

G3G250-GN44-01

## EC centrifugal fan

backward curved, single inlet

with housing (flange), Gas blower for gas-condensing heating



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### Nominal data

Type	G3G250-GN44-01	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	208 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Valid for approval / standard		UL
Speed	min <sup>-1</sup>	4500
Power input	W	860
Current draw	A	4.8 @ 208 V
Min. ambient temperature	°C	-20
Max. ambient temperature	°C	60
Min. temp. of flow medium	°C	0
Max. temp. of flow medium	°C	60

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



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## Technical features

<b>Mass</b>	13.2 kg
<b>Size</b>	250 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of protective cover</b>	Polyflam RPP 374-ND CS1 (UL 97-V0)
<b>Material of impeller</b>	Aluminium sheet
<b>Housing material</b>	Die-cast aluminium
<b>Number of blades</b>	7
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 20
<b>Insulation class</b>	"B"
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	-40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Tach output</li> <li>- Over-temperature protected electronics / motor</li> <li>- PFC, active</li> <li>- Motor current limit</li> <li>- Line undervoltage / phase failure detection</li> <li>- PWM control input</li> <li>- Control input 0-10 V</li> </ul>
<b>EMC interference immunity</b>	Acc. to EN 61000-6-2 (industrial environment)
<b>EMC interference emission</b>	Acc. to EN 61000-6-4 (industrial environment)
<b>EMC harmonics</b>	Acc. to EN 61000-3-2/3
<b>Leakage current</b>	<= 3.5 mA
<b>Electrical leads</b>	With plug
<b>Motor protection</b>	Locked-rotor protection
<b>Protection class</b>	I
<b>Product conforming to standard</b>	CE
<b>Approval</b>	CCC; CSA C22.2 Nr.113; UL 507

