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Nominal data

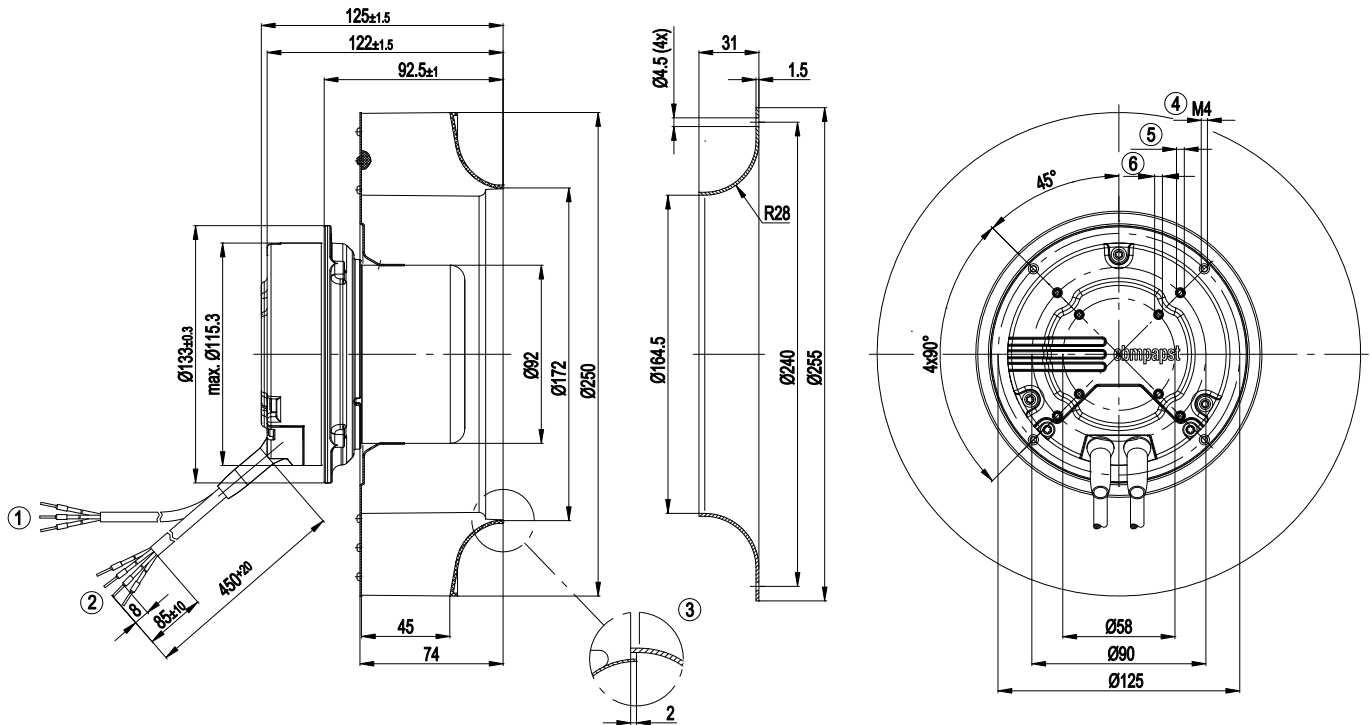
Type	R3G250-AH52-01	
Motor	M3G074-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	2600
Power input	W	160
Current draw	A	1.2
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
 Subject to alterations

Technical features

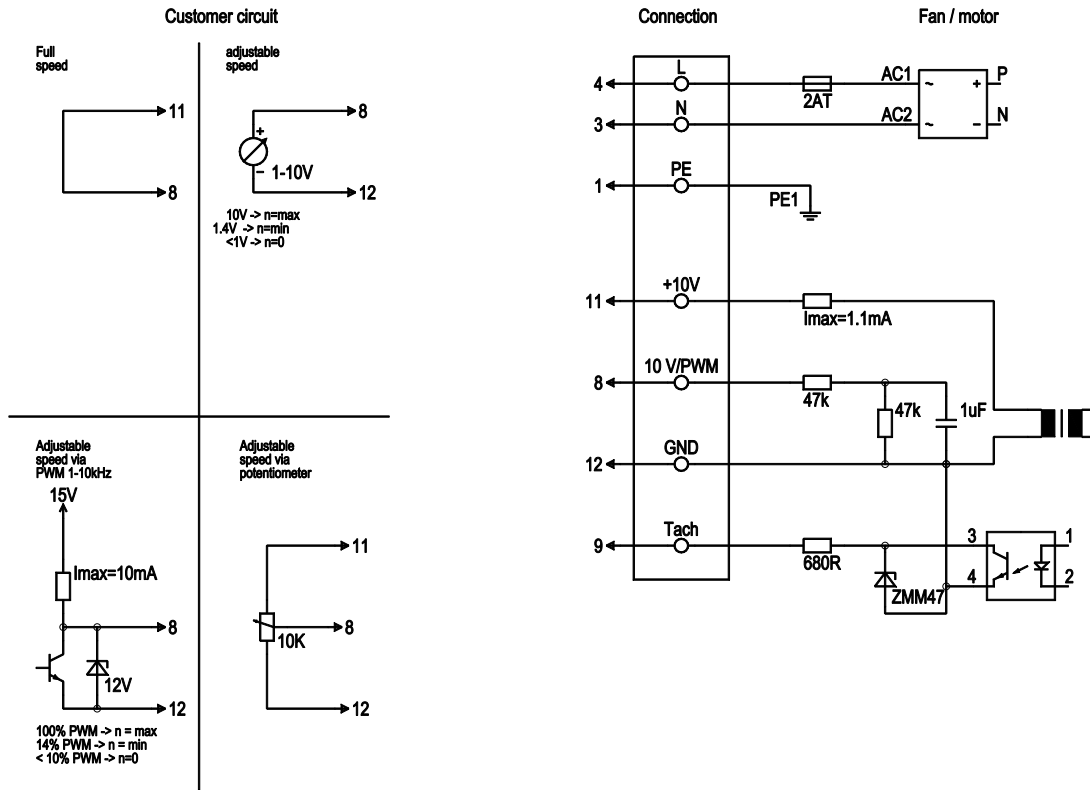
Leakage current	<= 3.5 mA
Size	250 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Humidity class	F3-1
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Motor bearing	Ball bearing
Mass	2.4 kg
Material of electronics housing	Die-cast aluminium
Material of impeller	Plastic PA66, fibreglass-reinforced
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	EN 60335-1; EN 60950-1; EN 61800-5-1
Surface of rotor	Thick layer passivated
Number of blades	11
Type of protection	IP 44; Depending on installation and position
Protection class	I
Technical features	<ul style="list-style-type: none"> - Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics / motor
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CSA C22.2 Nr.77; UL 2111

