R3G225-RD05-11

EC centrifugal fan - RadiCal

backward curved, single inlet

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Nominal data

Type	**R3G225-RD05-11**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	2200
Power input	W	82
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

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Technical features

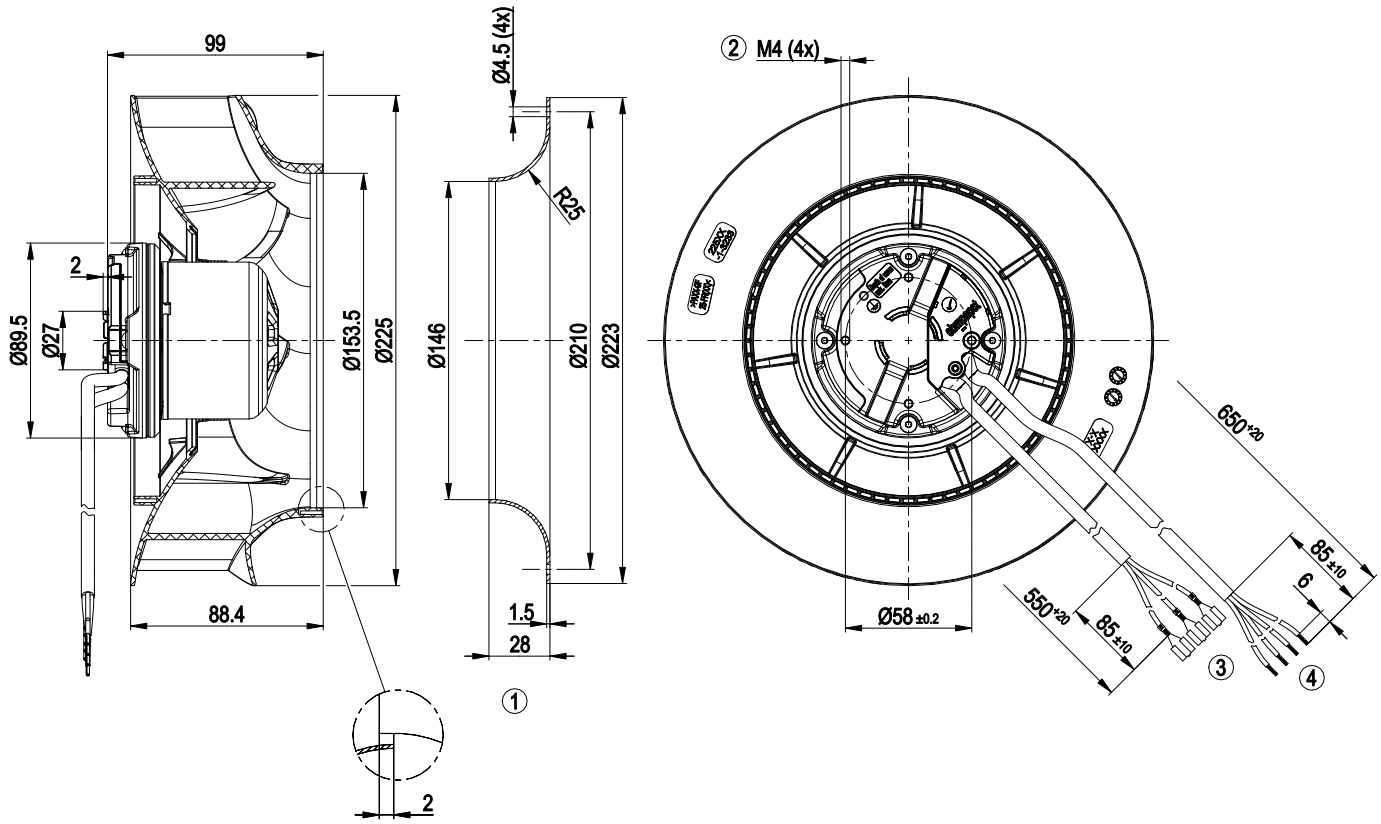
Mass	1.4 kg
Size	225 mm
Material of electronics housing	Die-cast aluminium
Material of impeller	PA plastic, galvanised round sheet-metal plate
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ 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 - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Over-temperature protected electronics / motor - Line undervoltage detection
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; CE
Approval	VDE

