EC centrifugal fan - RadiCal®

backward curved

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Nominal data

Type	**R3G225-RH17-11**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230V
Frequency	Hz	50/60
Type of data definition		fa
Speed	min^{-1}	2200
Power input	W	60
Current draw	A	0.42
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

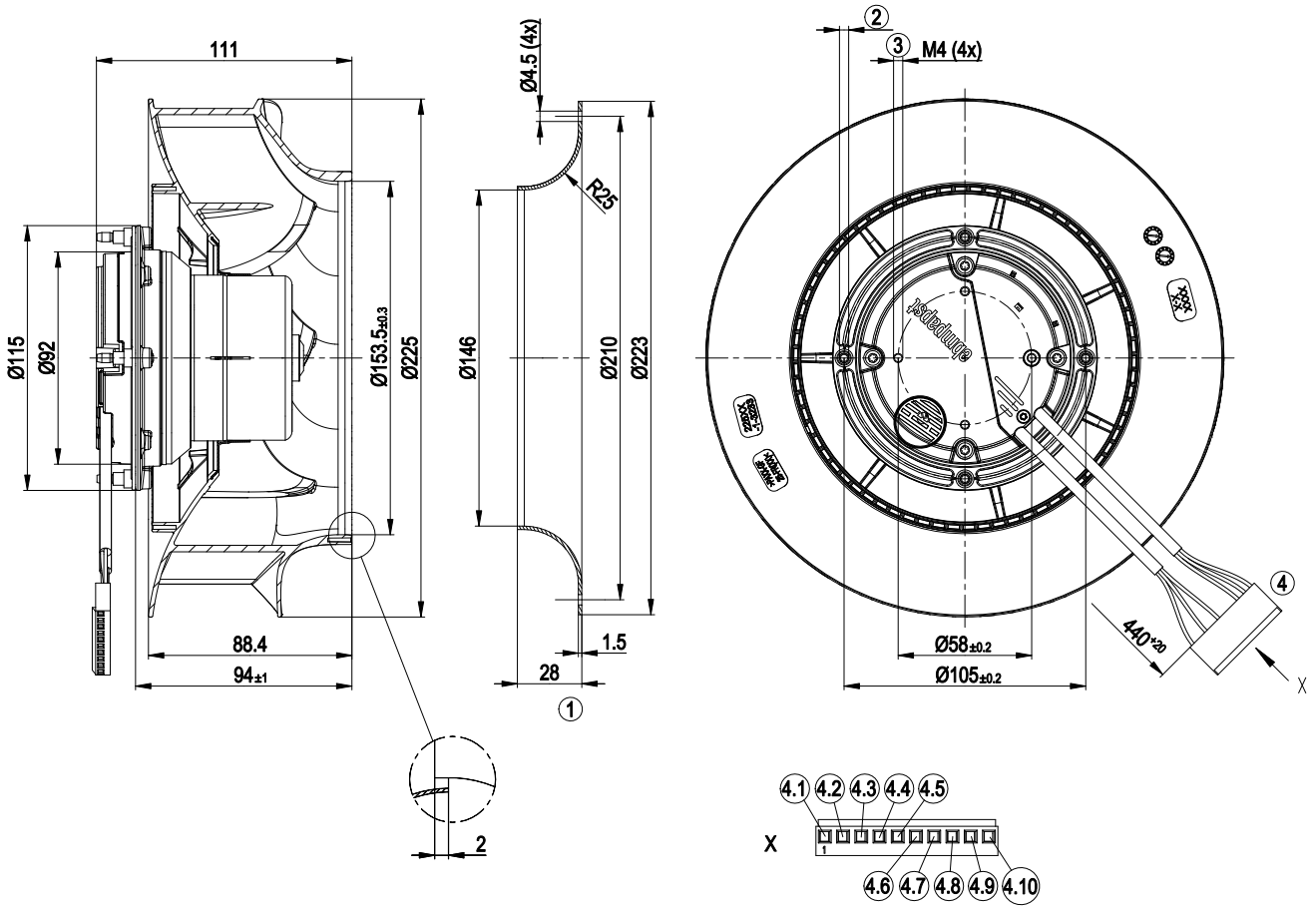
Mass	1.5 kg
Size	225 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	PA plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limit - Soft start - PWM control input
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
Electrical leads	With plug
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Approval	UL 2111; CSA C22.2 Nr.77

