

backward curved

with housing

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Nominal data

Type	K3G175-RC05-03	
Motor	M3G055-BI	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	3740
Power input	W	85
Current draw	A	0.80
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

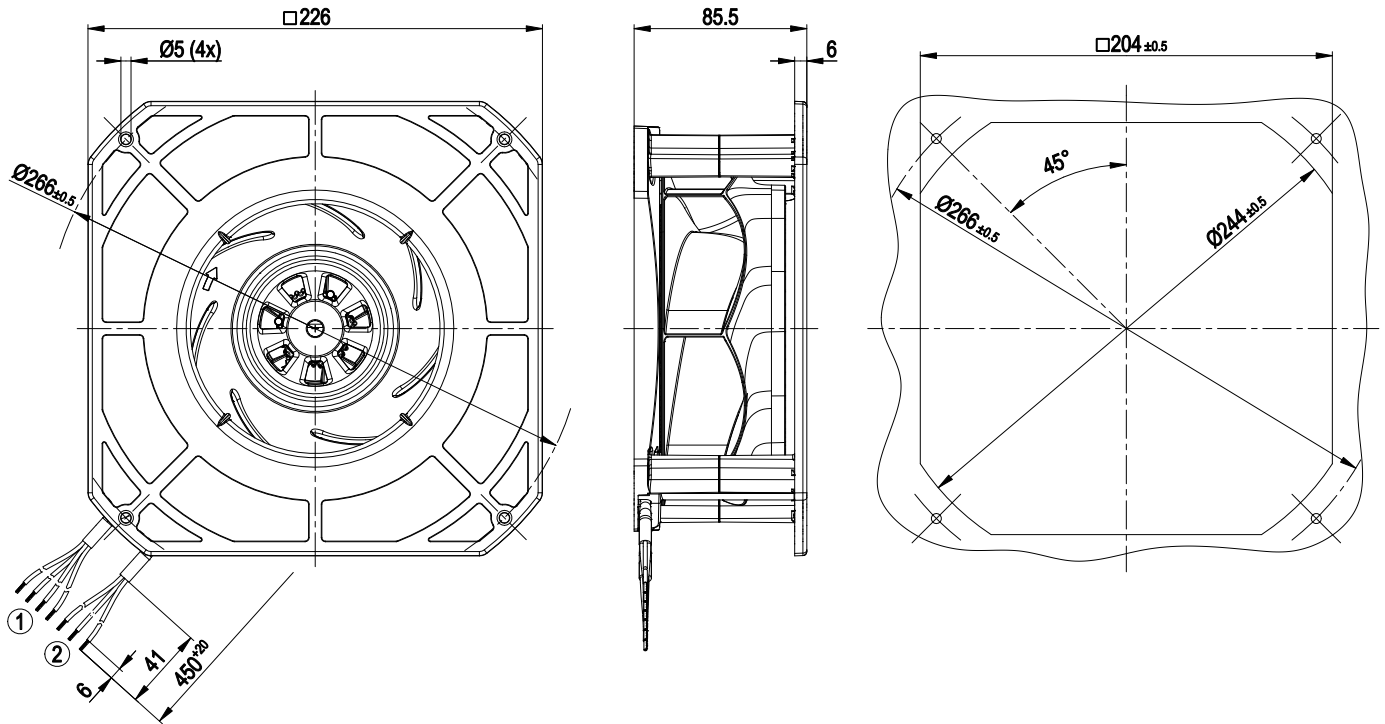


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Technical features

Mass	1.4 kg
Size	175 mm
Surface of rotor	Thick layer passivated
Material of impeller	PA plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
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"> - Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM
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	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	CE
Approval	CSA C22.2 Nr.77; UL 2111

