

K3G250-RD43-03

EC centrifugal module - RadiCal®

backward curved
with housing



K3G250-RD43-03 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	K3G250-RD43-03	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	1955
Power input	W	80
Current draw	A	0.7
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+60

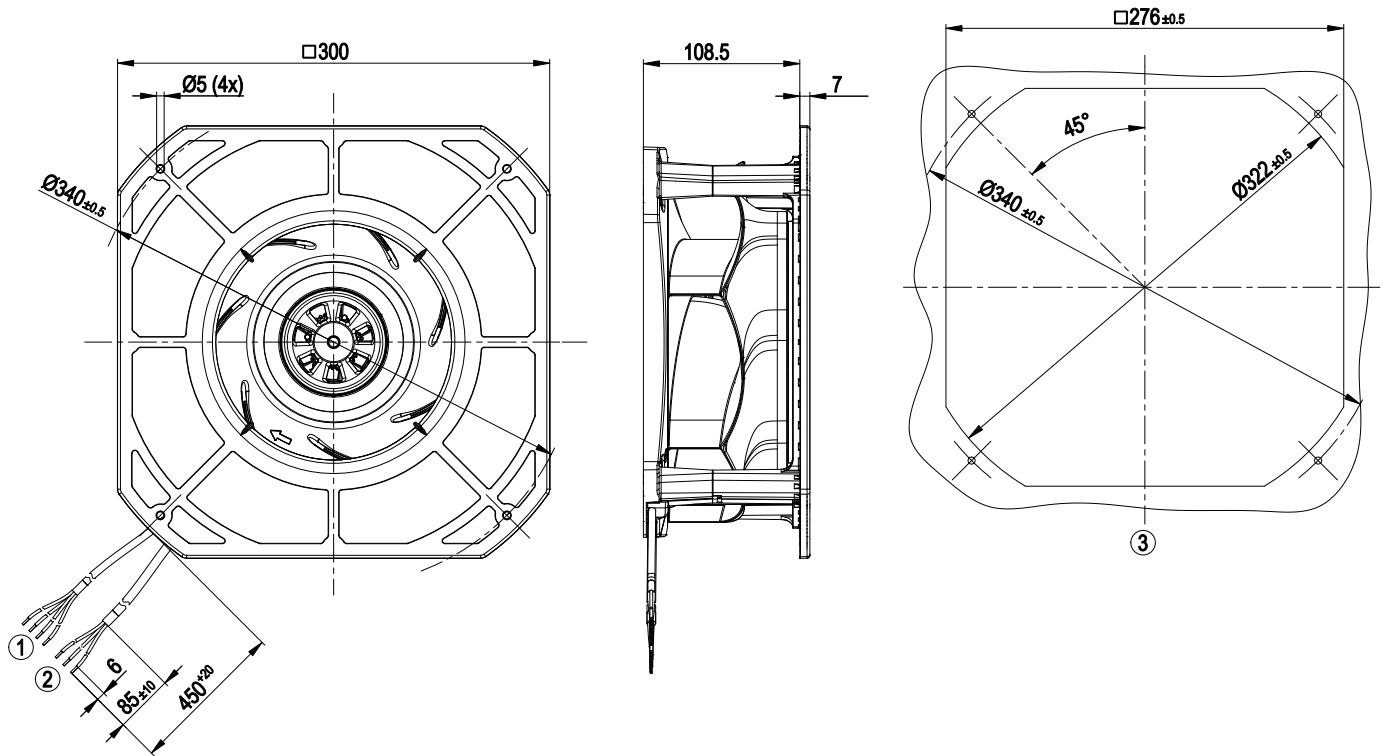
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



Technical features

Mass	2.3 kg
Size	250 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	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 - Control interface with SELV potential safely disconnected from the mains - Over-temperature protected electronics / motor
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 55022 (Class B, household environment), on account of the installation conditions, ferritic damping in the connection line may be required for the application.
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	EN 60335-1
Approval	CCC

