

R3G225-AE11-02

EC centrifugal fan

backward curved, single inlet



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Nominal data

Type	R3G225-AE11-02	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	2290
Power input	W	95
Current draw	A	0.75
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



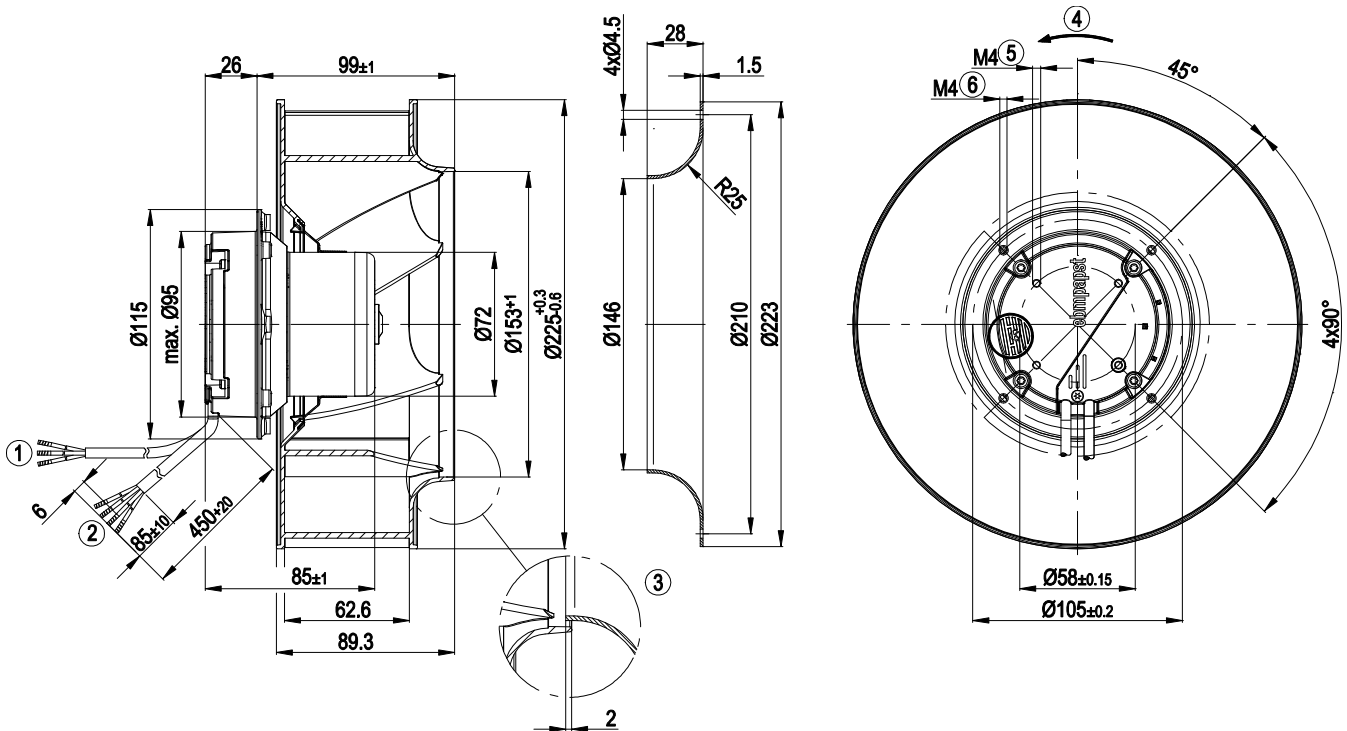
Technical features

Mass	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	- Output 10 VDC, max. 1.1 mA - Tach output - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overtemperature protection for 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 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC

