

K3G190-RG23-01

EC centrifugal module - RadiCal

backward curved, single inlet
with housing

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General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen
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Nominal data

Type	K3G190-RG23-01	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	3374
Power input	W	96
Current draw	A	0.8
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+60

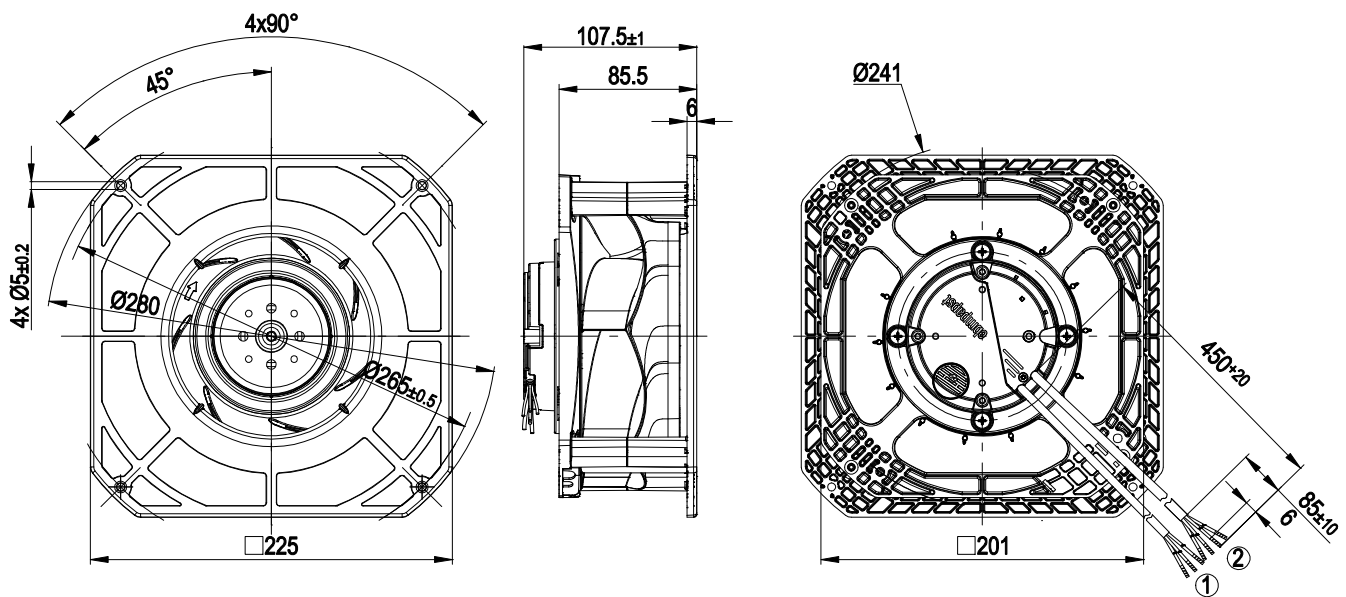
ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



Technical features

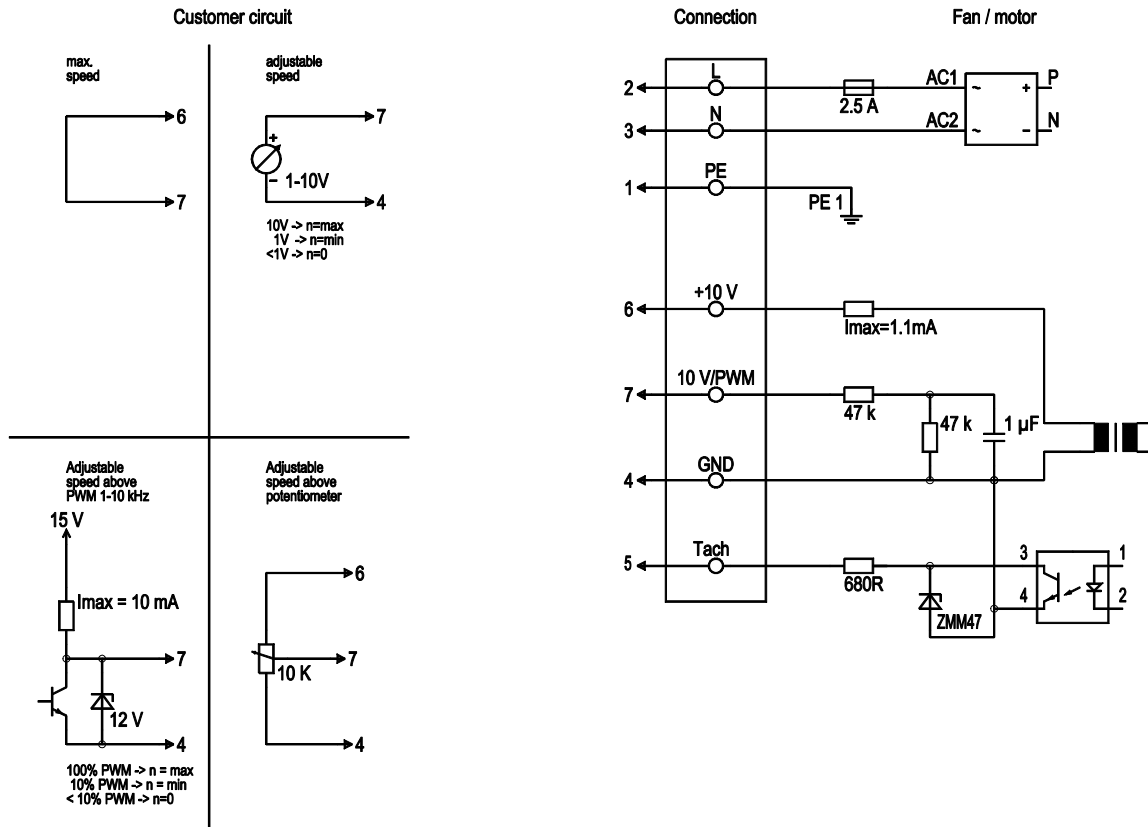
Size	190 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	Plastic PA6, fibreglass-reinforced
Housing material	Plastic PA6, fibreglass-reinforced
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
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	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected motor
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC harmonics	Acc. to EN 61000-3-2/3
Leakage current	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

