K1G250-RG04-11

EC centrifugal module - RadiCal

backward-curved, single-intake

with housing

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Nominal data

Type	**K1G250-RG04-11**
Motor	**M1G055-DF**

Nominal voltage	VAC	0	0	0
DC-link voltage	V	400	400	400
Method of obtaining data		ml	ml	ml
External electronics		61791-1-1320	61791-1-1320	61791-1-1320
Speed (rpm)	min^{-1}	2550	2220	2400
Power consumption	W	165	130	163
Current draw	A	0.9 (230V)	0.77 (230V)	0.9 (230V)
Min. ambient temperature	°C	-20	-20	-20
Max. ambient temperature	°C	50	60	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Connection condition: inverter operated

Operation only with external electronics CCC180AA0101

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Technical description

Weight	2.5 kg
Size	250 mm
Motor size	55
Rotor surface	Thick-film passivated
Impeller material	PA plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Connector with cable
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	UL 507; CSA C22.2 No. 113

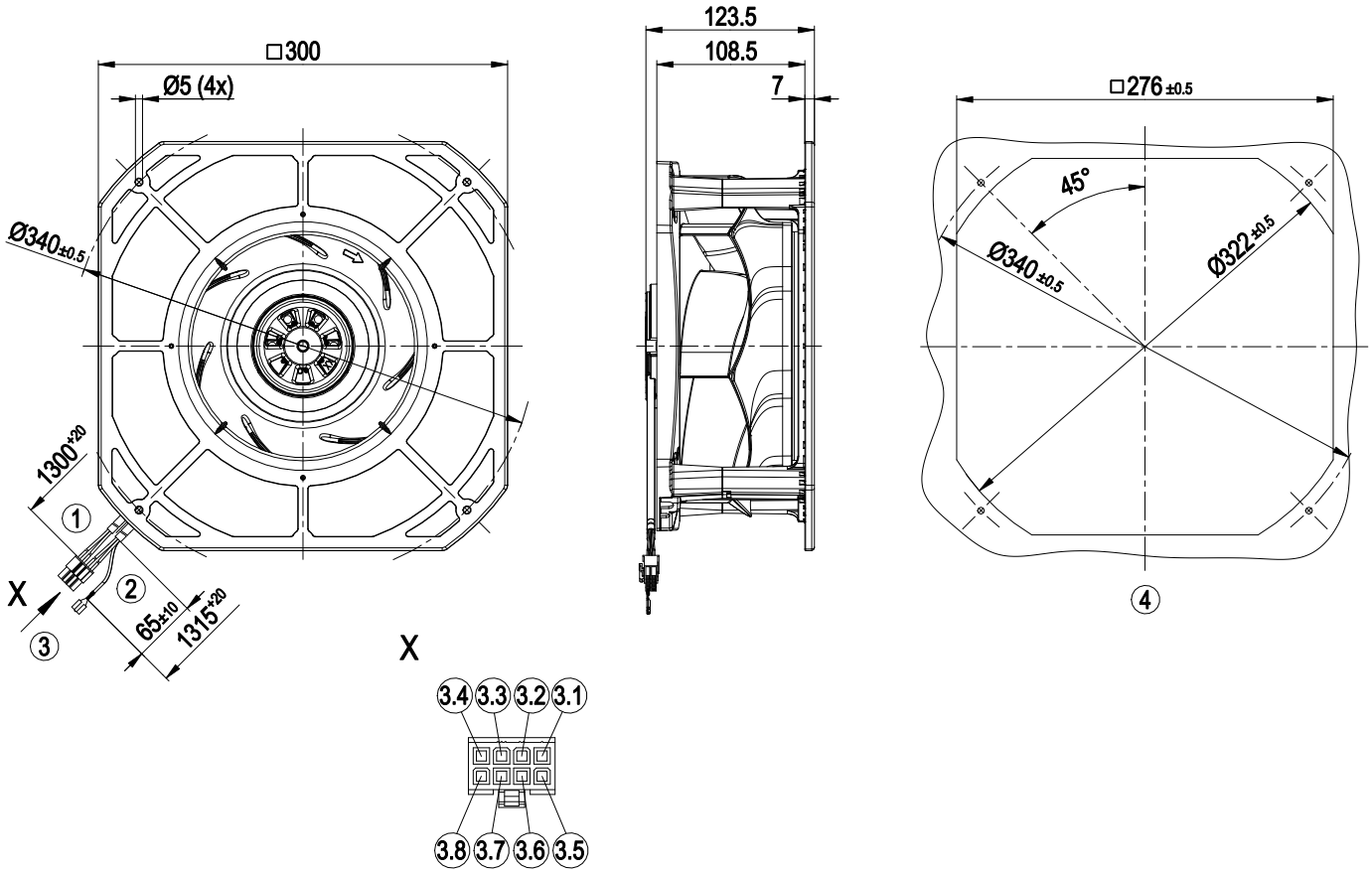
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Product drawing