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Product drawing

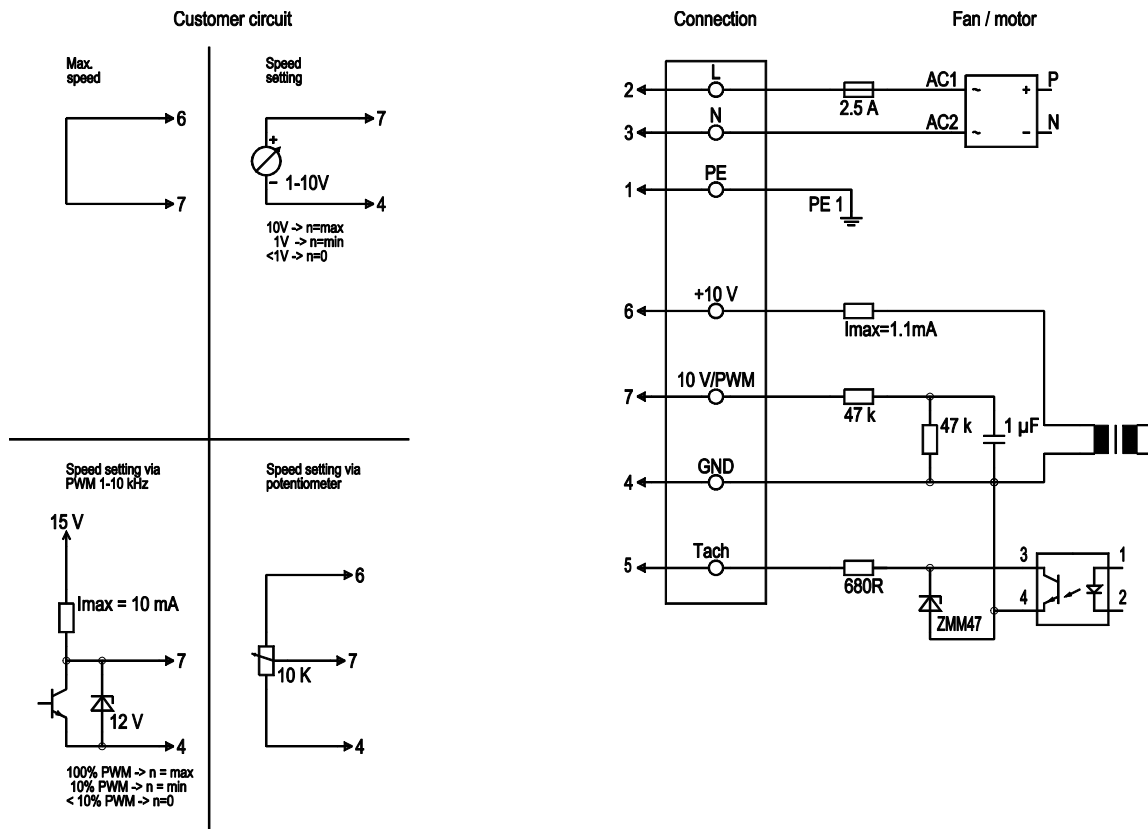


1	Connection line H03VV-F3G 0.5; 3 x brass lead tips crimped
2	Connection line A03VV-F4x0.25; 4 x brass lead tips crimped
3	Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery
4	Direction of rotation clockwise, seen on rotor
5	Screw depth max. 6 mm
6	Screw depth max. 6 mm

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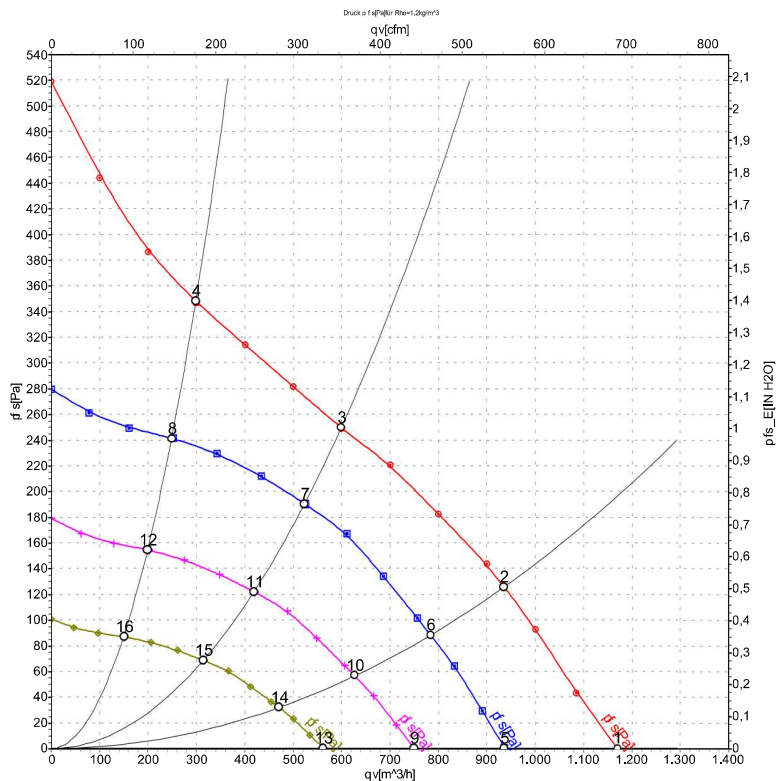
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Connection screen



Line	No.	Signal	Colour	Function / assignment
	2	L	brown	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	7	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	5	Tach	white	Tach output: Open Collector, 1 pulse per revolution, electrically isolated
	6	10V / max. 1.1 mA	red	Voltage output 10V / 1.1mA, electrically isolated, not short-circuit-proof
	4	GND	blue	GND - Connection for control interface

Charts: Air flow 50 Hz



Measurement: LU-77232

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	2495	80	0.60	1170	0
2	230	50	2390	87	0.67	935	125
3	230	50	2290	95	0.75	600	250
4	230	50	2400	85	0.66	300	350
5	230	50	2000	41	0.31	940	0
6	230	50	2000	51	0.39	785	88
7	230	50	2000	63	0.48	525	191
8	230	50	2000	49	0.38	250	242
9	230	50	1600	21	0.16	750	0
10	230	50	1600	26	0.20	625	56
11	230	50	1600	32	0.25	420	122
12	230	50	1600	25	0.20	200	155
13	230	50	1200	8.9	0.07	565	0
14	230	50	1200	11	0.08	470	32
15	230	50	1200	14	0.10	315	69
16	230	50	1200	11	0.08	150	87

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

