R3G140-AV17-40

EC centrifugal fan

forward curved



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Nominal data

Type	**R3G140-AV17-40**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		-
Speed	min^{-1}	2200
Power input	W	69
Current draw	A	0.55
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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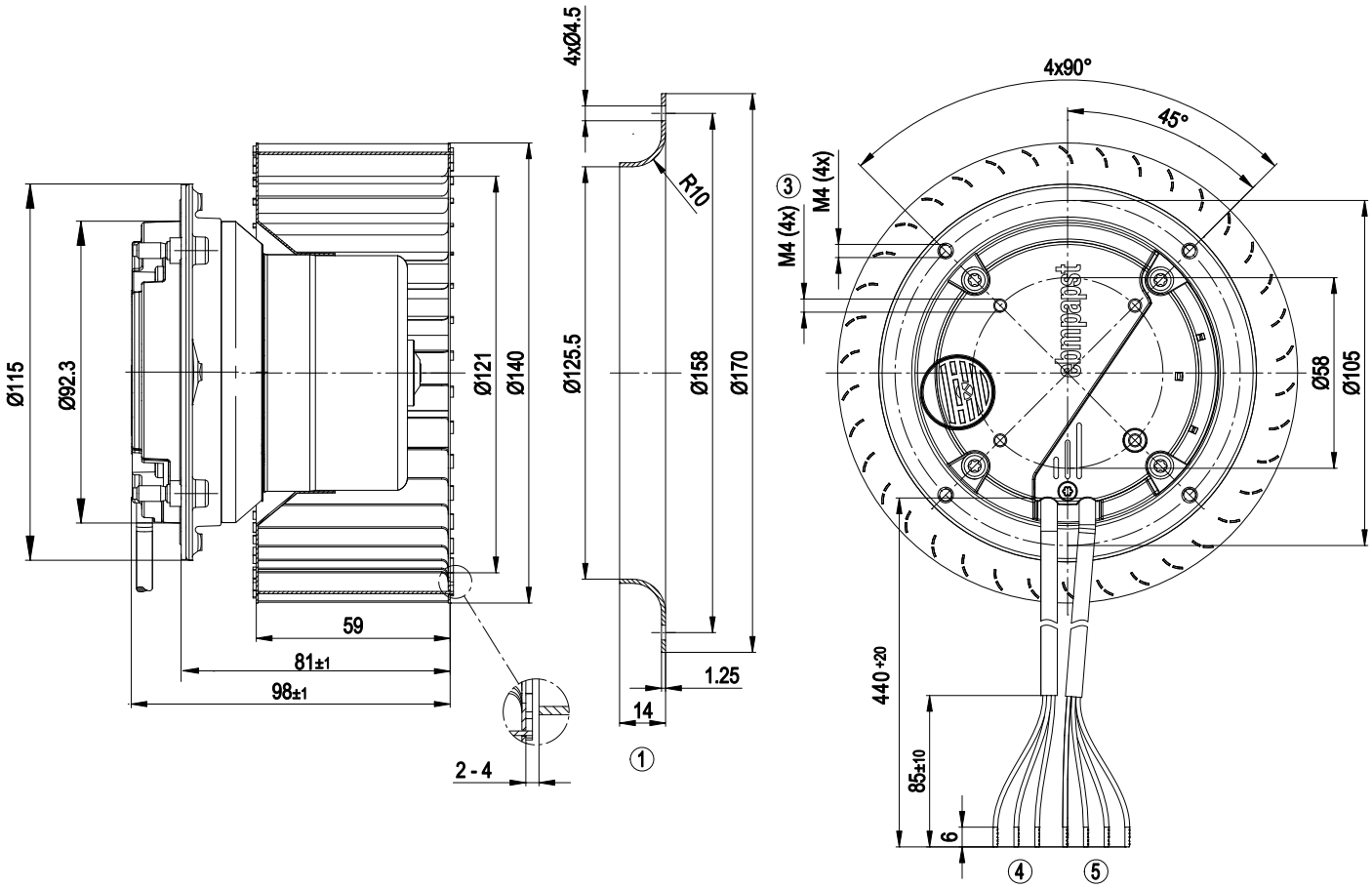
Technical features

