

G3G250-GN39-01

EC centrifugal fan

backward curved, single inlet

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



G3G250-GN39-01 ebmpapst Datasheet FansCo

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Nominal data

Type	G3G250-GN39-01	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 130
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	4800
Power input	W	1200
Current draw	A	13
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

Mass	13.2 kg
Size	250 mm
Surface of rotor	Coated in black
Material of protective cover	Polyflam RPP 374-ND CS1 (UL 97-V0)
Material of impeller	Aluminium sheet
Housing material	Die-cast aluminium
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"B"
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	<ul style="list-style-type: none"> - PFC, passive - Tach output - Over-temperature protected electronics / motor - Line undervoltage detection - Motor current limit - PWM control input - Control input 0-10 V
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 61000-6-4 (industrial environment)
Leakage current	<= 3.5 mA
Electrical leads	With plug
Motor protection	Locked-rotor protection
Protection class	I
Approval	CSA C22.2 Nr.113; UL 507

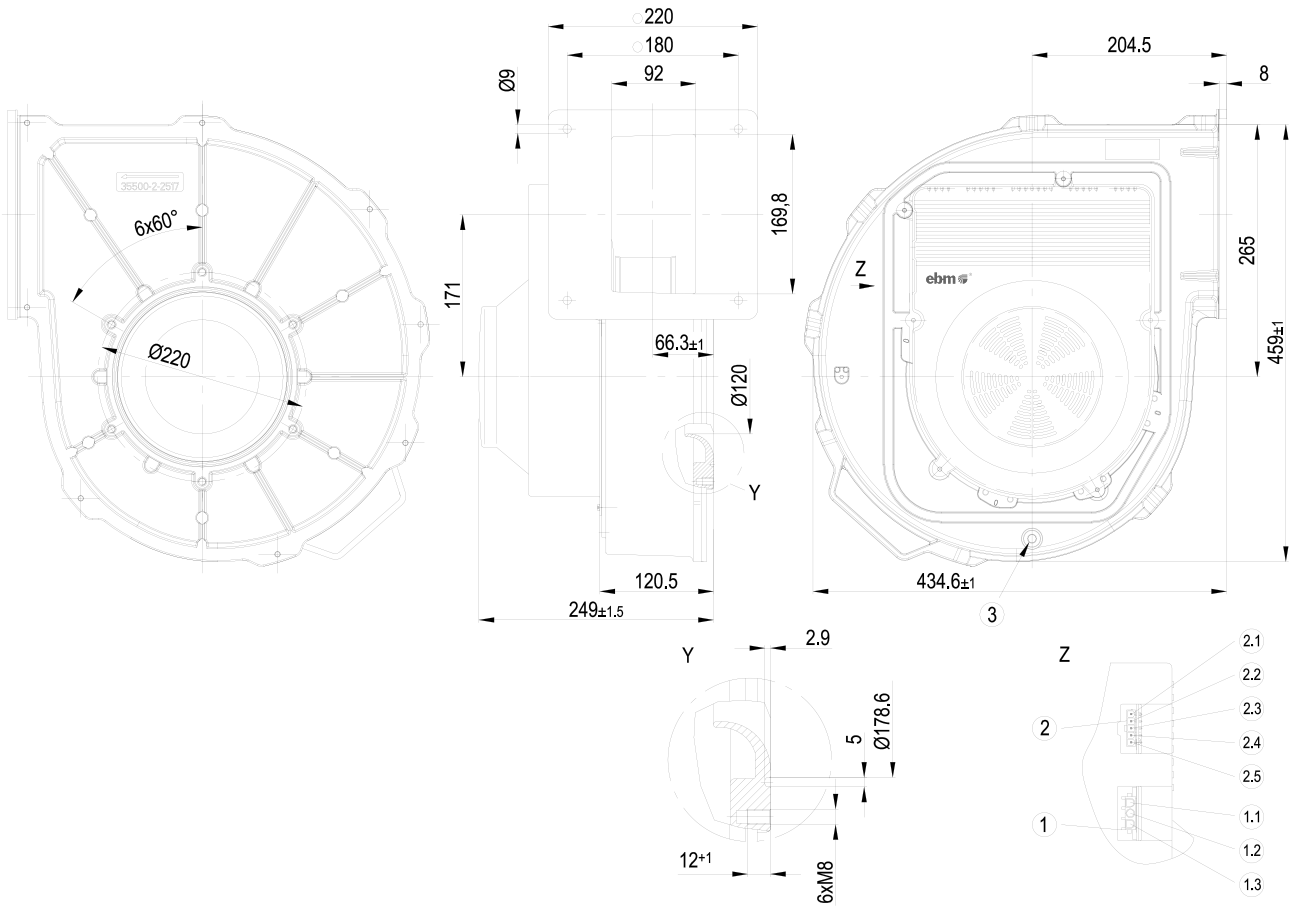


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Product drawing



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

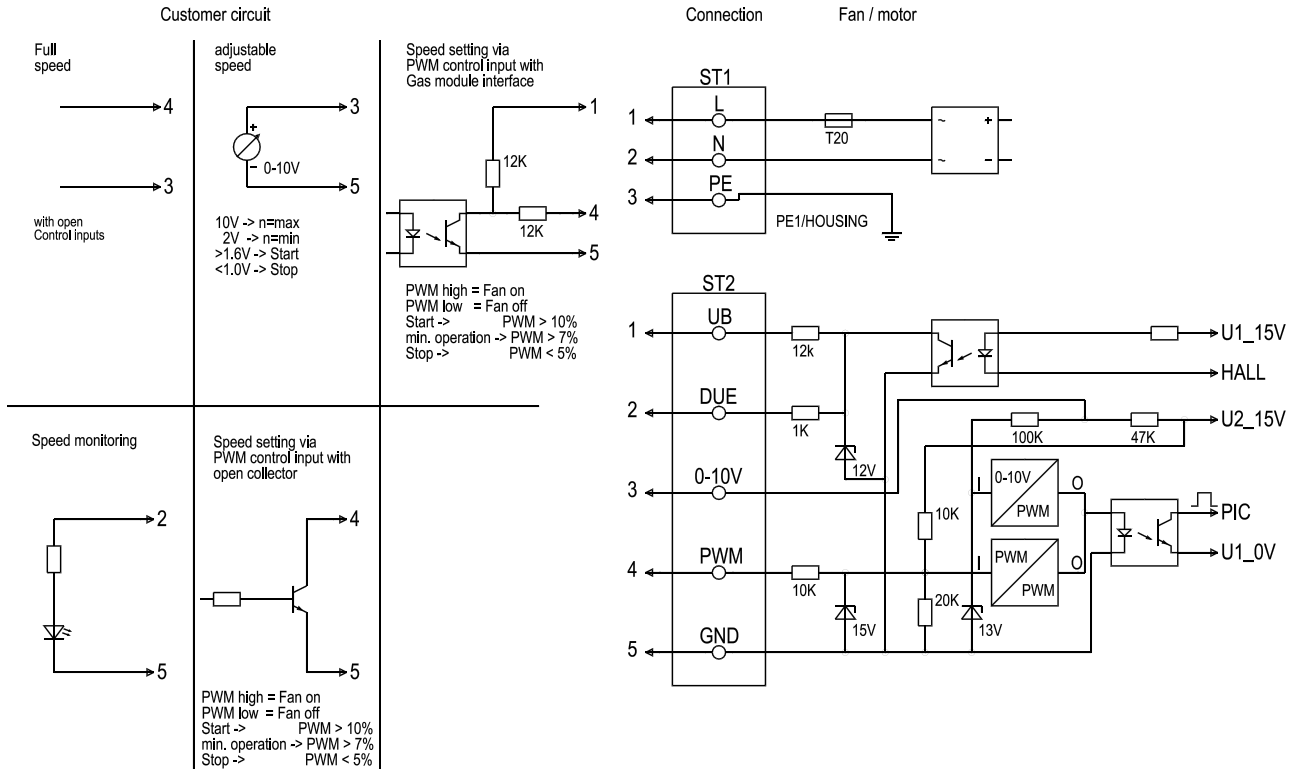


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Connection screen



No.	Pin	Signal	Function / assignment
ST1	1; 2; 3	L; N; PE	Power supply 115 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	Power supply 230 VAC, 50 - 60 Hz, phase, neutral, protective earth

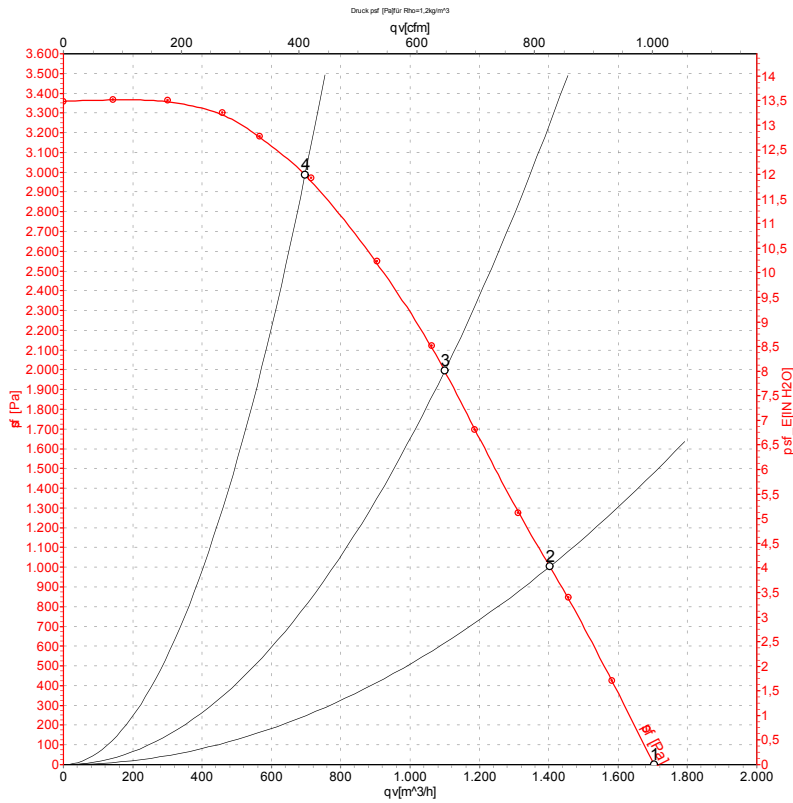


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Charts: Air flow 50 Hz



Measurement: LU-73322

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_{wA} measured as per ISO 13347 / L_{pA} 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 _e	I	LpA _{in}	qv	p _{sf}
	V	Hz	min ⁻¹	W	A	dB(A)	m ³ /h	Pa
1	115	50	4925	1152	12.40	91	1705	0
2	115	50	4770	1200	13.00	89	1405	1000
3	115	50	4830	1182	12.76	81	1100	2000
4	115	50	5090	1056	11.43	79	695	3000