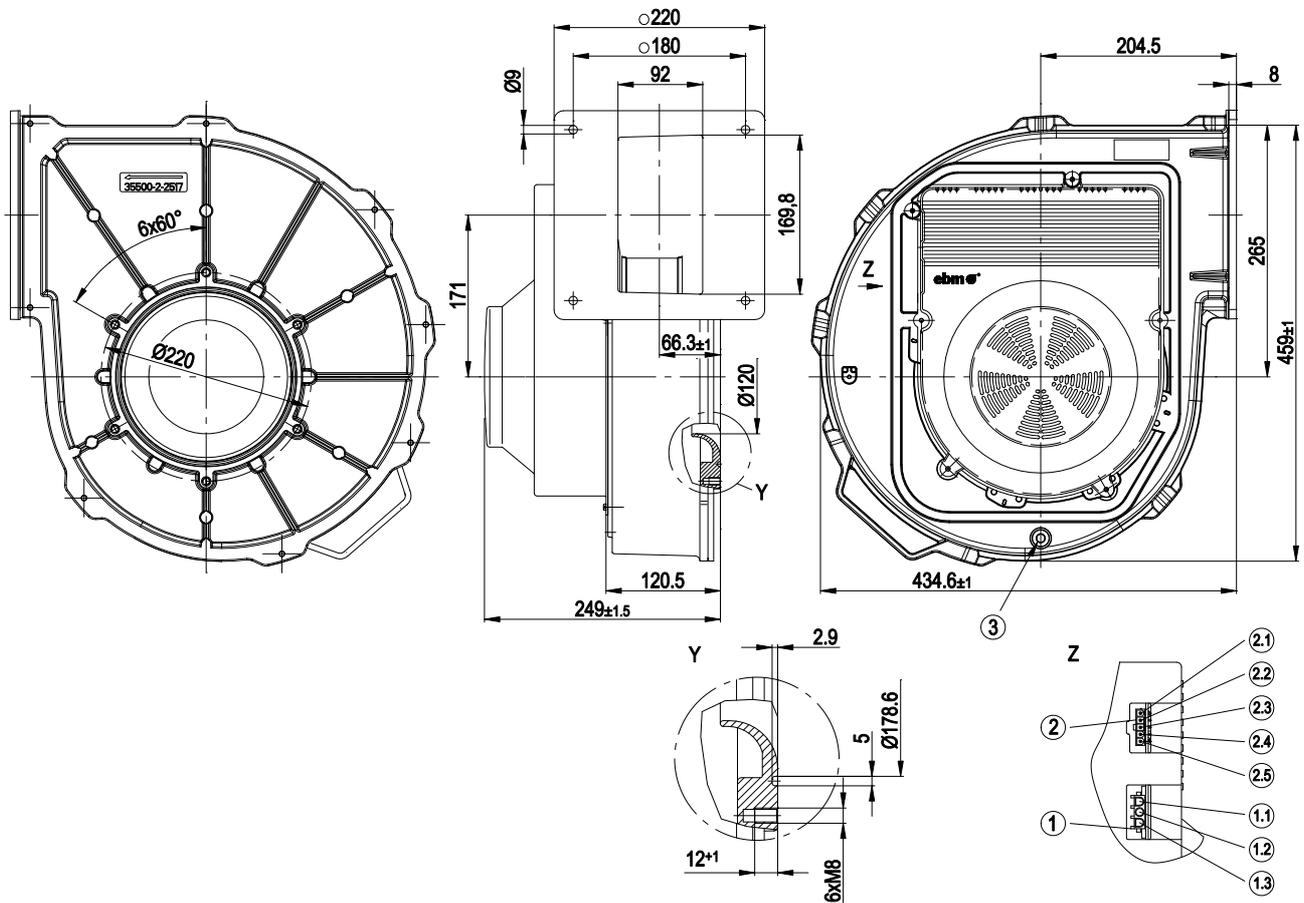


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## Product drawing



1	3-pole strip to fit mating connector (not included in standard scope of delivery) tyco No. 350766-1, female connector tyco No. 926884-1
1.1	L
1.2	N
1.3	PE
2	5-pole strip to fit mating connector (not included in standard scope of delivery) Molex No. 39-01-4050, female connector Molex No. 39-00-0059
2.1	+
2.2	Speed monitoring
2.3	0-10 VDC control input
2.4	PWM input
2.5	-
3	Pressure tap optionally available
Y	Detail Y
Z	View Z / plug assignment