Mass	1.24 kg
Size	140 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	Sheet steel, galvanised
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)
Leakage current	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	CCC

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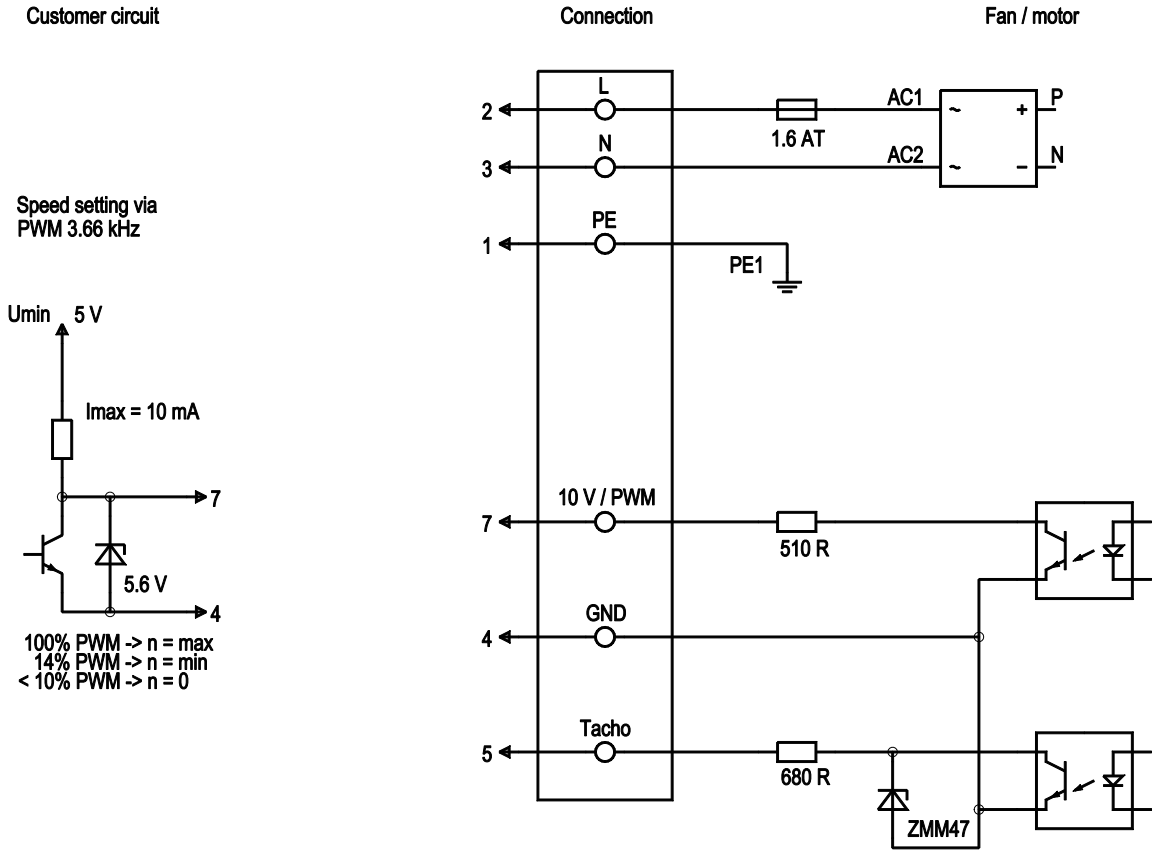
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Product drawing



1	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
3	Max.clearance for screw 5 mm
4	Connection line AWG20 UL style 2517, 3 x brass lead tips crimped
5	Connection line AWG22 UL style 2464, 4 x brass lead tips crimped