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Product drawing



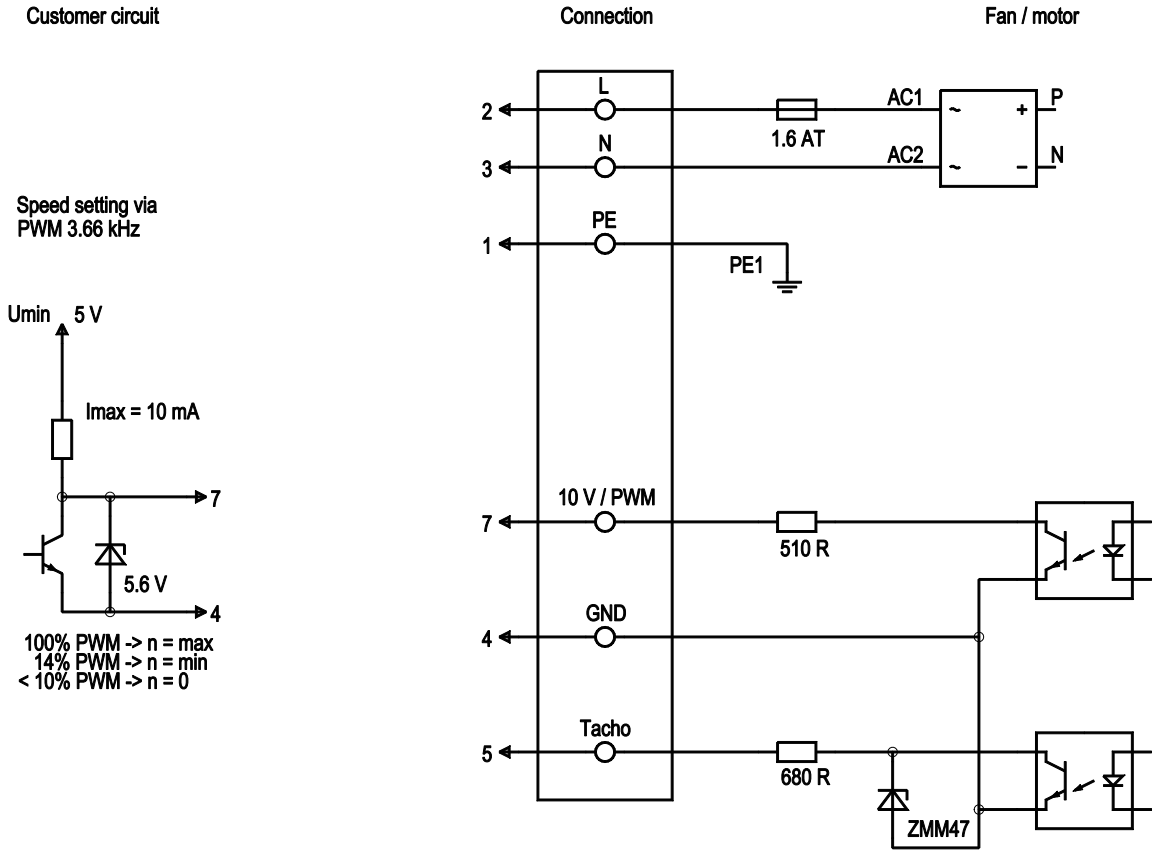
1	Accessory part: Inlet nozzle 96358-2-4013 not included in scope of delivery
2	Thread on threaded pin: 10-24 UNC
3	Depth of screw max. 5 mm
4	Connection line PVC with Molex connector housing 09-93-1000 with 6x plug pin 08-50-0105
4.1	PE (green/yellow)
4.2	not used
4.3	L (brown)
4.4	not used
4.5	N (blue)
4.6	not used
4.7	not used
4.8	Control input (yellow)
4.9	Tach (white)
4.10	GND (blue)

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Connection screen



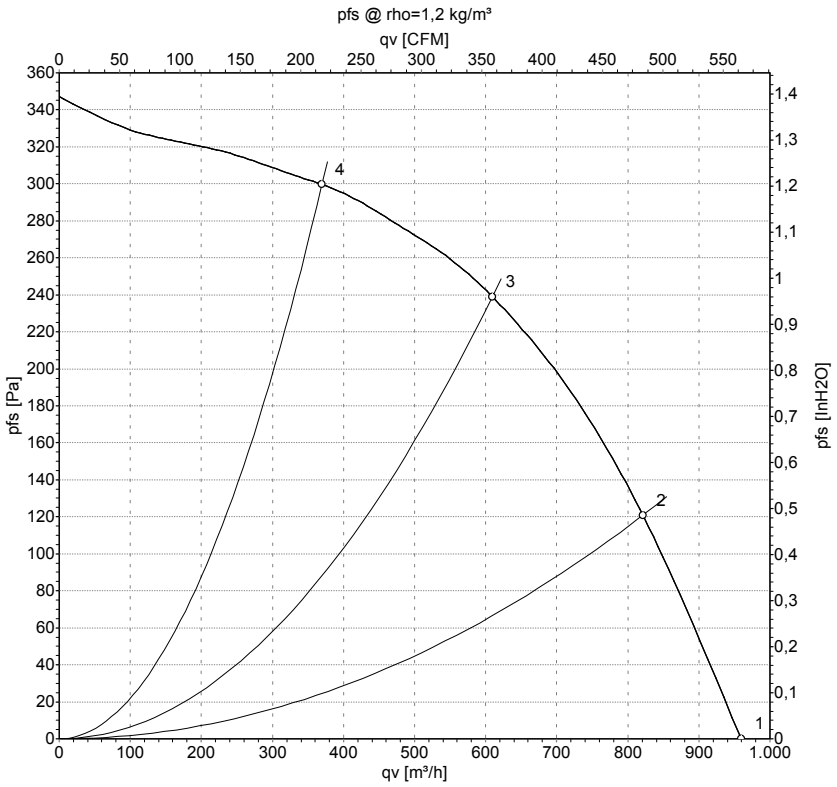
No.	Conn.	Designation	Colour	Function / assignment
	1	PE	green/yellow	Protective earth
	2	L	brown	Power supply 230 VAC, 50 - 60 Hz
	3	N	blue	Neutral conductor
	4	GND	blue	GND - Connection for control interface
	5	Tach	white	Tach output: Open Collector, 1 pulse per revolution, electrically isolated
	7	PWM	yellow	PWM control input, electrically isolated

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Charts: Air flow 50 Hz



Measurement: LU-144891

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	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	2200	60	0.42	960	0
2	230	50	2205	79	0.63	820	120
3	230	50	2200	81	0.64	610	240
4	230	50	2200	69	0.56	370	300

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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