Product drawing



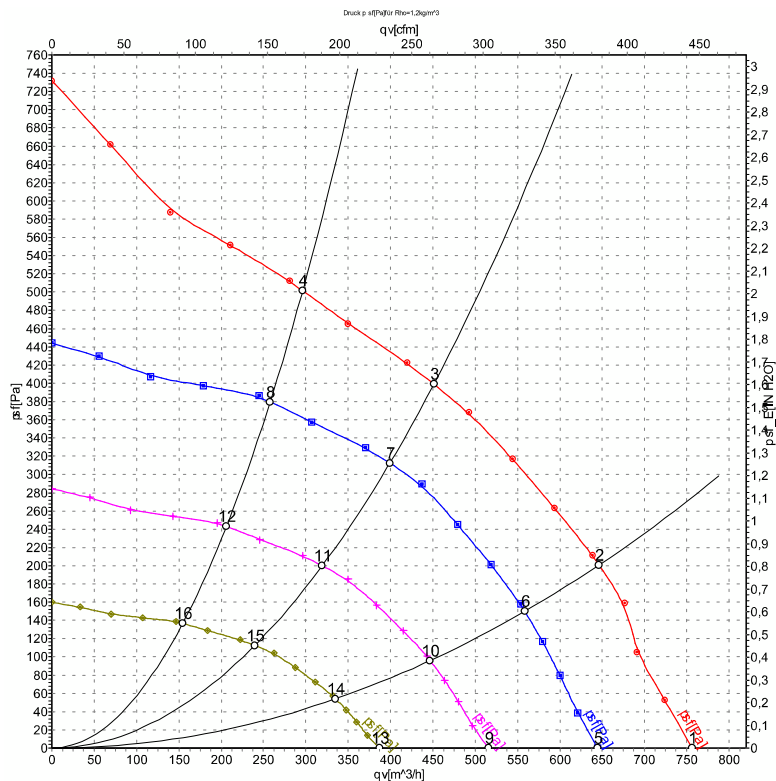
- | | |
|---|---|
| 1 | Connection line PVC 3 x 0.5 mm ² ; 3 x brass lead tips crimped |
| 2 | Control line PVC 4 x 0.25 mm ² , 4x brass lead tips crimped |

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	Tacho	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-122253

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	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	P _{sf}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	230	50	3520	88	0.63	70	77	755	0
2	230	50	3470	93	0.67	63	70	645	200
3	230	50	3375	96	0.80	58	66	450	400
4	230	50	3445	94	0.68	63	72	295	500
5	230	50	3000	55	0.39	66	73	645	0
6	230	50	3000	60	0.43	59	67	560	150
7	230	50	3000	68	0.49	55	63	400	312
8	230	50	3000	62	0.45	60	69	260	380
9	230	50	2400	28	0.20	62	68	515	0
10	230	50	2400	31	0.22	55	62	445	96
11	230	50	2400	35	0.25	50	58	320	200
12	230	50	2400	32	0.23	55	64	205	244
13	230	50	1800	12	0.08	55	62	385	0
14	230	50	1800	13	0.09	48	56	335	54
15	230	50	1800	15	0.11	44	52	240	112
16	230	50	1800	13	0.10	49	57	155	137