G2G085-AB02-06

EC centrifugal fan

forward curved, single inlet

with housing (flange), Automotive



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Nominal data

Type	**G2G085-AB02-06**	
Motor	**M2G045-BF**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	18 .. 30
Type of data definition		fa
Speed (rpm)	min^{-1}	2300
Power input	W	12
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	65

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

Mass	0.84 kg
Size	85 mm
Surface of rotor	Thick layer passivated
Material of impeller	Sheet steel, galvanised
Housing material	Die-cast aluminium
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 22
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H0 - dry environment
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Axial
Product conforming to standard	EN 60950-1

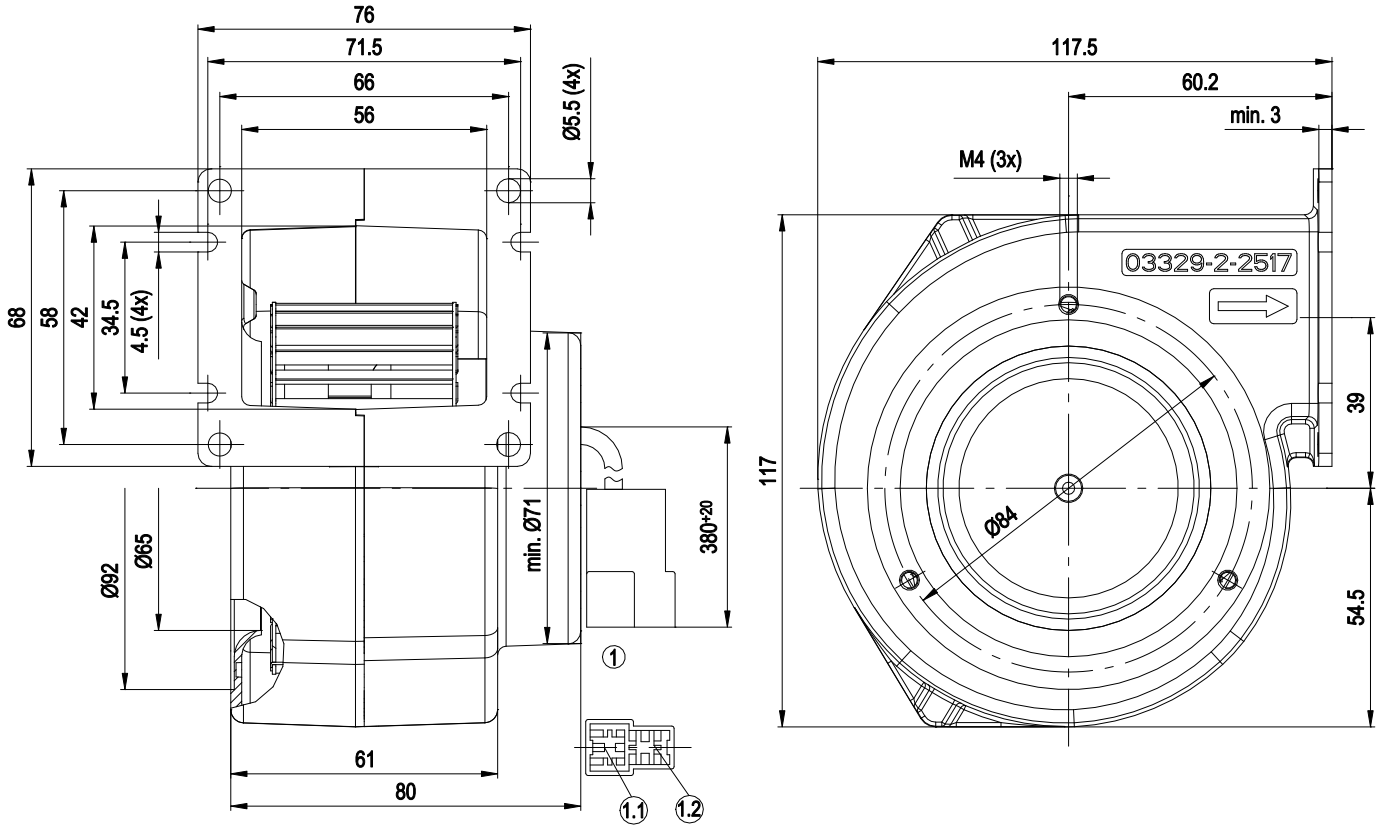
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Product drawing



