D3G097-BN05-11

EC centrifugal fan

forward curved, dual inlet

with housing (without flange)

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Nominal data

Type	**D3G097-BN05-11**
Motor	**M3G045-BI**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	1850
Power input	W	37
Current draw	A	0.35
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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	1.6 kg
Size	97 mm
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Material of support structure	PA plastic
Material of guard grille	Steel, coated in white aluminium plastic (RAL 9006)
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54; Depending on installation and position
Insulation class	"B"
Humidity class	F3-1
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
Technical features	- Speed adjustment input (230 V) - Motor current limit - Soft start - Over-temperature protected electronics / motor
Speed steps	2
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	With plug
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer at the connection point of the housing)
Product conforming to standard	EN 60335-1; CE

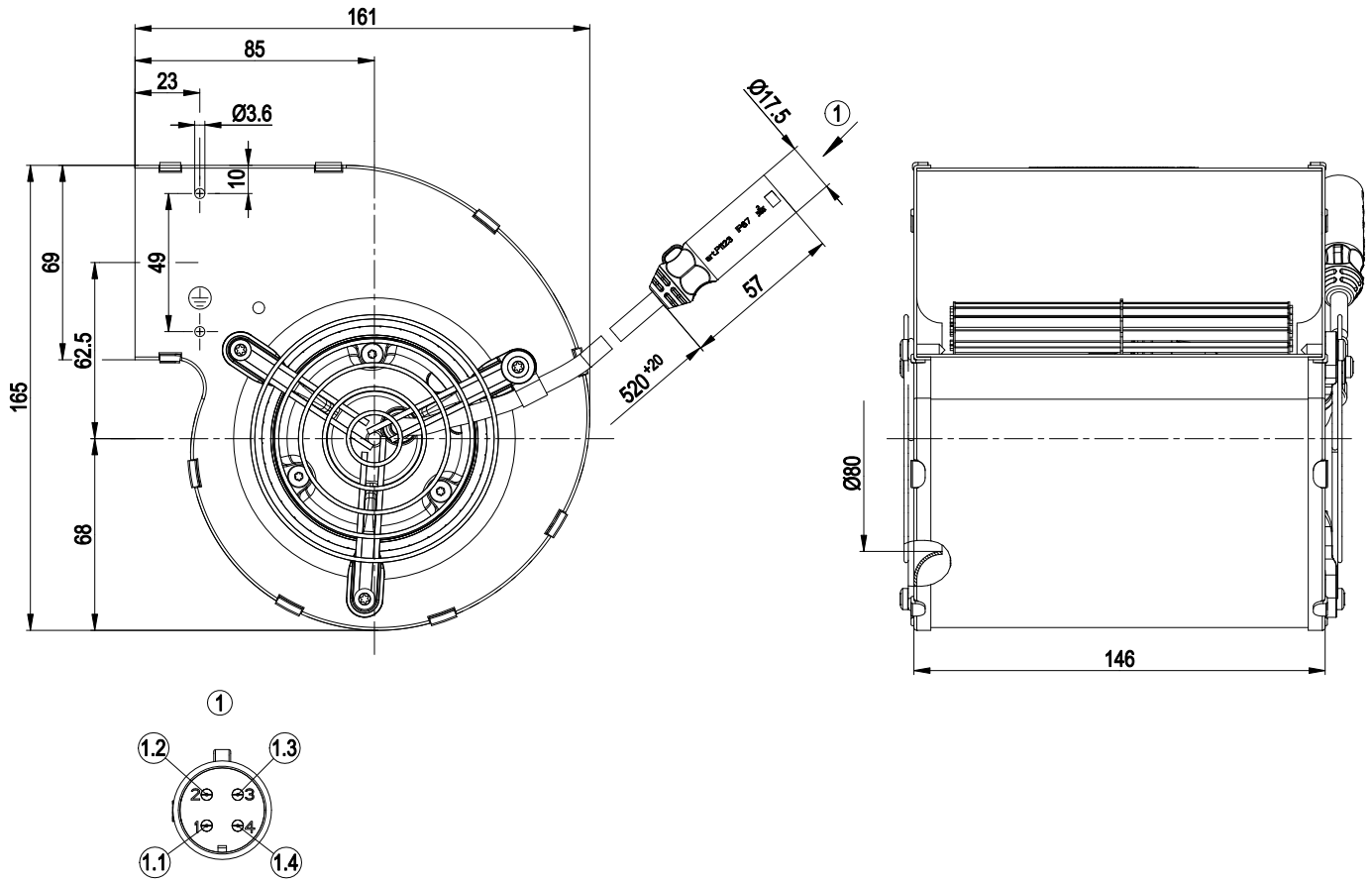
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Product drawing



1	Connection line PVC 4G 0.5 mm² with PLASTIC connector P1123
1.1	N (blue)
1.2	L (black)
1.3	FE (green/yellow)
1.4	SL (brown)

