



บริษัท เอดีดี เฟอร์เนส จำกัด

ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ: 08-08-170-170 แฟกซ์: 02-888-3258

<https://www.add-furnace.com> E-mail: sales@add-furnace.com

G1G170-AB53-80

EC centrifugal fan

backward curved, single inlet

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



ASIA PACIFIC SHENGRUI LIMITED

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Nominal data

Type	G1G170-AB53-80	
Motor	M1G074-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		fa
Speed	min ⁻¹	5830
Power input	W	360
Current draw	A	1.6
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+55
Min. temp. of flow medium	°C	-25
Max. temp. of flow medium	°C	+80

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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.02

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	58.8	42	45
Efficiency grade N	74.8	58	61
Power input P_{ed}	kW	0.3	
Air flow q_v	m ³ /h	285	
Pressure increase p_{fs}	Pa	2000	
Speed n	min ⁻¹	6220	

Data established at point of optimum efficiency





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Technical features

Mass	4.5 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"
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Cooling bore / aperture	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Output 10 VDC, max. 10 mA - Motor current limit - PFC, active - Control input 0-10 VDC / PWM - Over-temperature protected motor
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 61000-6-4 (industrial environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	With plug
Motor protection	Thermal overload protector (TOP) wired internally
Approval	CCC; UL 507; CSA C22.2 Nr.113





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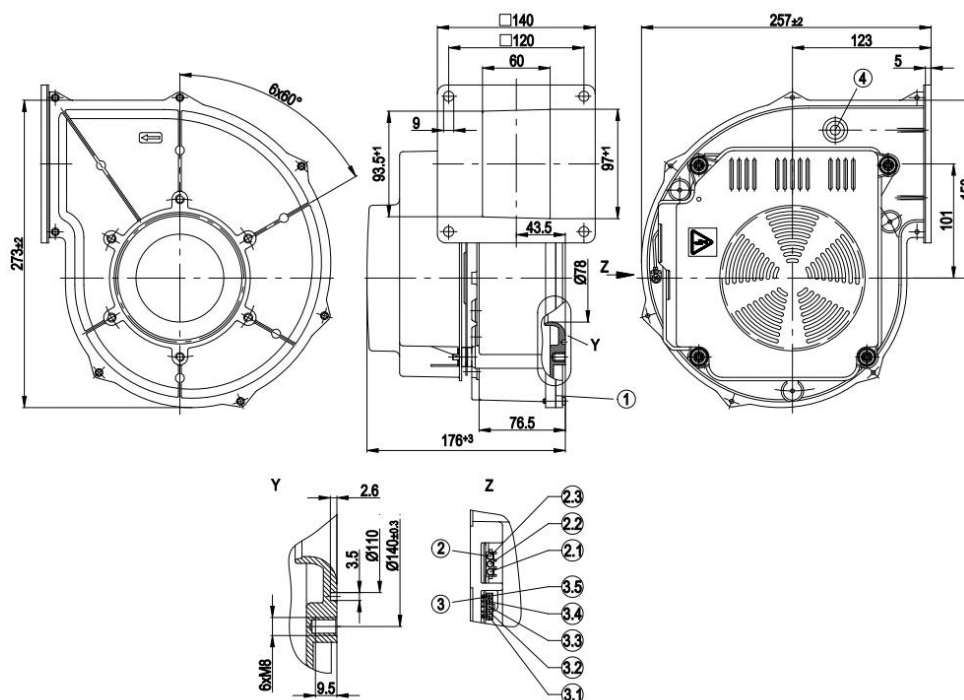
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Product drawing



1	Housing side parts sealed with NBR round cord (pentane-resistant)
2	3-pole strip; mating connector (not included in delivery): tyco No. 350 766-1; female connector: 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	10V output, max. 10mA
3.2	Speed monitoring
3.3	Lin control input
3.4	PWM input
3.5	(-)
4	Bleeder connection for pressure relief possible
5	View Z



