

G1G170-AB31-53

EC centrifugal fan

backward curved, single inlet
with housing (flange), Gas blower for gas-condensing heating



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Nominal data

Type	G1G170-AB31-53	
Motor	M1G074-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Speed	min ⁻¹	6530
Power input	W	410
Current draw	A	1.8
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Min. temp. of flow medium	°C	-25
Max. temp. of flow medium	°C	80

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	4.7 kg
Size	170 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
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"B"
Humidity class	F2-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Cooling bore / aperture	Rotor-side
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limit - Control input PWM
Leakage current	<= 3.5 mA
Electrical leads	With plug
Motor protection	Thermal overload protector (TOP) wired internally
Approval	CSA C22.2 Nr.113; UL 507

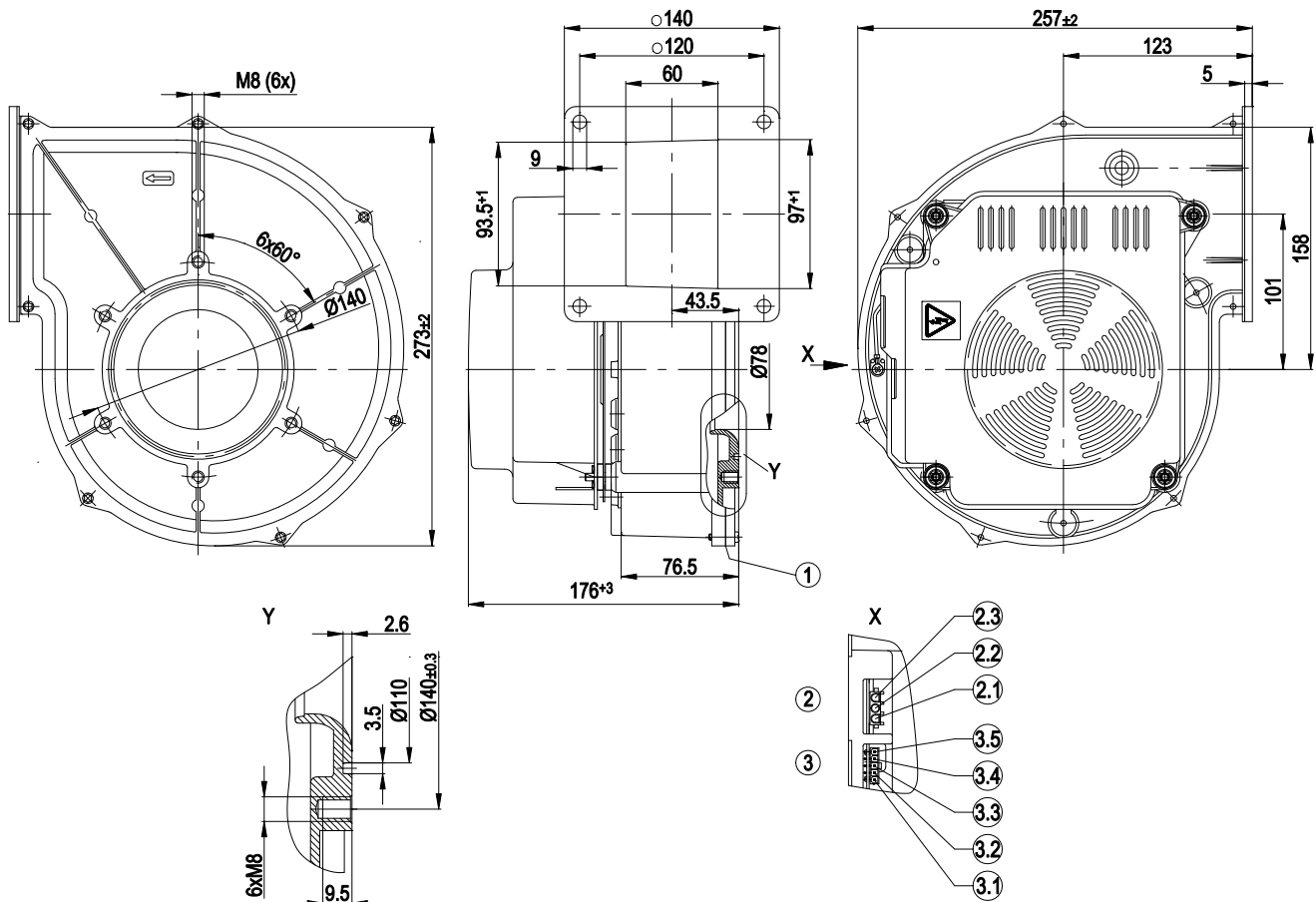


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Product drawing

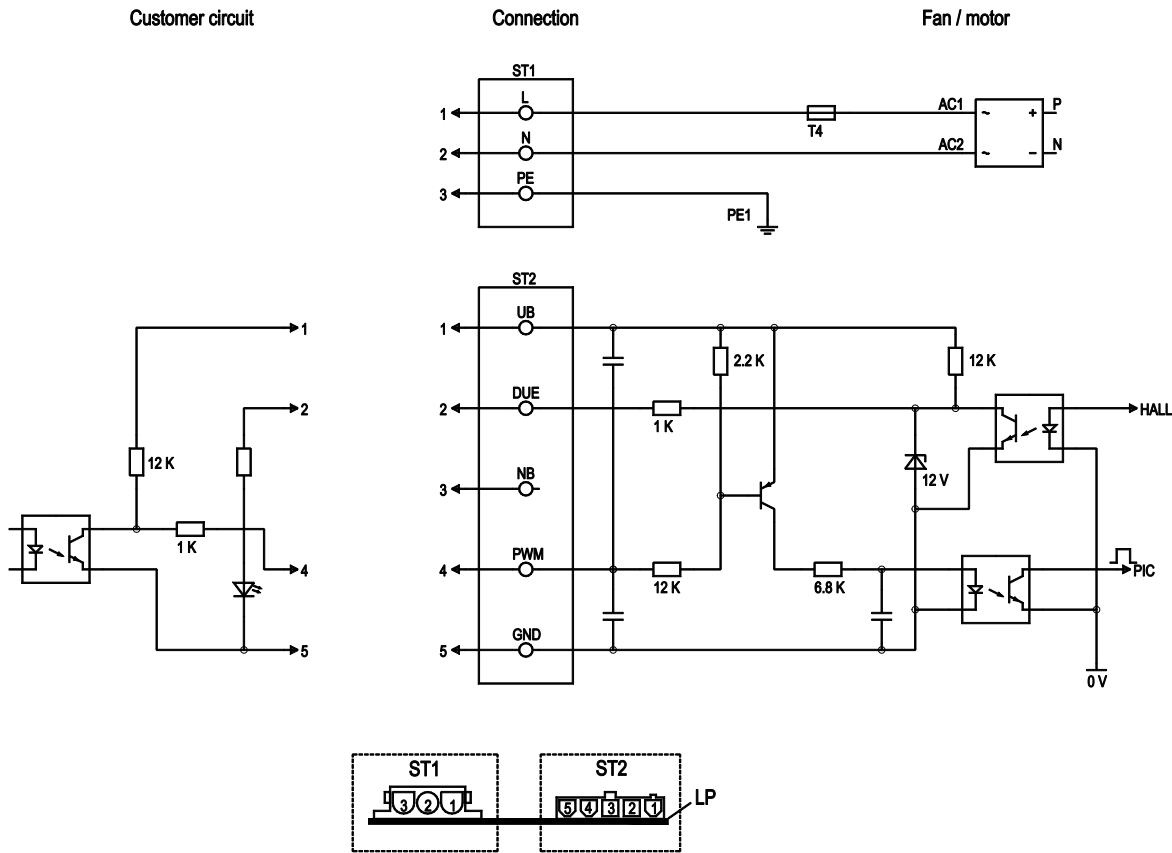


1	Housing side parts sealed with NBR round cord (pentane-resistant)
