G2G085-AB02-01

EC centrifugal fan

forward-curved, single-intake

with housing (flange)



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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 (rpm)	min^{-1}	2300
Power consumption	W	12
Min. back pressure	Pa	0
Min. back pressure	inH2O	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

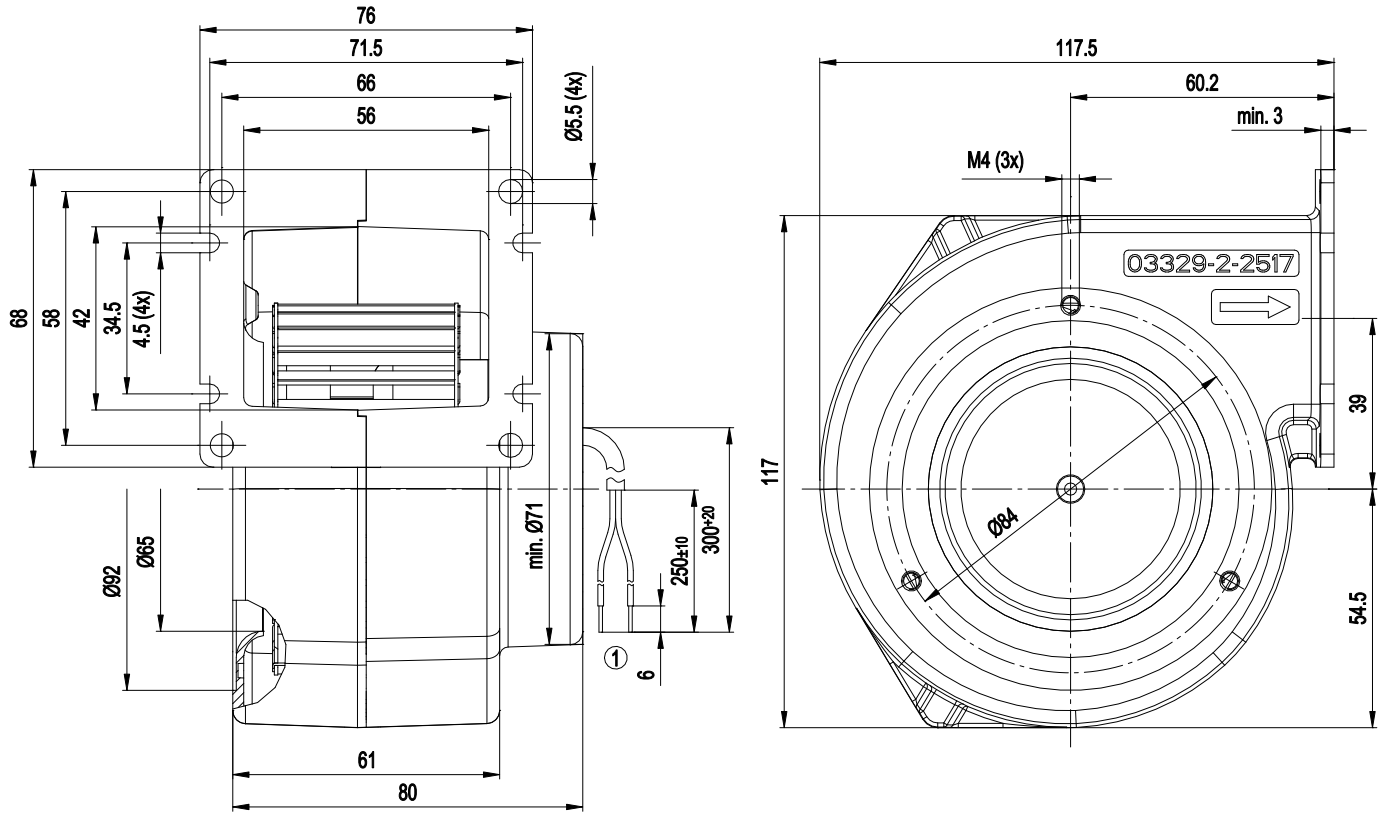
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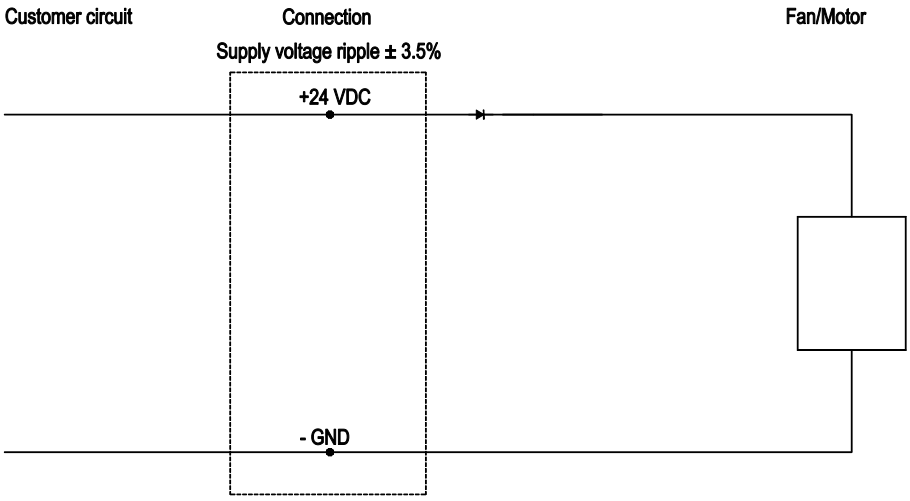
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Product drawing



