

K3G220-CD17-01

EC centrifugal module

backward curved, single inlet
with housing



K3G220-CD17-01 ebmpapst Datasheet
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Nominal data

Type	K3G220-CD17-01	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	2670
Power input	W	105
Current draw	A	0.78
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



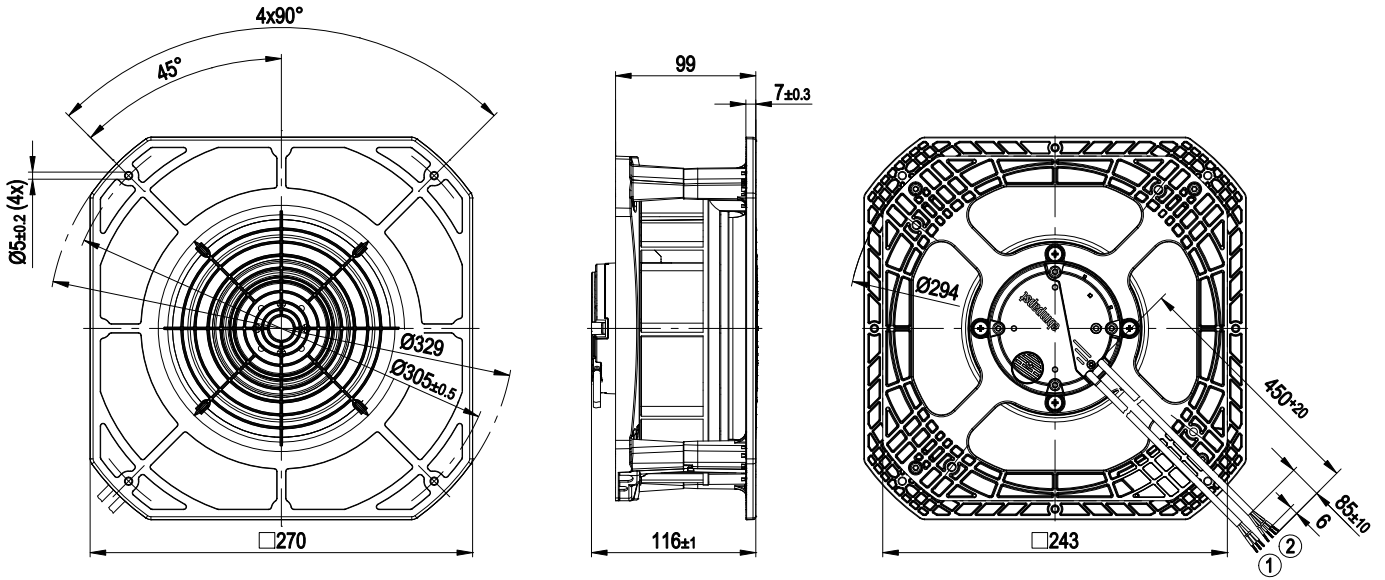
Technical features

Mass	1.8 kg
Size	220 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	Plastic PA6, fibreglass-reinforced
Housing material	Plastic PA6, fibreglass-reinforced
Number of blades	11
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
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	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	<ul style="list-style-type: none"> - Control input 0-10 VDC / PWM - Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start
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
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

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Product drawing



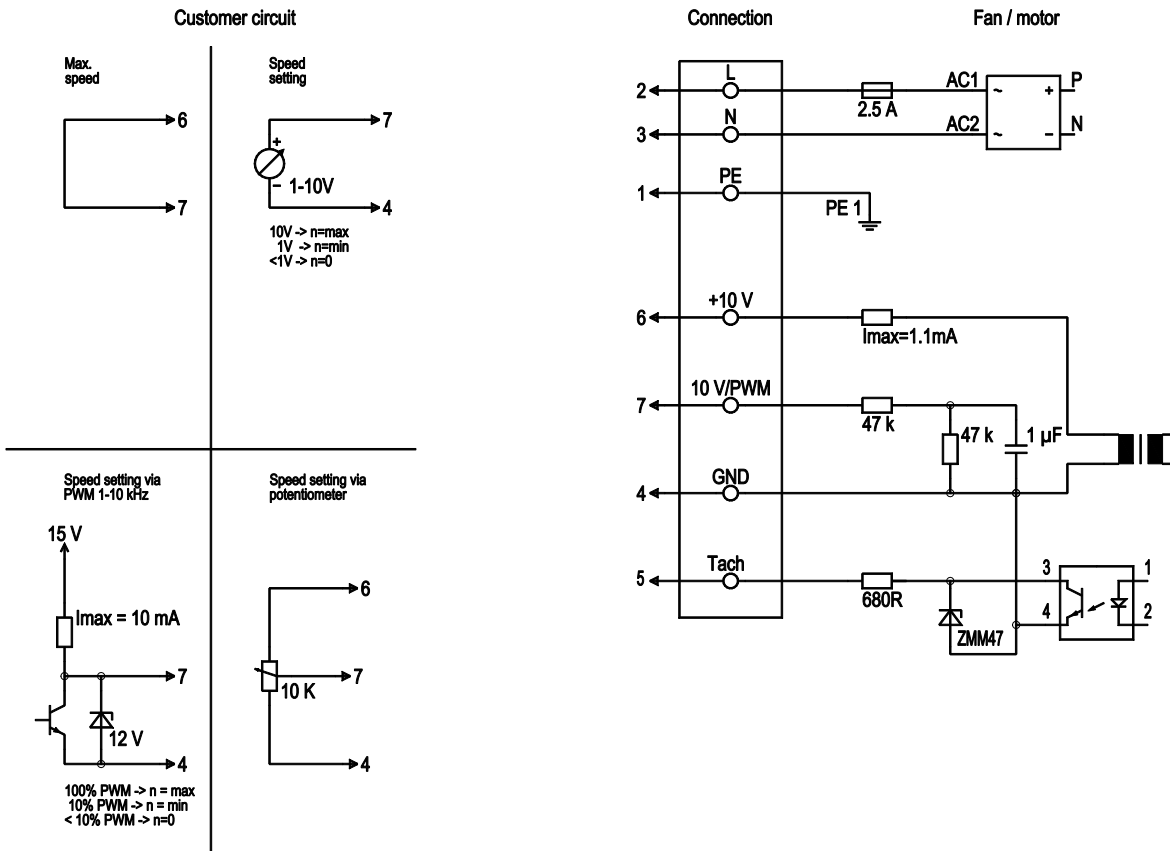
- | | |
|---|--|
| 1 | Connection line H03VV-F3G0.5, 3 x brass lead tips crimped |
| 2 | Connection line A03VV-F4x0.25, 4 x brass lead tips crimped |