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Product drawing



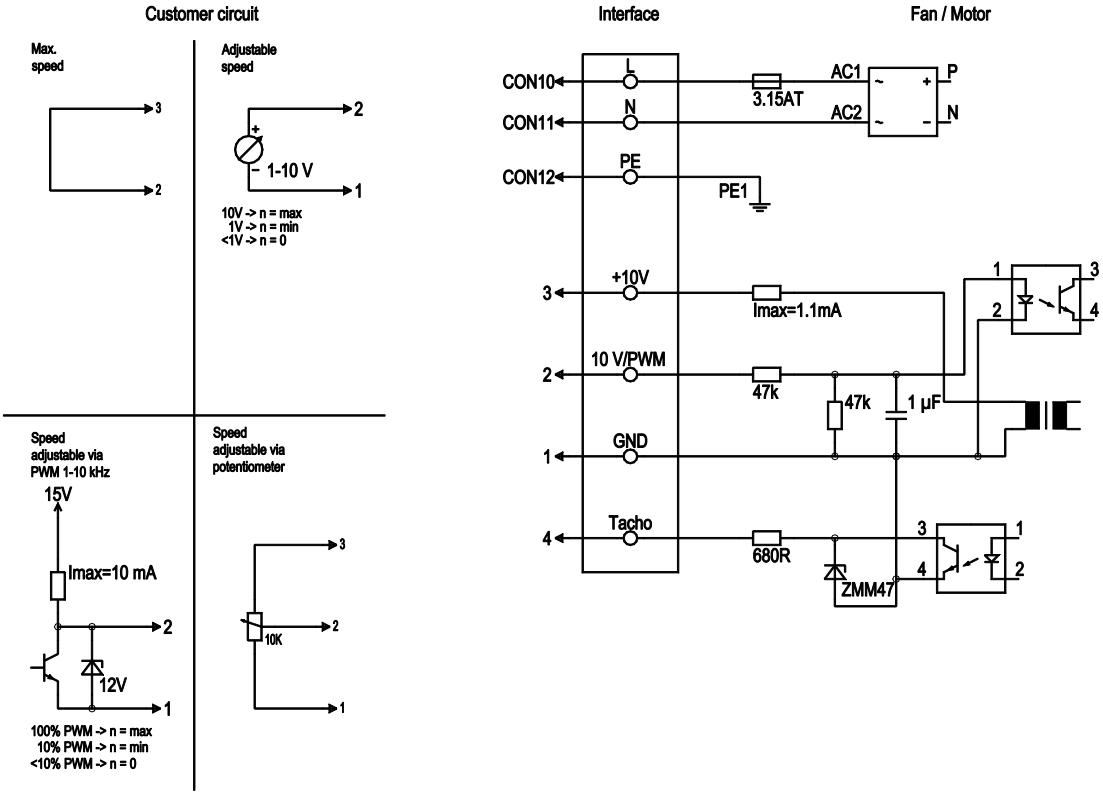
1	Accessory part: Inlet nozzle 96358-2-4013 not included in scope of delivery
2	Thread reach max. 5 mm
3	Connection line PVC AWG20, 3x threaded pin 6.3x0.8 crimped
4	Connection line PVC AWG22, 4x lead tips crimped

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Connection screen



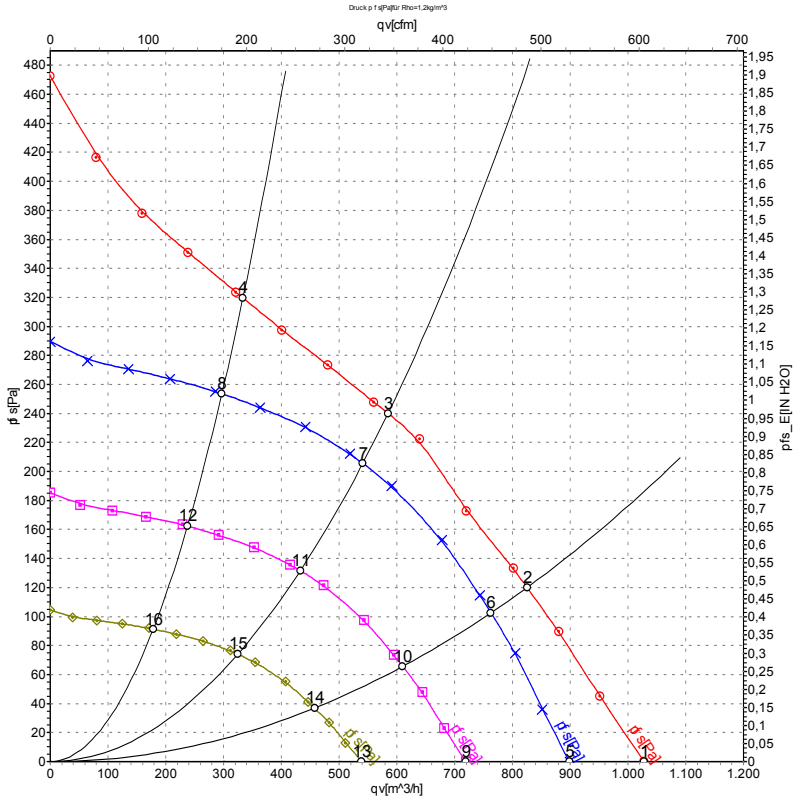
No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection for control interface
	2	0-10V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	3	10 V / max. 1,1 mA	red	Voltage output 10 VDC 1.1 mA, electrically isolated, short-circuit-proof
	4	Tacho	white	Tach output: Open collector, 1 pulse per revolution, electrically isolated

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Charts: Air flow 50 Hz



Measurement: LU-128059-1

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}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	inH2O
1	230	50	2285	70	0.62	62	69	1030	0	605	0.00
2	230	50	2165	77	0.66	57	64	825	120	485	0.48
3	230	50	2200	82	0.70	52	60	585	240	345	0.96
4	230	50	2245	72	0.61	59	67	335	320	195	1.28
5	230	50	2000	47	0.41	59	66	900	0	530	0.00
6	230	50	2000	62	0.52	55	63	765	102	450	0.41
7	230	50	2000	62	0.52	51	58	540	206	320	0.83
8	230	50	2000	51	0.44	56	65	295	254	175	1.02
9	230	50	1600	24	0.21	54	62	720	0	425	0.00
10	230	50	1600	32	0.27	50	58	610	66	360	0.26
11	230	50	1600	32	0.27	46	54	435	132	255	0.53
12	230	50	1600	26	0.22	51	60	240	162	140	0.65
13	230	50	1200	10	0.09	48	55	540	0	315	0.00
14	230	50	1200	13	0.11	44	52	460	37	270	0.15
15	230	50	1200	13	0.11	39	47	325	74	190	0.30
16	230	50	1200	11	0.09	45	53	180	91	105	0.37

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_V = Air flow
p_{fs} = Pressure increase

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