1	Cable PVC AWG22, 2x tin-plated wire ends

Connection diagram



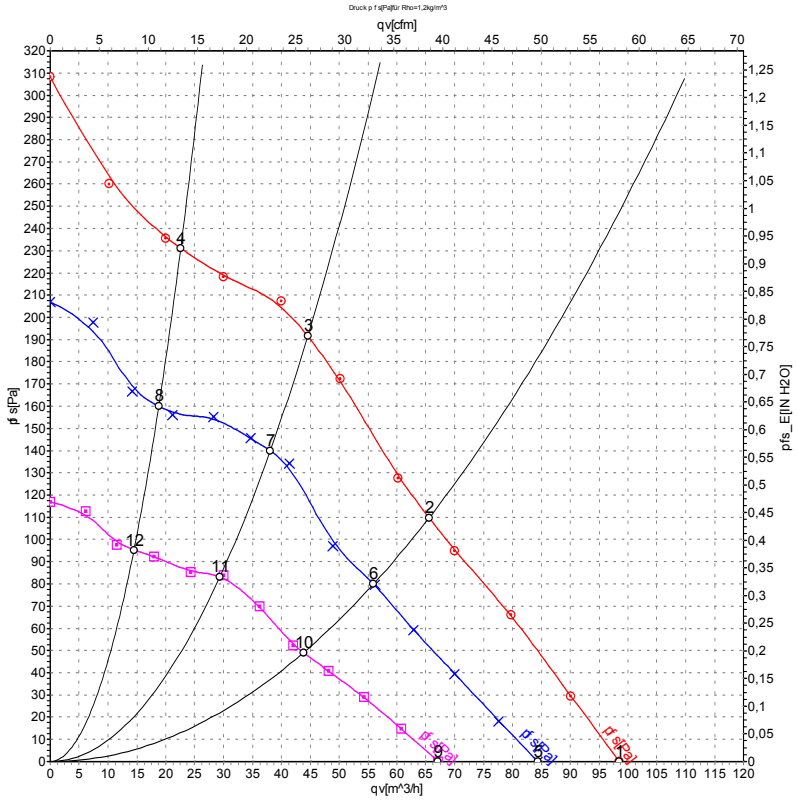
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Curves: Air performance



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 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	30	2910	19	0.69	100	0	60	0.00
2	30	3355	15	0.53	65	110	40	0.44
3	30	3655	12	0.43	45	192	25	0.77
4	30	3985	10.0	0.35	25	231	15	0.93
5	24	2520	12	0.52	85	0	50	0.00
6	24	2875	9.0	0.39	55	80	35	0.32
7	24	3105	7.5	0.32	40	140	20	0.56
8	24	3320	6.3	0.27	20	160	10	0.64
9	18	2040	6.0	0.35	65	0	40	0.00
10	18	2280	4.7	0.27	45	49	25	0.20
11	18	2460	3.8	0.22	30	84	15	0.34
12	18	2580	3.2	0.20	15	95	10	0.38

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

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