1	Connection line PVC 2x FLRY 0.5-B, with connector housing tyco 180 908-0
1.1	GND
1.2	UB +24 VDC

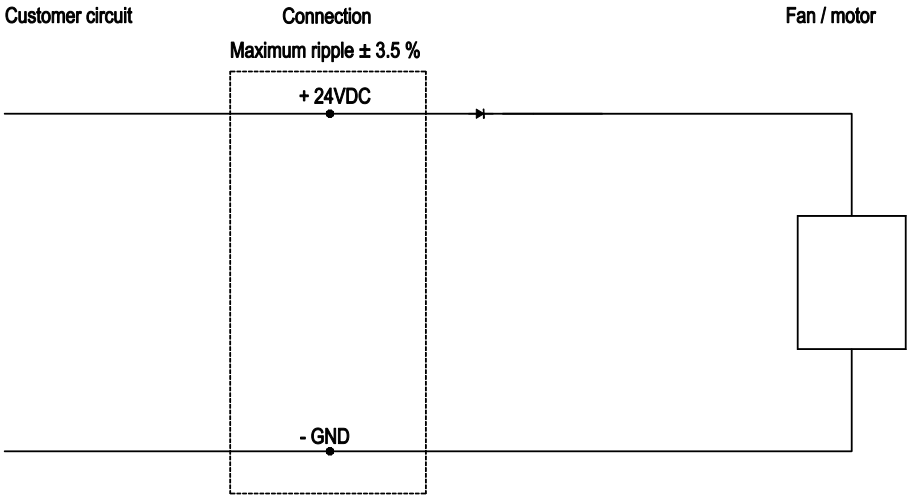
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Connection screen



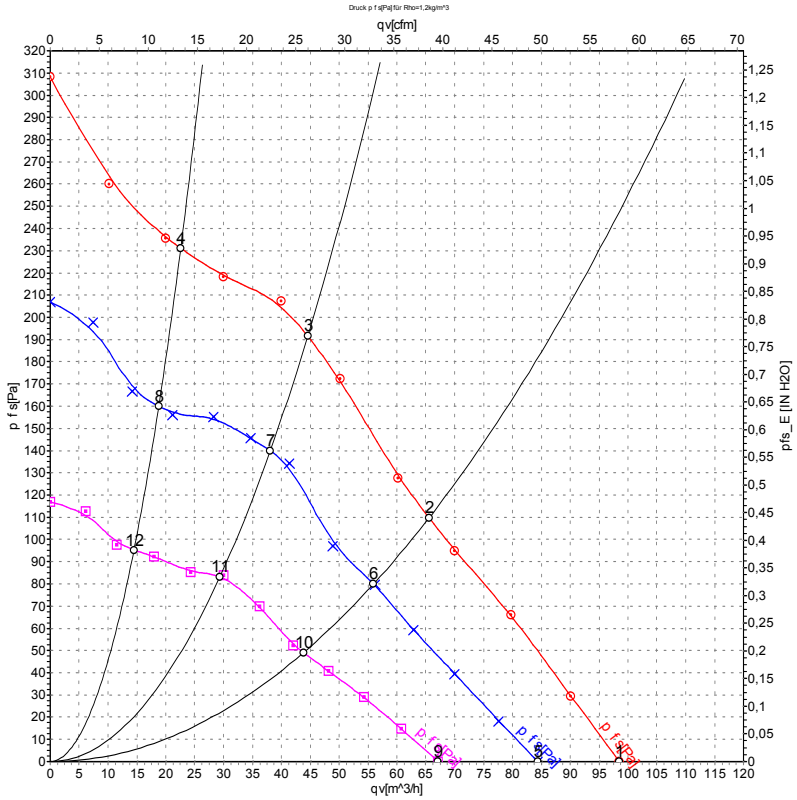
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Charts: Air flow



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

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

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	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 = Supply voltage · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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