01

# AC centrifugal fan

forward-curved, single-intake  
with housing (without flange)

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## Nominal data

Type	G2S097-DB03-01		
Motor	M2S042-BF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min <sup>-1</sup>	1450	1150
Power consumption	W	25	23
Current draw	A	0.14	0.13
Min. back pressure	Pa	0	0
Min. back pressure	inH <sub>2</sub> O	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	45	50

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



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## Technical description

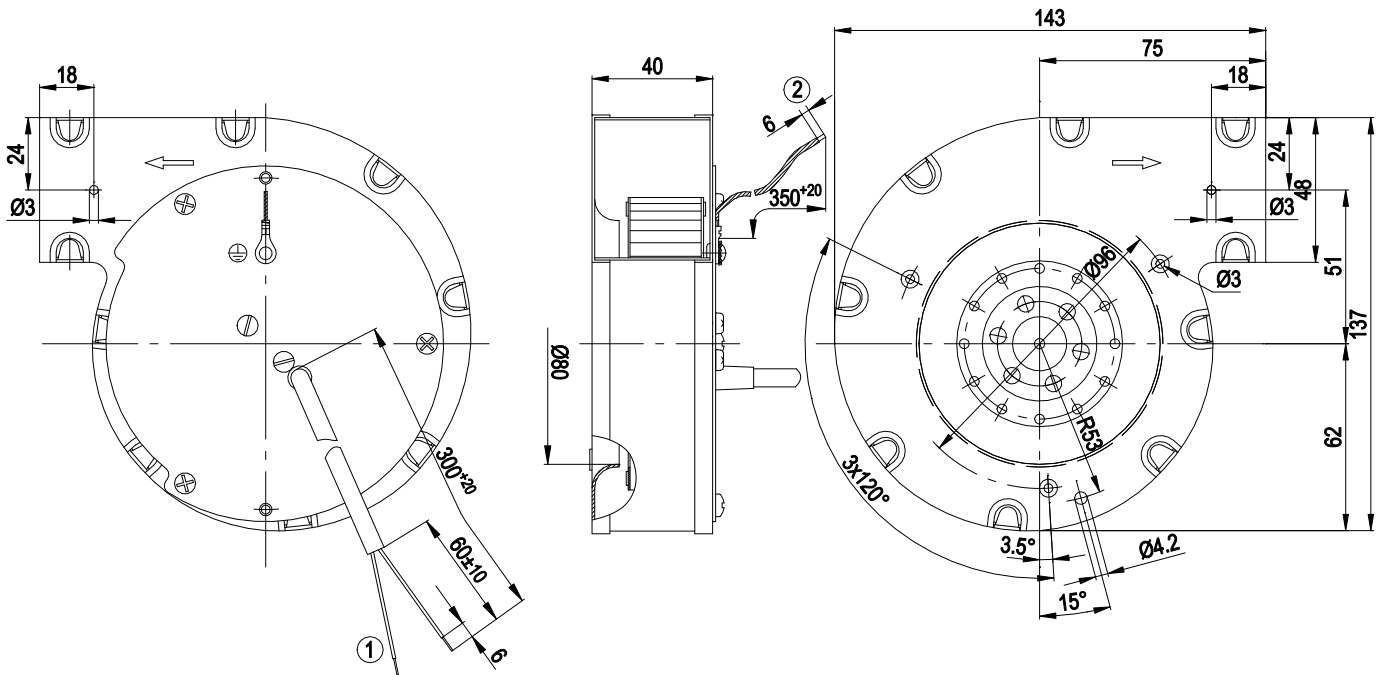
<b>Weight</b>	0.75 kg
<b>Fan size</b>	97 mm
<b>Rotor surface</b>	Rotor open, painted black
<b>Impeller material</b>	Sheet steel, galvanized
<b>Housing material</b>	Sheet steel, galvanized
<b>Support plate material</b>	Sheet steel, galvanized
<b>Motor suspension</b>	Motor fastened on one side to support plate
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP20
<b>Insulation class</b>	"F"
<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, open rotor
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Impedance protection
<b>Protection class</b>	I (with customer connection of protective earth)
<b>Conformity with standards</b>	EN 60335-1; CE



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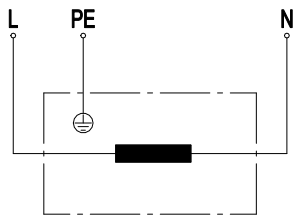
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## Product drawing



- |   |  |
|---|--|
| 1 | Cable PVC 2x 0.25 mm <sup>2</sup> , tin-plated wire ends       |
| 2 | Protective earth PVC 0.5 mm <sup>2</sup> , tin-plated wire end |