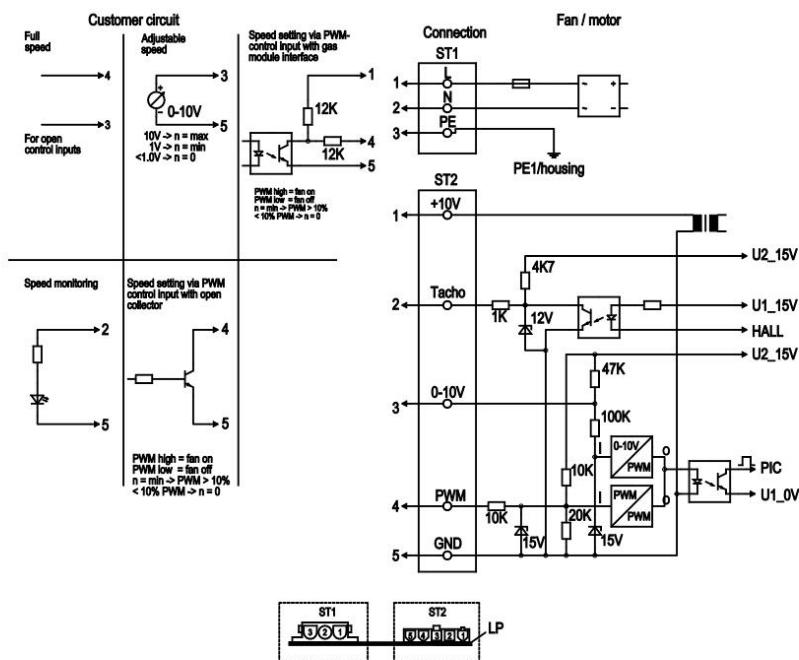
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Connection screen



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	10V/ max. 10mA	Voltage output 10 VAC (+/-3%), max. 10 mA, power supply for ext. devices (e.g. potentiometer), SELV
ST2	2	Tach	Tacho output, 3 pulses per revolution, SELV
ST2	3	0-10V	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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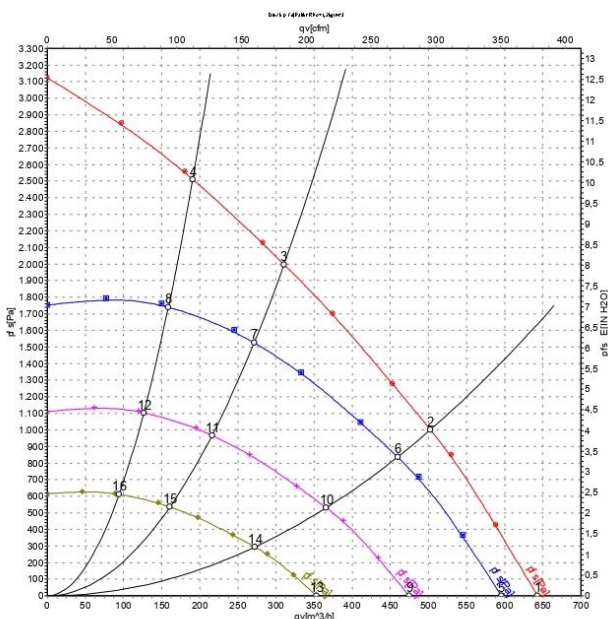
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Charts: Air flow 50 Hz



Measurement: LU-57509

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 _{ed}	I	q _v	P _{is}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	50	5830	360	1.60	645	0
2	230	50	5905	346	1.52	505	1000
3	230	50	6175	308	1.35	310	2000
4	230	50	6480	268	1.18	190	2500
5	230	50	5400	287	1.26	595	0
6	230	50	5400	265	1.16	460	838
7	230	50	5400	206	0.91	270	1527
8	230	50	5400	156	0.68	160	1747
9	230	50	4300	145	0.63	475	0
10	230	50	4300	134	0.59	365	531
11	230	50	4300	104	0.46	215	968
12	230	50	4300	79	0.34	125	1108
13	230	50	3200	60	0.26	355	0
14	230	50	3200	55	0.24	270	294
15	230	50	3200	43	0.19	160	536
16	230	50	3200	32	0.14	95	614

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