2	3-pole strip, mating connector: (not included in standard scope of delivery): tyco No. 350 766-1; female terminal: tyco No. 926 884-1
2.1	L
2.2	N
2.3	PE
3	5-pole strip; mating connector (not included in delivery) Molex No. 39-01-4050, female connector Molex No. 39-00-0059
3.1	(+)
3.2	Speed monitoring
3.3	Not assigned
3.4	PWM input
3.5	(-)

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Connection screen



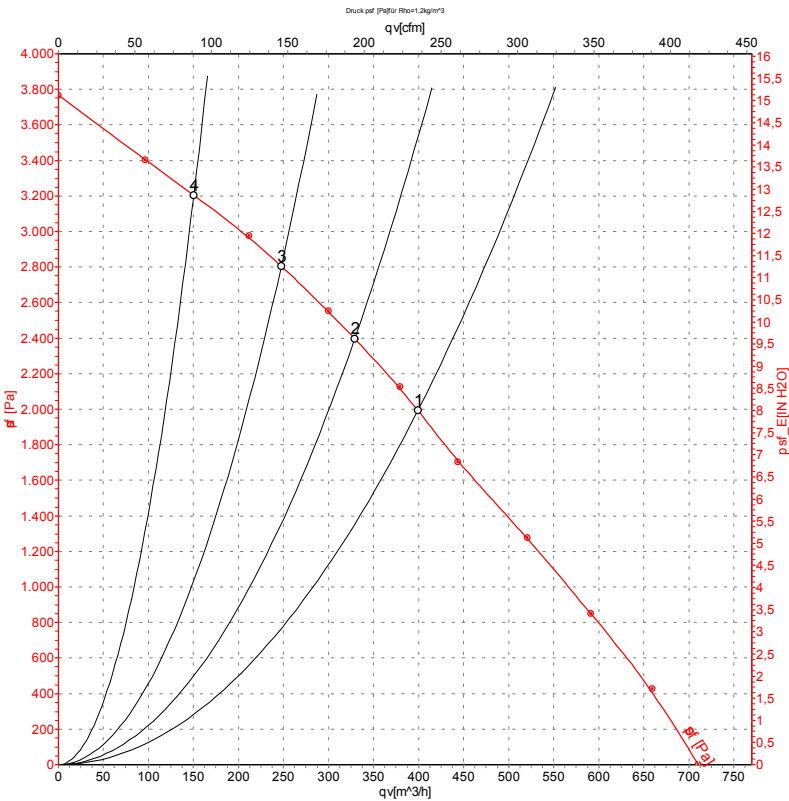
No.	Pin	Signal	Function / assignment
ST1	1,2,3	L, N, PE	Power supply 230 VAC, 50-60 Hz, neutral conductor, protective earth
ST2	1	UB	External voltage 18-43 VDC
ST2	2	DUE	Speed monitoring output connection, monitoring circuit output, 3 pulses per revolution, current source 2 mA
ST2	3	N.C.	Not assigned
ST2	4	PWM	PWM - 2 - 6 kHz control input, PWM on n = 100%, PWM low n = 0%
ST2	5	GND	GND - Connection for control interface



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Charts: Air flow 50 Hz



Measurement: LU-56469

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	qv	P _{st}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	6530	410	1.80	380	2000
2	230	50	6665	400	1.75	330	2400
3	230	50	6915	370	1.62	250	2800
4	230	50	7250	326	1.44	150	3200

