R3G225-AE11-23

EC centrifugal fan

backward curved



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Nominal data

Type	**R3G225-AE11-23**
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

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Technical features

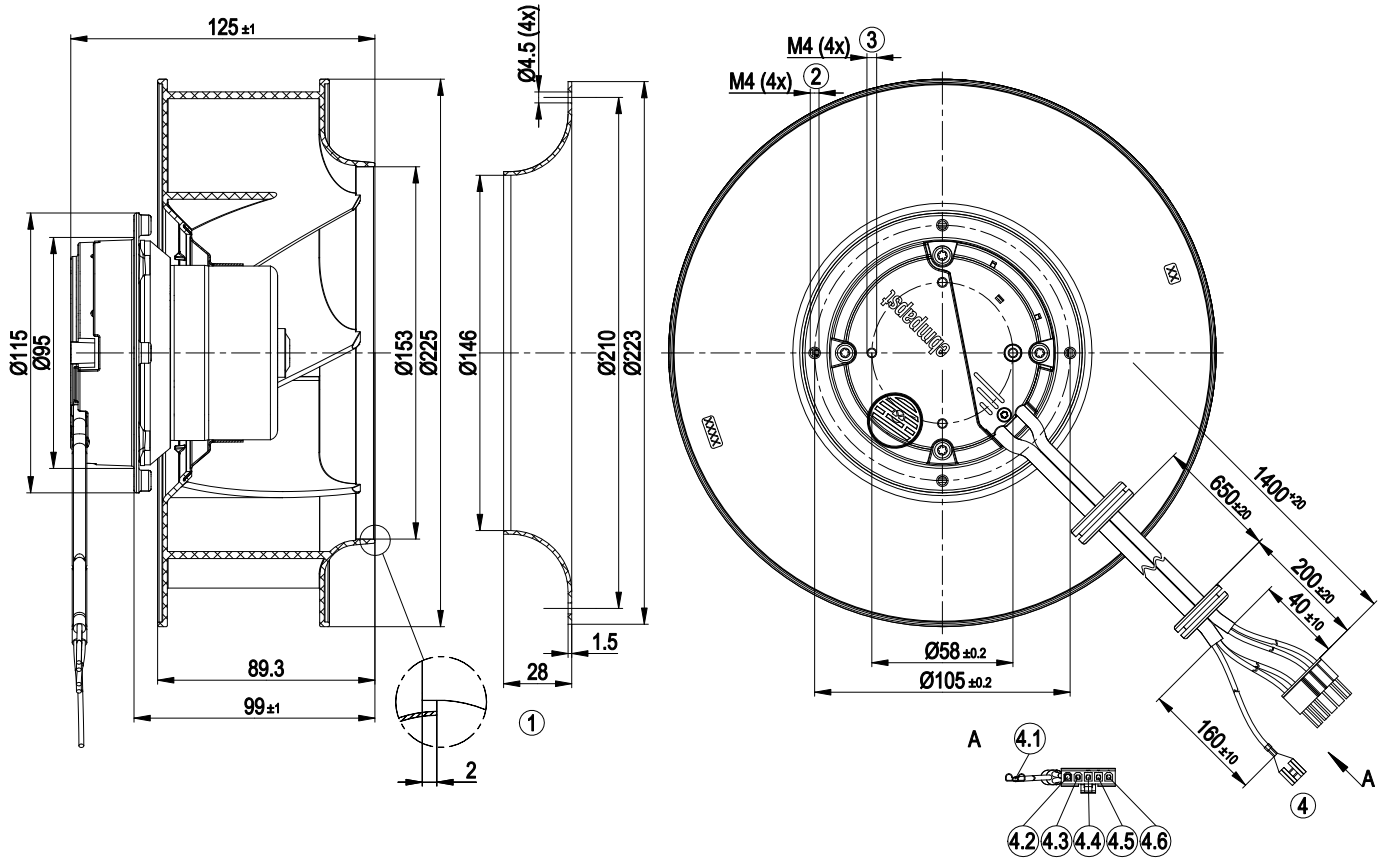
Mass	1.6 kg
Size	225 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	PA plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
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 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

