R3G140-AW17-19

EC centrifugal fan

forward curved



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Nominal data

Type	**R3G140-AW17-19**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	2750
Power input	W	100
Current draw	A	0.75
Max. ambient temperature	°C	40

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

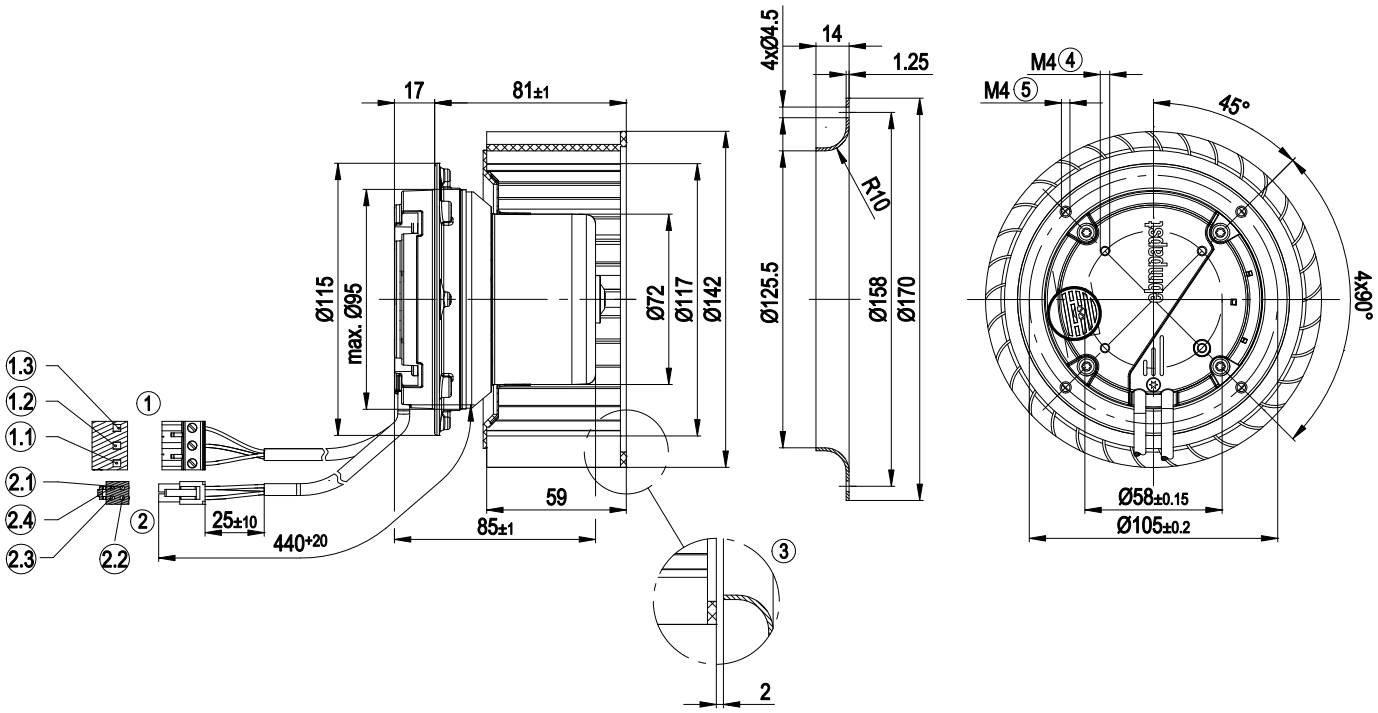
Mass	1.21 kg
Size	140 mm
Surface of rotor	Thick layer passivated
Material of impeller	Plastic PA66, fibreglass-reinforced, round sheet-metal plate coated in black
Number of blades	33
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F3-1
Max. 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	- Control input 0-10 VDC / PWM - Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start
EMC interference immunity	Acc. to EN 61000-6-2
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	With plug
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Approval	GOST