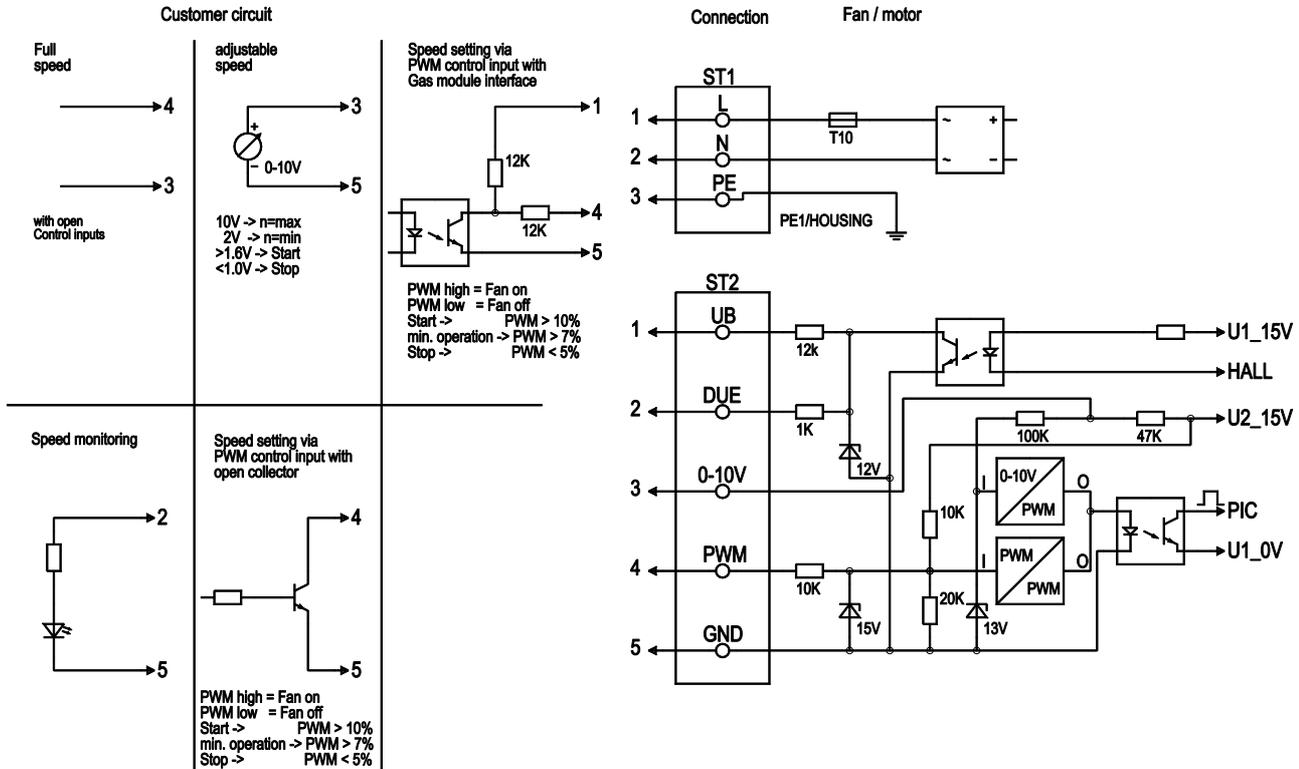


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## Connection screen



No.	Pin	Signal	Function / assignment
ST1	1; 2; 3	L; N; PE	Power supply 230 VAC, 50 - 60 Hz, phase, neutral, protective earth
St2	1	UB	External voltage 16 - 45 VDC, residual ripple +/- 3.5%, SELV
ST2	2	DUE	Speed monitoring, 3 pulses per revolution, SELV
ST2	3	0 - 10 V	Control input 0 - 10 V, impedance 100k, SELV
ST2	4	PWM	Control input PWM, 1 - 6 kHz, SELV
ST2	5	GND	GND - Connection for control interface, SELV

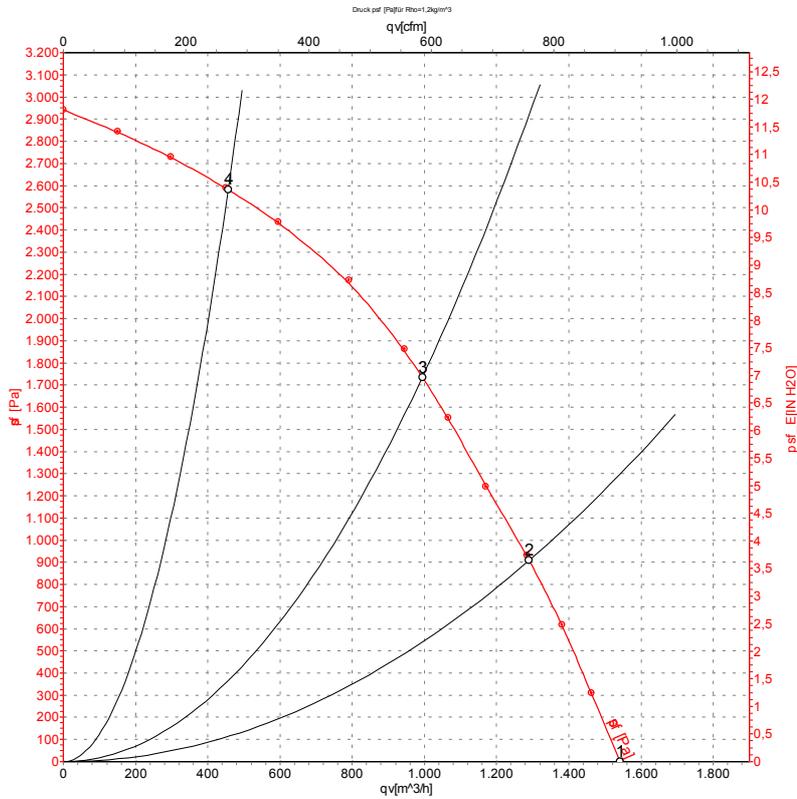


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## Charts: Air flow 50 Hz



Measurement: LU-106095

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: L<sub>wA</sub> measured as per ISO 13347 / L<sub>pA</sub> 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 <sub>e</sub>	I	LpA <sub>in</sub>	qv	P <sub>sf</sub>
	V	Hz	min <sup>-1</sup>	W	A	dB(A)	m <sup>3</sup> /h	Pa
1	230	50	4480	822	3.59	85	1540	0
2	230	50	4430	924	4.04	83	1290	914
3	230	50	4465	890	3.90	78	995	1736
4	230	50	4655	663	2.90	78	455	2583