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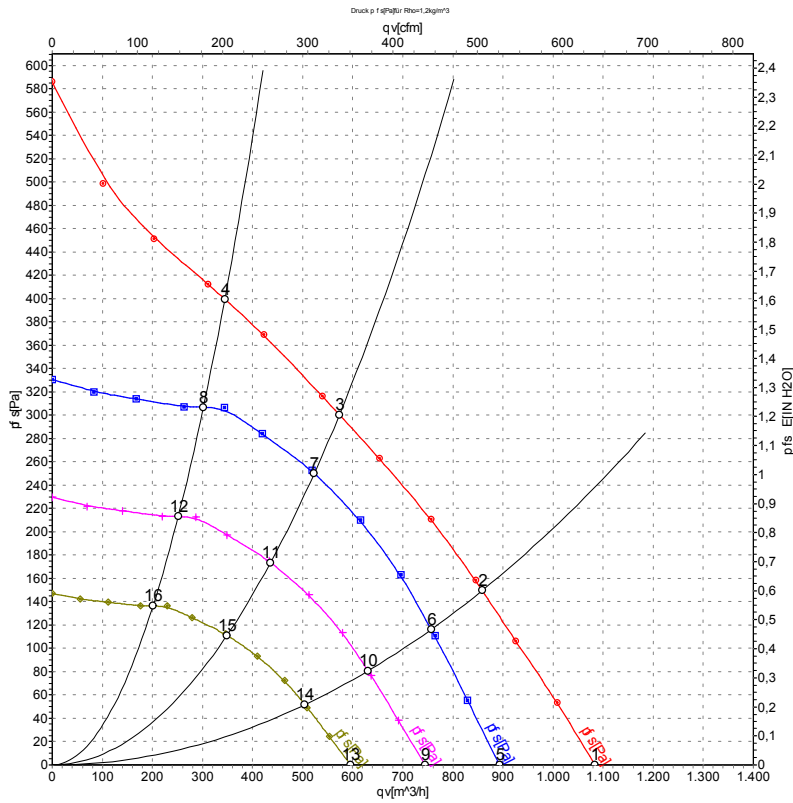
Connection screen



Line	No.	Signal	Colour	Function / assignment
	2	L	brown	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	7	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	5	Tach	white	Tach output: Open Collector, 1 pulse per revolution, electrically isolated
	6	10V / max. 1.1 mA	red	Voltage output 10V / 1.1mA, electrically isolated, not short-circuit-proof
	4	GND	blue	GND - Connection for control interface



Charts: Air flow 50 Hz



Measurement: LU-124376

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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	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	230	50	2990	76	0.56	69	76	1085	0
2	230	50	2780	97	0.71	65	72	860	150
3	230	50	2670	105	0.78	63	70	575	300
4	230	50	2720	101	0.75	65	73	345	400
5	230	50	2400	47	0.34	64	71	895	0
6	230	50	2400	69	0.50	62	70	755	117
7	230	50	2400	88	0.65	61	68	525	251
8	230	50	2400	75	0.57	62	70	300	307
9	230	50	2000	27	0.20	60	67	745	0
10	230	50	2000	40	0.29	58	66	630	81
11	230	50	2000	51	0.37	57	64	435	174
12	230	50	2000	44	0.33	58	66	250	213
13	230	50	1600	14	0.10	55	62	595	0
14	230	50	1600	20	0.15	53	61	505	52
15	230	50	1600	26	0.19	52	60	350	112
16	230	50	1600	22	0.17	54	61	200	136

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