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Product drawing



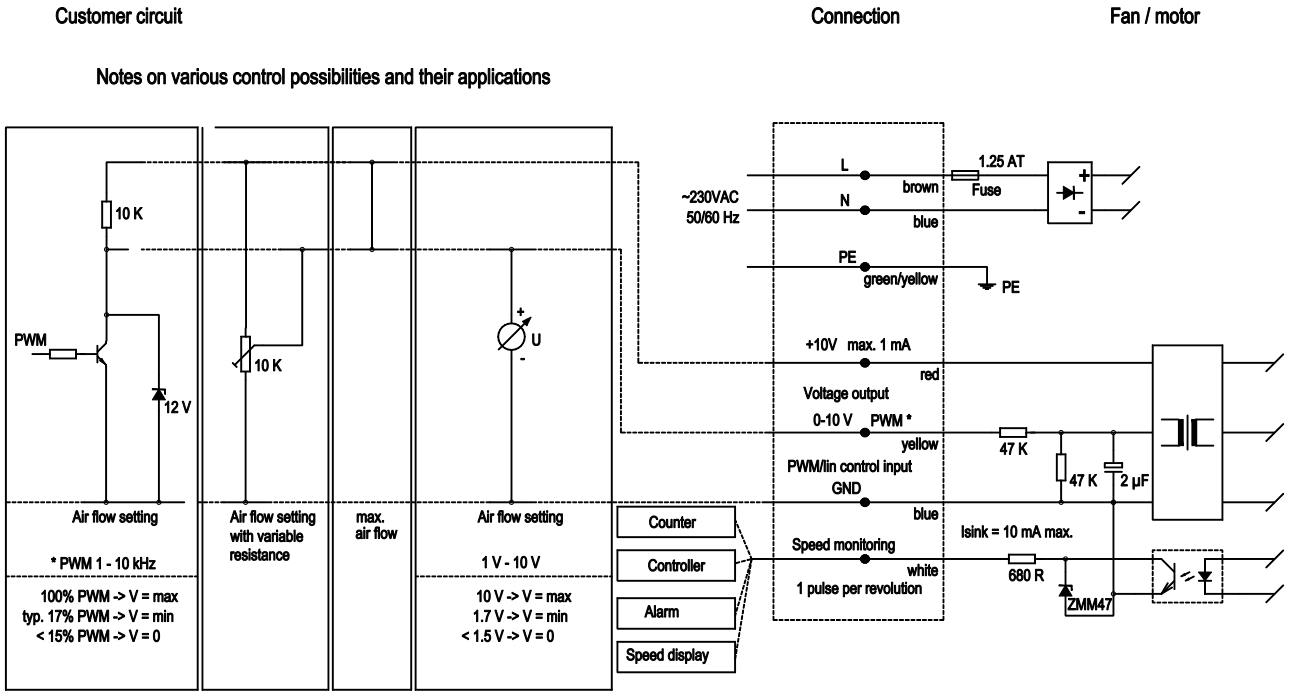
1	Phoenix connector housing GMSTB 2.5 / 3 ST green, connection line H03VV - F 3G 0.5 with 3x brass lead tips
PIN1	green/yellow
PIN2	brown
PIN3	blue
2	Molex Mini-Fit 5557 connector housing Dual Row 39-01-2045, connection line A03VV - F 4x0.25 with 3x Molex Mini-Fit 5556 39-00-0038
PIN1	Control input (yellow)
PIN2	Tach output (white)
PIN3	GND (light blue)
PIN4	n.c. (not assigned)
3	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
4	Depth of screw max. 6 mm
5	Depth of screw max. 6 mm

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Connection screen

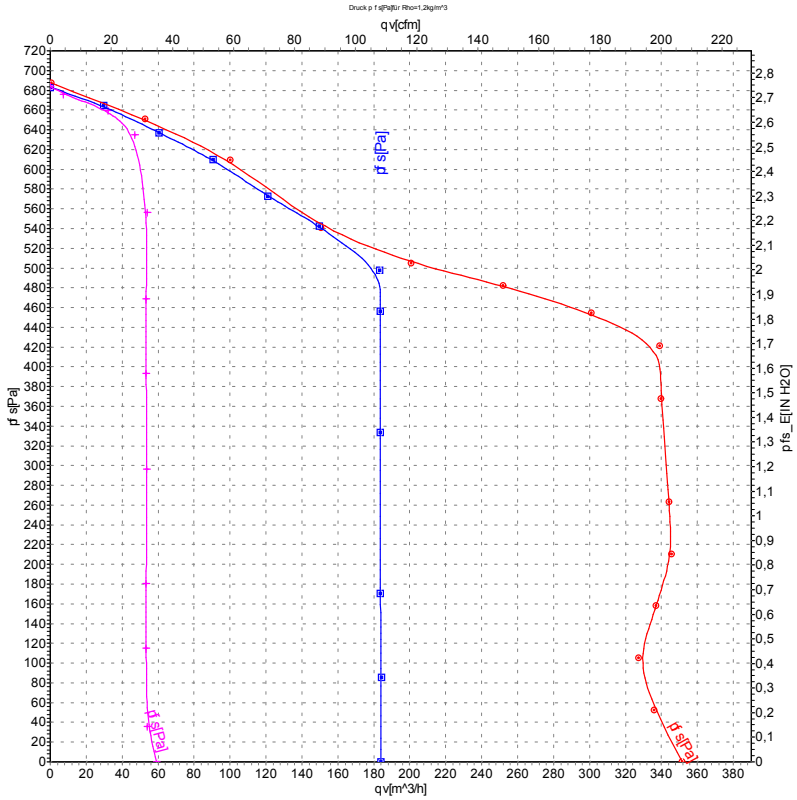


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Charts: Air flow 50 Hz



Measurement: LU-111232
Measurement: LU-72126
Measurement: LU-72127

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	1495	38	0.29	340	0
2	230	50	1990	57	0.43	340	150
3	230	50	2410	82	0.63	340	300
4	230	50	2740	105	0.79	340	400
5	230	50	790	8.5	0.08	185	0
6	230	50	1735	27	0.20	185	150
7	230	50	2450	48	0.35	185	300
8	230	50	2820	64	0.47	185	400
9	230	50	265	2.80	0.04	50	0
10	230	50	1660	13	0.12	50	150
11	230	50	2775	23	0.17	50	300
12	230	50	2640	34	0.25	50	400

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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