Connection screen



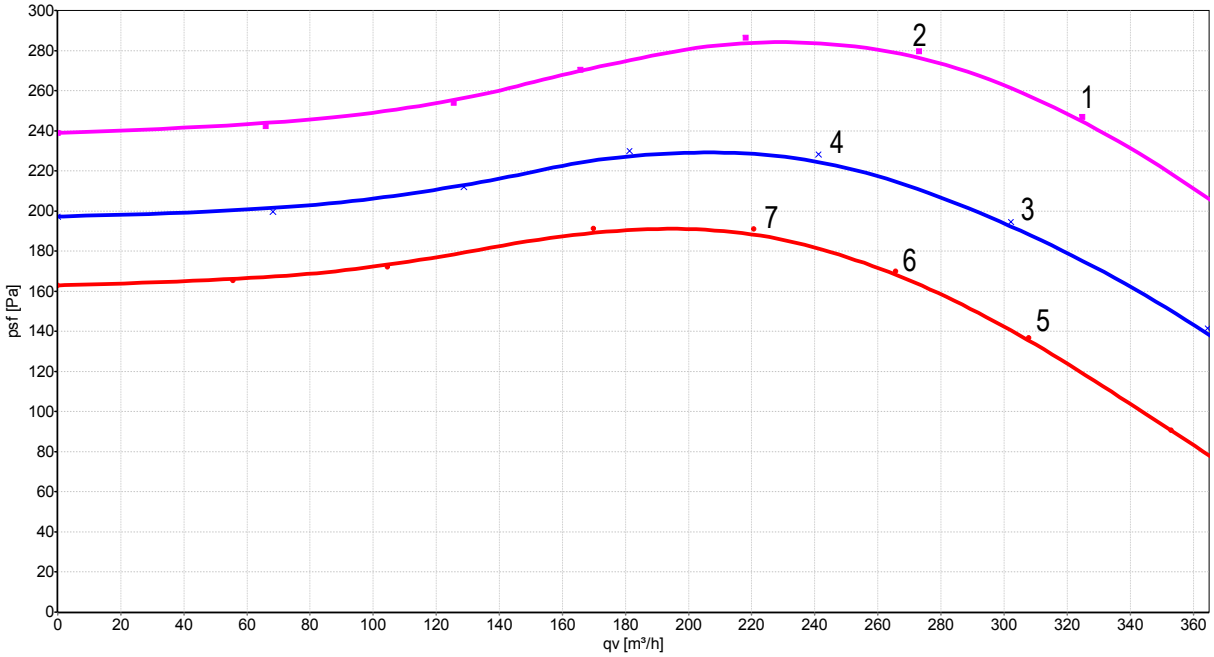
Line	No.	Signal	Colour	Function / assignment
	1	PE	green/yellow	Protective earth
	2	L	brown	Power supply 230 VAC, 50 - 60 Hz
	3	N	blue	Neutral conductor
	4	GND	blue	GND - Connection for control interface
	5	Tacho	white	Tach output: Open Collector, 1 pulse per revolution, electrically isolated
	7	PWM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

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Charts: Air flow 50 Hz



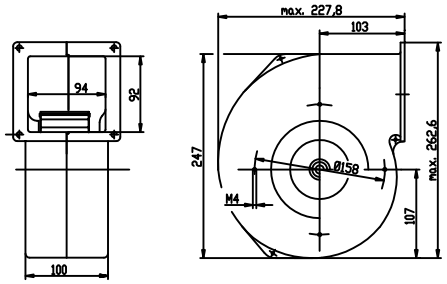
Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions 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

No.	U [V]	I_N [A]	P_e [W]	λ	n [1/min]	p_{sf} [Pa]	p_{sf12} [Pa]	p_f [Pa]	q_v [m³/h]	η_e [%]	LpA_{In} [dBA]	LwA_{In} [dBA]
1	230.13	0.55	69.2	0.55	2207	246.9	252.5	299.1	324.8	38.9	60.4	67.6
2	230.29	0.44	56.4	0.56	2206	279.8	286.1	316.7	273.0	42.4	59.8	67.0
3	229.91	0.40	52.7	0.57	1991	194.6	198.1	240.3	302.2	38.2		
4	230.82	0.33	42.1	0.55	2013	228.3	233.7	257.4	241.2	40.8		
5	230.16	0.36	46.3	0.56	1818	136.6	139.1	184.1	307.9	33.9		
6	230.32	0.30	39.0	0.56	1816	170.0	173.1	205.4	265.6	38.7		
7	230.17	0.25	32.3	0.55	1828	191.0	194.5	215.3	220.6	40.9		

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

Test with scroll housing



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