## Connection diagram

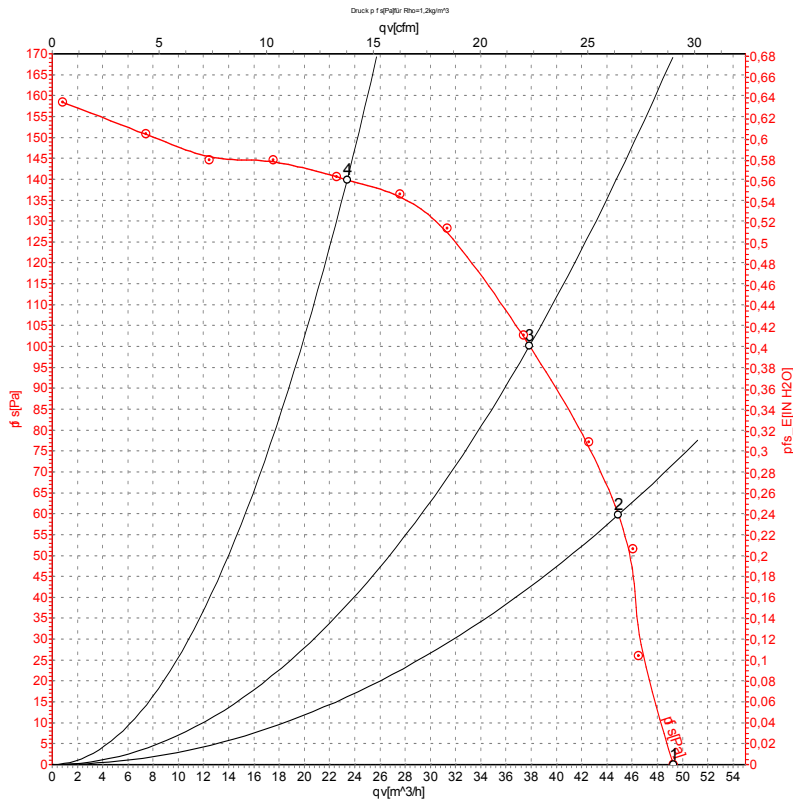


L	blue	PE	green/yellow	N	brown
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## Curves: Air performance 50 Hz



Measurement: LU-47082-1

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	f	n	P <sub>e</sub>	I	qv	p <sub>fs</sub>	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	CFM	inH2O
1	230	50	1450	25	0.14	50	0	30	0.00
2	230	50	1880	23	0.13	45	60	25	0.24
3	230	50	2195	22	0.12	40	100	20	0.40
4	230	50	2470	20	0.11	25	140	15	0.56

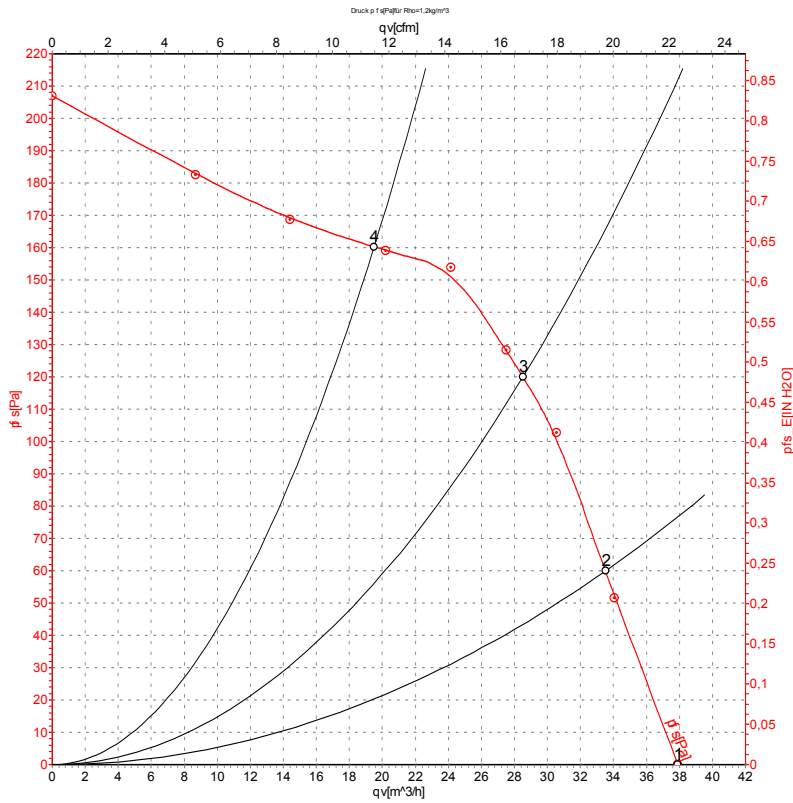
U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase



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## Curves: Air performance 60 Hz



Measurement: LU-47083-1

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	f	n	P <sub>e</sub>	I	qv	p <sub>fs</sub>	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	CFM	inH <sub>2</sub> O
1	230	60	1150	23	0.13	40	0	20	0.00
2	230	60	1715	21	0.12	35	60	20	0.24
3	230	60	2305	20	0.11	30	120	15	0.48
4	230	60	2705	19	0.10	20	160	10	0.64

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase



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