Product drawing



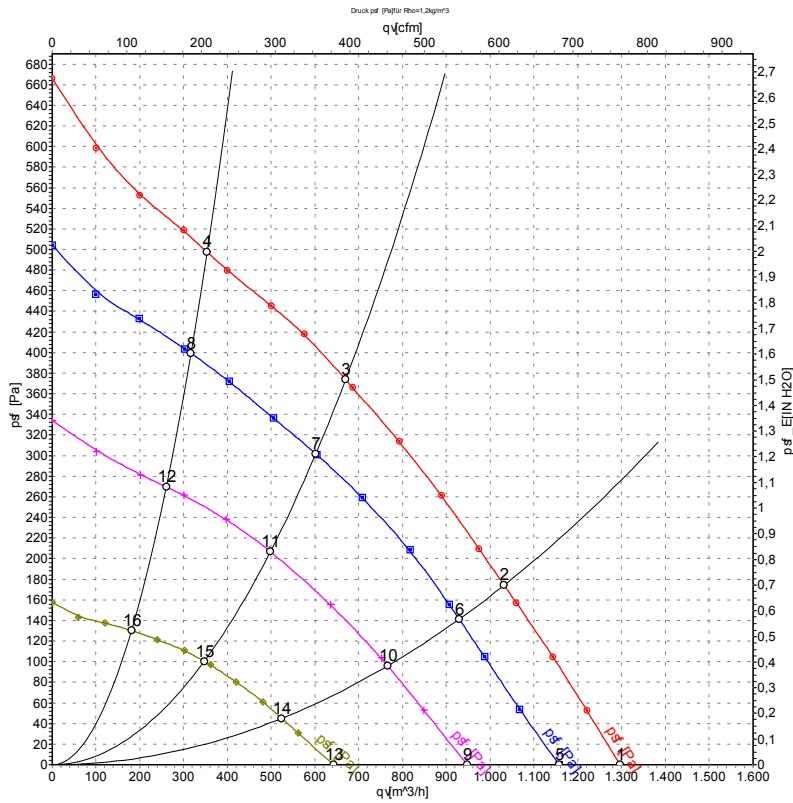
1	Connection line AWG18, 3 x crimped core-end sleeves
2	Connection line AWG22, 4 x crimped core-end sleeves
3	Accessory part: inlet nozzle 96359-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
4	Depth of screw 8 - 10 mm, tightening torque 2.5 ± 0.2 Nm; gluing the screws is recommended
5	Pilot hole prepared for self-tapping screw M4, depth of screw max. 6 mm
6	Pilot hole prepared for self-tapping screw M4, depth of screw max. 8 mm

Connection screen



Line	No.	Signal	Colour	Function / assignment
	4	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	8	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	9	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	11	10V / max 1.1 mA	red	Voltage output 10 V / max. 1.1 mA, electrically isolated
	12	GND	blue	GND - Connection for control interface

Charts: Air flow 50 Hz



Measurement: LU-74719
 Measurement: LU-67431
 Measurement: LU-67432
 Measurement: LU-67433

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 ₁	I	qv	P _{sf}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	50	2770	123	0.90	1295	0
2	230	50	2660	148	1.08	1030	175
3	230	50	2600	160	1.20	670	375
4	230	50	2680	147	1.08	355	500
5	230	50	2455	88	0.66	1155	0
6	230	50	2380	106	0.81	930	141
7	230	50	2335	116	0.87	600	302
8	230	50	2400	105	0.79	315	399
9	230	50	2000	53	0.40	945	0
10	230	50	1960	62	0.47	765	96
11	230	50	1935	69	0.51	500	208
12	230	50	1965	61	0.46	260	270
13	230	50	1380	22	0.17	640	0
14	230	50	1365	25	0.20	525	45
15	230	50	1350	28	0.22	345	100
16	230	50	1360	25	0.19	180	130