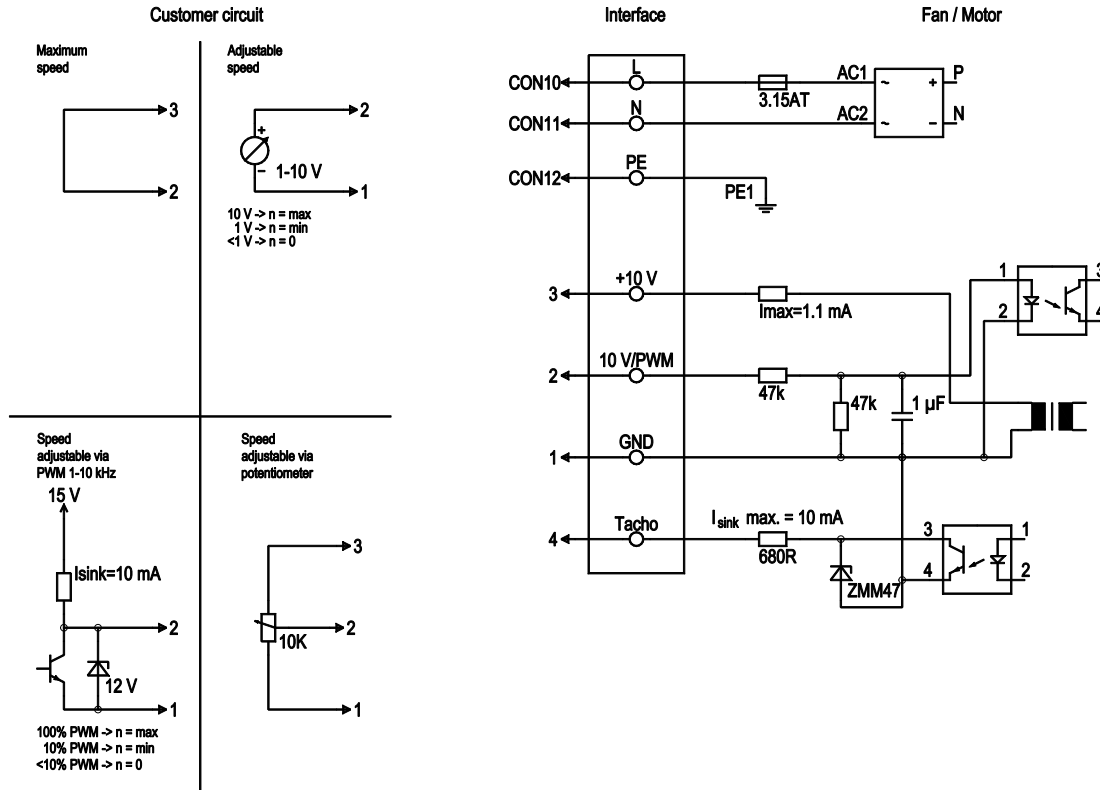
Product drawing



- | | |
|---|---|
| 1 | Connection line PVC AWG22, 4x lead tips crimped |
| 2 | Connection line PVC AWG20, 3x lead tips crimped |

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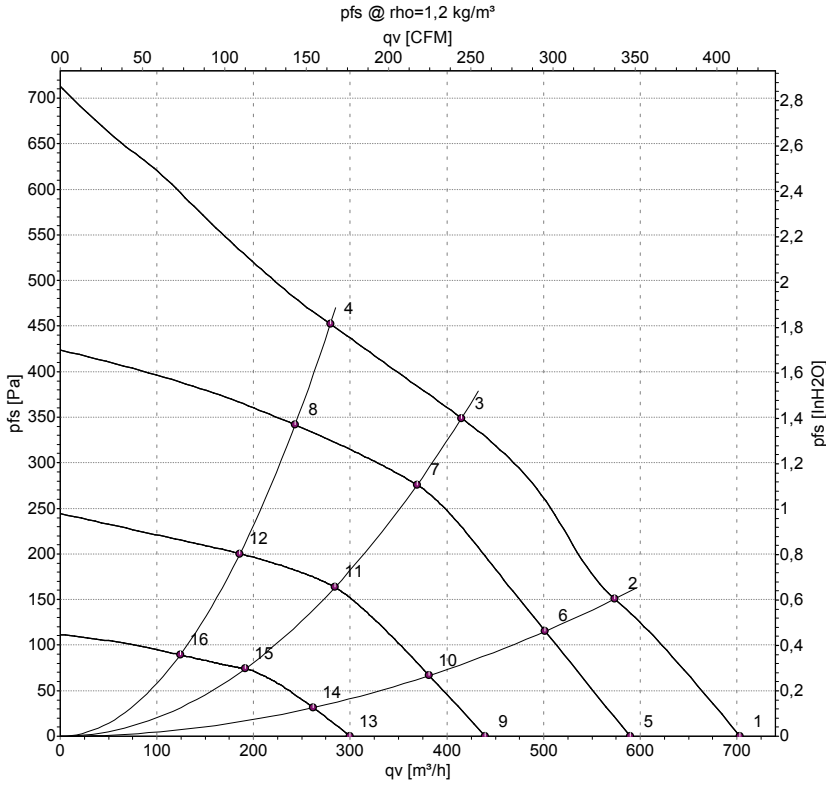
Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, for voltage range refer to rating plate
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND - Connection for control interface
	2	0- 10V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	3	10V/ max 1.1mA	red	Voltage output 10 V / 1.1 mA, electrically isolated, not short-circuit-proof
	4	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated, Isink max = 10 mA



Charts: Air flow 50 Hz



Measurement: LU-155217
Measurement: LU-159483
Measurement: LU-159485
Measurement: LU-159487

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	4050	85	0.80	70	77	705	0
2	230	50	3820	85	0.80	65	72	575	150
3	230	50	3740	85	0.80	59	67	415	350
4	230	50	3800	85	0.80	61	69	280	450
5	230	50	3395	49	0.47	64	73	590	0
6	230	50	3330	54	0.50	61	68	500	115
7	230	50	3295	55	0.51	55	63	370	276
8	230	50	3345	52	0.50	56	65	245	342
9	230	50	2530	22	0.25	59	66	440	0
10	230	50	2505	24	0.24	53	61	380	67
11	230	50	2505	25	0.25	48	56	285	163
12	230	50	2525	24	0.25	50	58	185	201
13	230	50	1725	9.0	0.11	49	58	300	0
14	230	50	1710	9.0	0.12	43	52	260	32
15	230	50	1680	9.0	0.11	38	46	190	74
16	230	50	1680	9.0	0.11	40	48	125	89

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

