

G2G085-AB02-01

EC centrifugal fan

forward-curved, single-intake
with housing (flange)



G2G085-AB02-01 ebmpapst Datasheet

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Nominal data

Type	G2G085-AB02-01	
Motor	M2G045-BF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	18 .. 30
Method of obtaining data		fa
Speed	min ⁻¹	2300
Power consumption	W	12
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	65

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



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Technical description

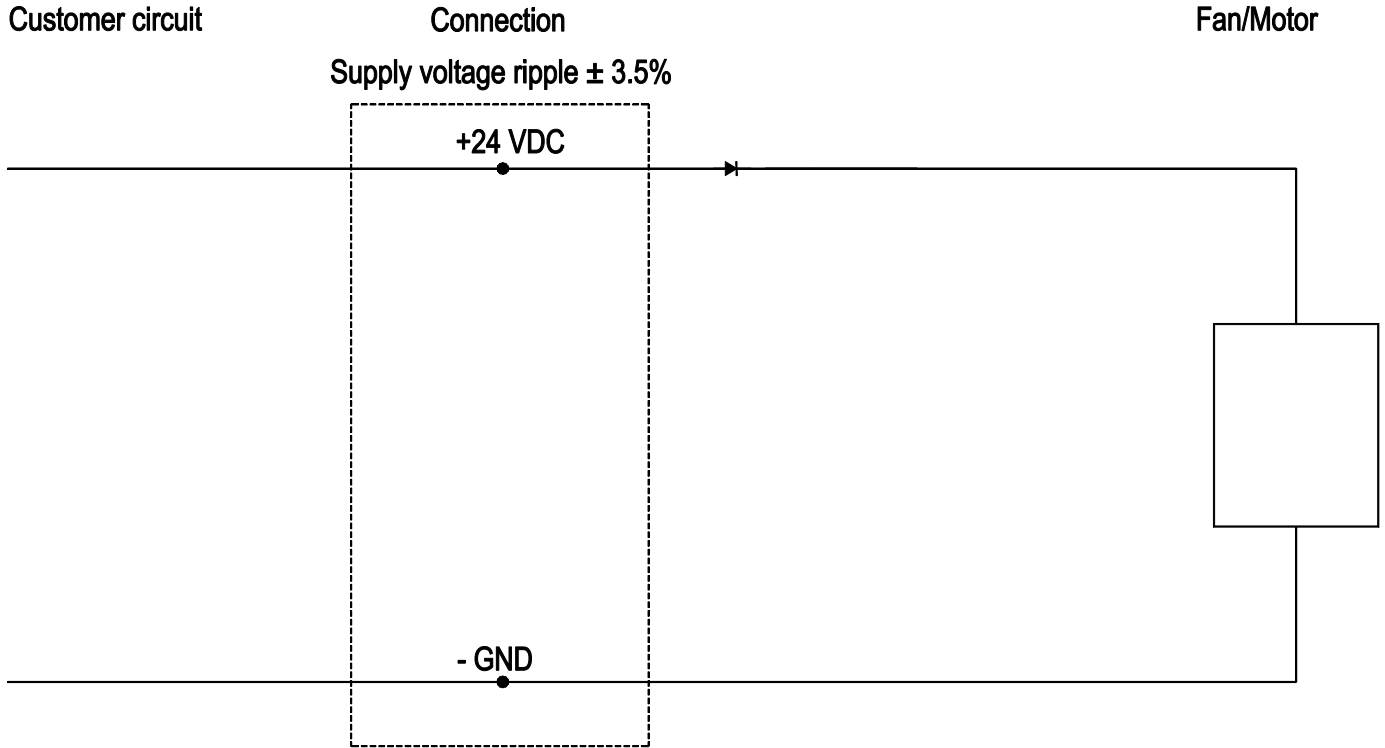
Weight	0.84 kg
Fan size	85 mm
Rotor surface	Thick-film passivated
Impeller material	Sheet steel, hot-dip galvanized
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP22
Insulation class	"B"
Max. permitted ambient temp. for motor (transport/storage)	+ 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
Motor protection	Reverse polarity and locked-rotor protection
With cable	Axial
Conformity with standards	EN 60950-1



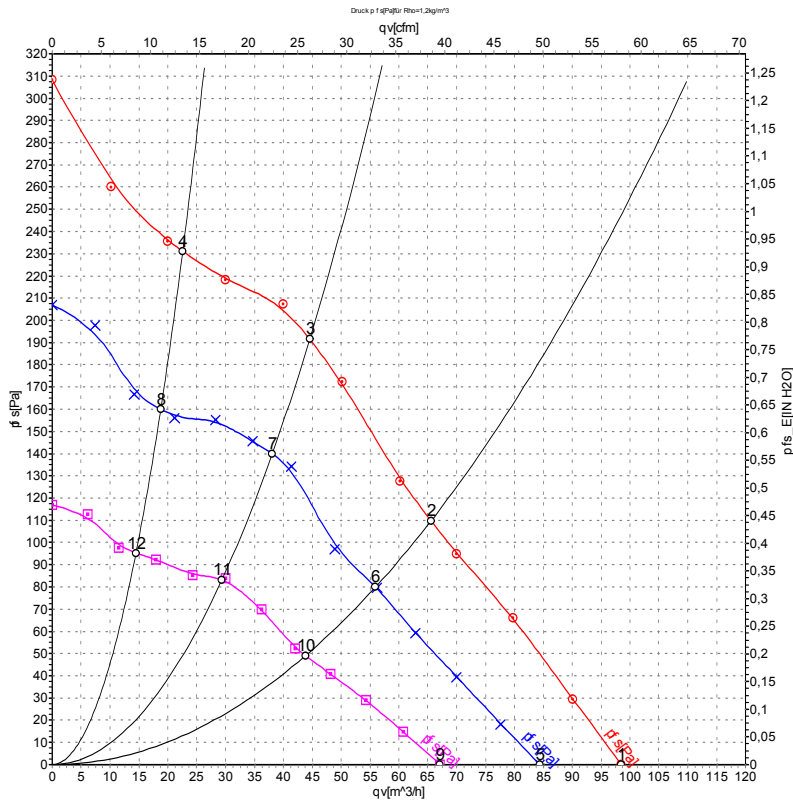
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Connection diagram



Curves: Air performance



Measurement: LU-126372-1
 Measurement: LU-126371-1
 Measurement: LU-126374-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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}
	V	min ⁻¹	W	A	m ³ /h	Pa
1	30	2910	19	0.69	100	0
2	30	3355	15	0.53	65	110
3	30	3655	12	0.43	45	192
4	30	3985	10.0	0.35	25	231
5	24	2520	12	0.52	85	0
6	24	2875	9.0	0.39	55	80
7	24	3105	7.5	0.32	40	140
8	24	3320	6.3	0.27	20	160
9	18	2040	6.0	0.35	65	0
10	18	2280	4.7	0.27	45	49
11	18	2460	3.8	0.22	30	84
12	18	2580	3.2	0.20	15	95

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