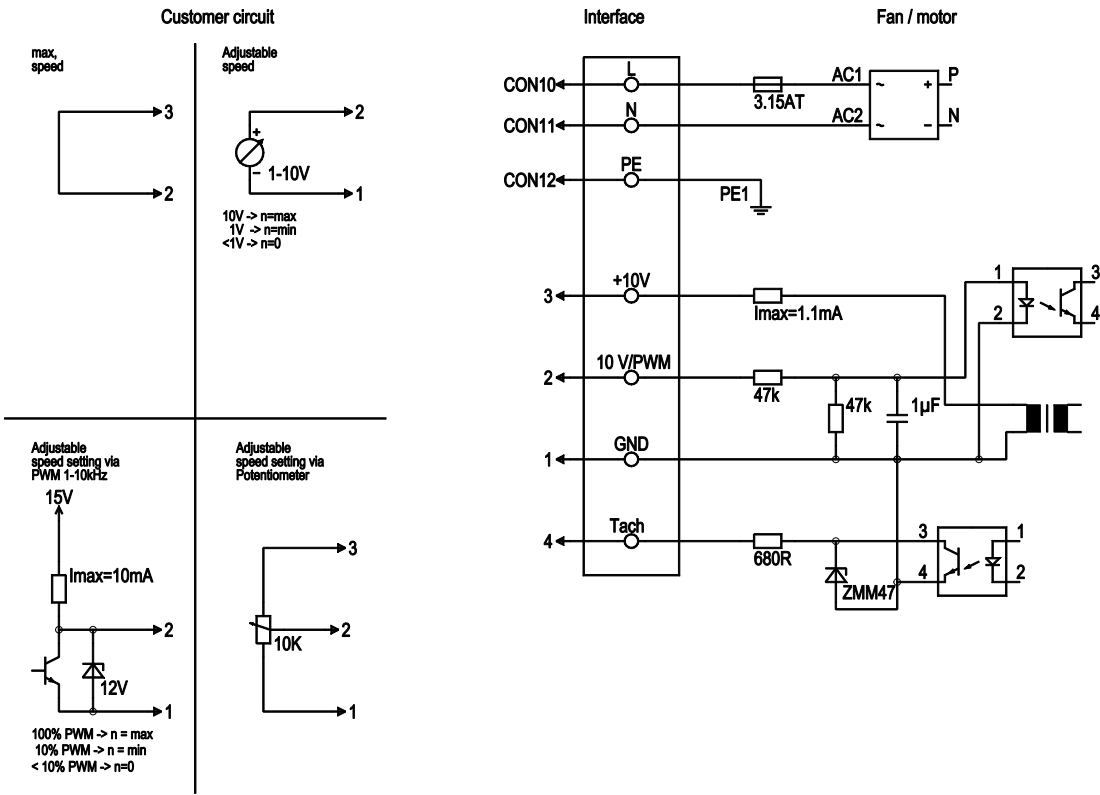
Product drawing



1	Connection line PVC 4X AWG22, 4x brass lead tips crimped
2	Connection line PVC 3G AWG20, 3x brass lead tips crimped
3	Mounting dimensions

backward curved
with housing

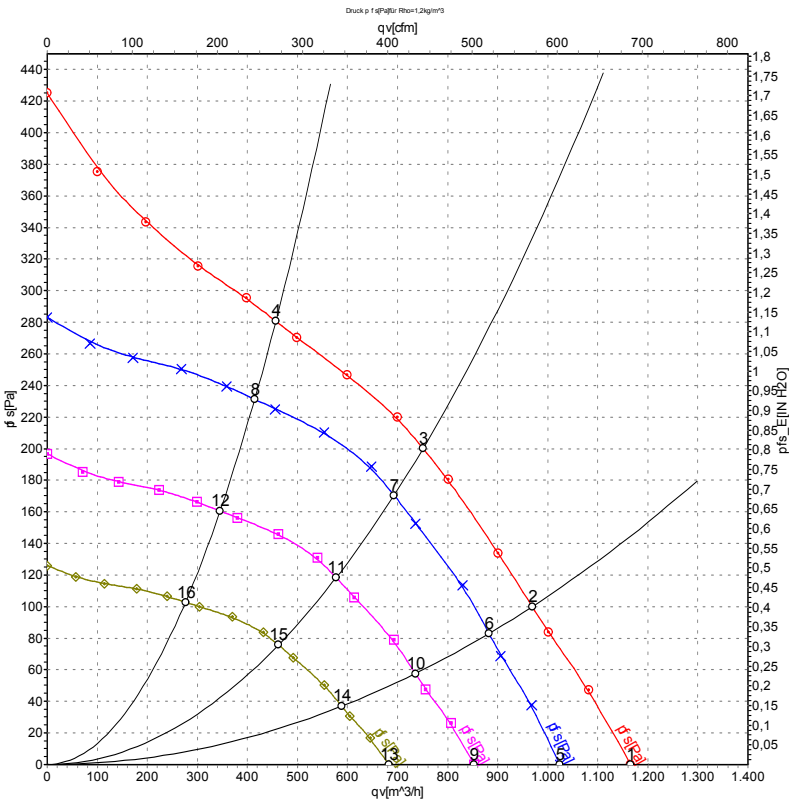
Connection screen



Line	No.	Signal	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 10V/ 1.1mA, electrically isolated, not short-circuit-proof.
	4	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated



Charts: Air flow 50 Hz



Measurement: LU-131208

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 _{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	2050	70	0.60	61	69	1165	0
2	230	50	1975	80	0.68	58	66	970	100
3	230	50	1955	80	0.70	53	61	750	200
4	230	50	1985	79	0.66	57	65	455	280
5	230	50	1800	47	0.41	58	66	1025	0
6	230	50	1800	61	0.51	56	64	885	83
7	230	50	1800	65	0.53	51	60	695	170
8	230	50	1800	59	0.49	55	63	415	231
9	230	50	1500	27	0.24	54	62	855	0
10	230	50	1500	35	0.30	52	60	735	58
11	230	50	1500	38	0.31	47	56	580	118
12	230	50	1500	34	0.28	51	59	345	161
13	230	50	1200	14	0.12	49	58	680	0
14	230	50	1200	18	0.15	47	55	590	37
15	230	50	1200	19	0.16	43	51	460	76
16	230	50	1200	18	0.15	46	54	275	103

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