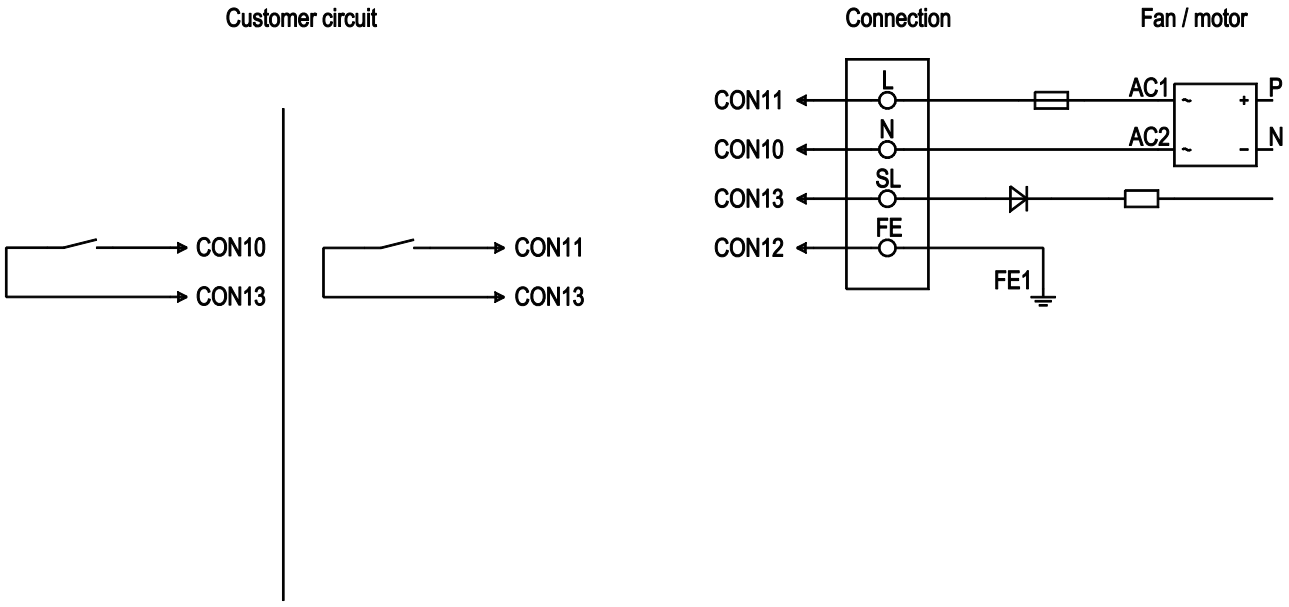
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	CON 11	L	black	Power supply 230 VAC, 50 - 60 Hz, see type plate for voltage range
	CON 10	N	blue	Neutral conductor
	CON 12	FE	green/yellow	Functional earthing
	CON 13	SL	brown	Speed selection: switch open = speed 1; switch closed = speed 2

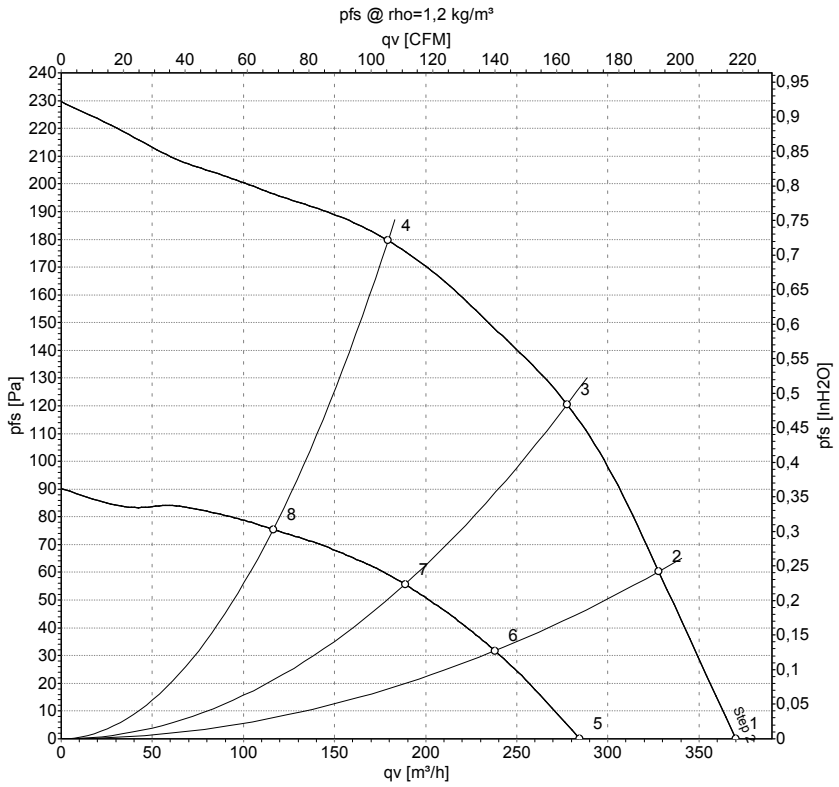
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Charts: Air flow 50 Hz



Measurement: LU-141433
Measurement: LU-140107

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

	Stage	U	f	n	P_{ed}	I	LpA_{in}	LwA_{in}	qv	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa
1	2	230	50	1850	37	0.35	54	66	370	0
2	2	230	50	2075	37	0.35	53	64	330	60
3	2	230	50	2340	36	0.34	52	63	280	120
4	2	230	50	2605	27	0.28	51	61	180	180
5		230	50	1405	17	0.18			285	0
6		230	50	1490	15	0.17			240	32
7		230	50	1575	12	0.15			190	56
8		230	50	1680	9.0	0.12			115	75

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
p_{fs} = Pressure increase

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