1	Cable PVC AWG22
	4x socket TE 794958-1
2	Cable PFA AWG20
	2x socket TE 794956-1
	1x flat push-on receptacle 6.3x0.8 (PE)
3	8-pole connector housing TE 1586765-8
3.1	not used
3.2	not used
3.3	Contact 1 (red)
3.4	Contact 2 (yellow)
3.5	Contact 3 (blue)
3.6	Contact 4 (brown)
3.7	Contact 5 (blue)
3.8	Contact 6 (white)
4	Mounting dimensions

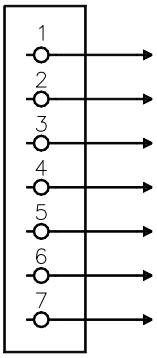
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1			red	Contact 1
2			yellow	Contact 2
3			blue	Contact 3
4			brown	Contact 4
5			blue	Contact 5
6			white	Contact 6
7			green/yellow	PE

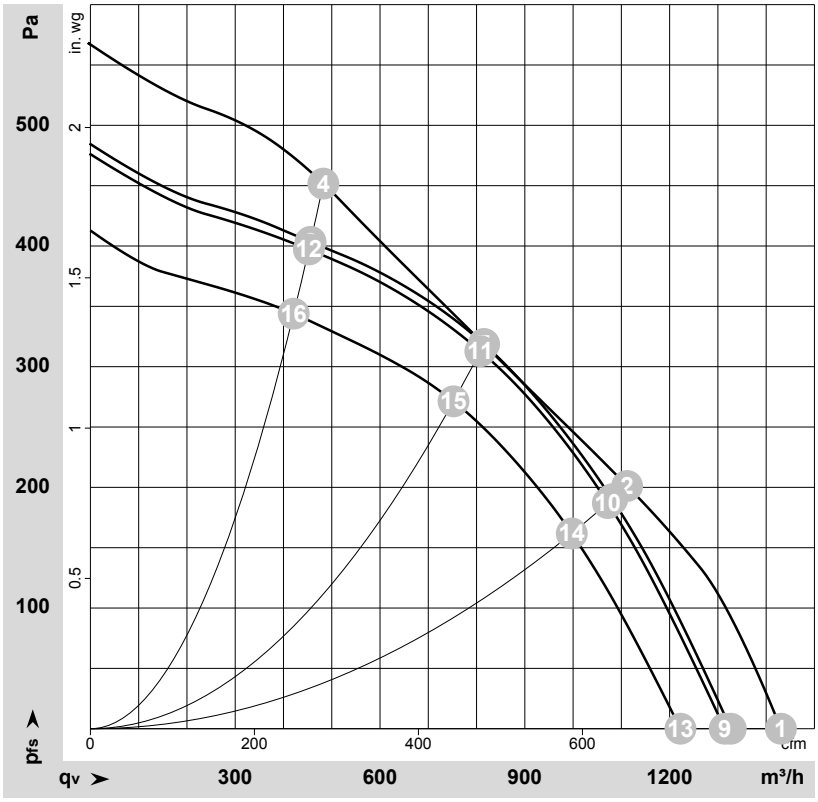
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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-194064-1
Measurement: LU-194063-1
Measurement: LU-194062-1
Measurement: LU-193663-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	1~	230	50	2550	133	0.79	1430	0	840	0.00
2	1~	230	50	2465	165	0.90	1110	200	655	0.80
3	1~	230	50	2410	165	0.90	815	320	480	1.28
4	1~	230	50	2535	165	0.90	485	450	285	1.81
5	1~	230	50	2400	106	0.70	1325	0	780	0.00
6	1~	230	50	2400	150	0.85	1080	192	635	0.77
7	1~	230	50	2400	163	0.90	815	319	480	1.28
8	1~	230	50	2400	138	0.80	455	403	270	1.62
9	1~	230	50	2380	104	0.69	1315	0	775	0.00
10	1~	230	50	2380	145	0.83	1070	189	630	0.76
11	1~	230	50	2380	158	0.87	810	313	475	1.26
12	1~	230	50	2380	134	0.79	455	398	265	1.60
13	1~	230	50	2220	86	0.64	1220	0	720	0.00
14	1~	230	50	2220	118	0.74	995	164	585	0.66
15	1~	230	50	2220	130	0.77	750	271	445	1.09
16	1~	230	50	2220	108	0.71	420	344	250	1.38

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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