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Product drawing



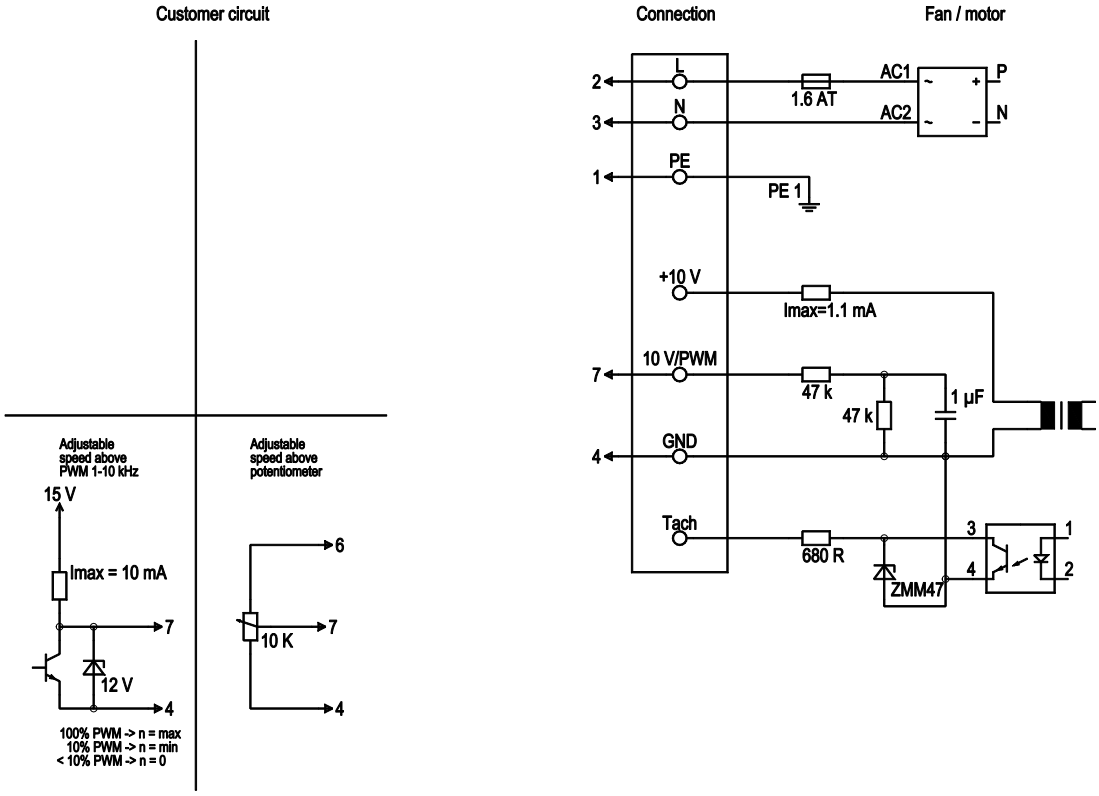
1	Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery
2	Depth of screw max. 6 mm
3	Depth of screw max. 6 mm
4	Connection line PVC 3G 0.5 mm²; 1x receptacle for tabs 6.3 x 0.8 and connector shell Stocko 705-005-003-960
4.1	PE (green/yellow)
4.2	N (brown)
4.3	L (blue)
4.4	Not assigned
4.5	GND (blue)
4.6	0-10V (yellow)

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Connection screen



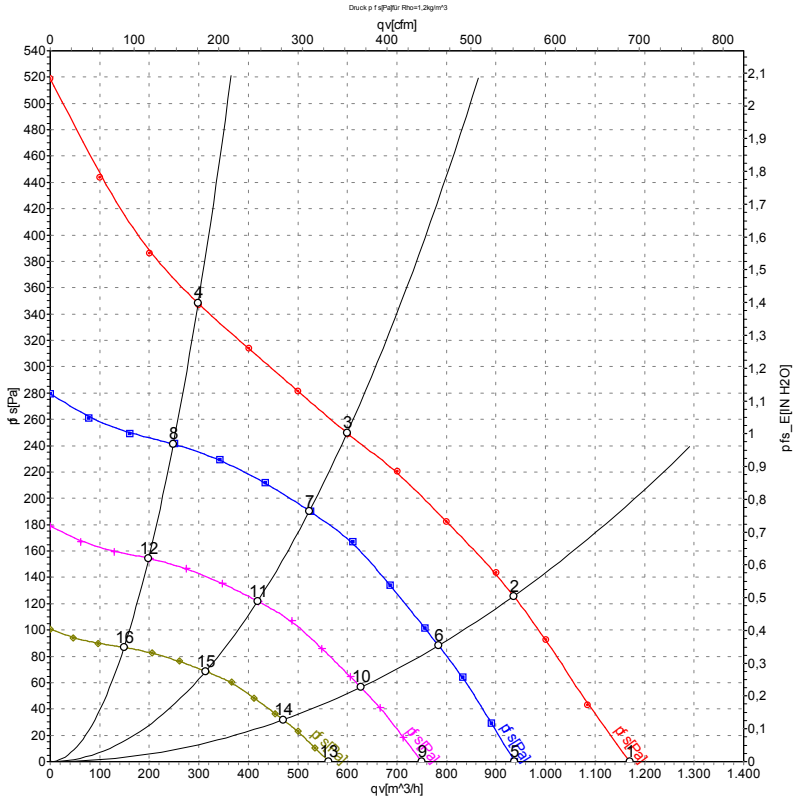
Line	No.	Signal	Colour	Function / assignment
	1	PE	green/yellow	Protective earth
	2	L	brown	Power supply 230 VAC, 50-60 Hz
	3	N	blue	Neutral conductor
	4	GND	blue	GND - Connection for control interface
	7	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated

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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

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