

KARTA KATALOGOWA

G1G170-AB53-03

Wentylator promieniowy EC, łopatki zakrzywione do tyłu, jednostronnie ssący, z obudową (z kołnierzem), dmuchawa do gazowych kotłów

Producent: ebm-papst



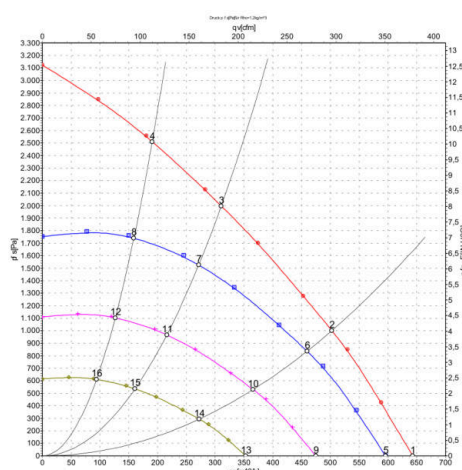
Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	5830 obr/min
Pobór mocy	360 W
Pobór prądu	1,6 A
Maks. wydajność	645 m³/h
Maks. ciśnienie statyczne	3055 Pa
Temperatura otoczenia	-25...+55 °C
Temperatura medium	-25...+80 °C
Regulacja obrotów	PWM

Dane ErP (UE 327/2011)	
Sprawność całkowita	58,8 %
Przepływ w pkt. optymalnym	285 m³/h
Przyrost ciśnienia	2000 Pa
Regulacja prędkości (ErP)	tak

Budowa	
Wielkość	170 mm
Silnik	M1G074-CF
Materiał wirnika	blacha aluminiowa
Obudowa	odlew aluminiowy
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP20
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP), podłączony wewnętrznie
Łożyskowanie	kulkowe
Podłączenie	wtyczka
Masa	4,47 kg

Charakterystyka przepływowa (50 Hz)

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: 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.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

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G1G170-AB53-03

EC centrifugal fan

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



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Nominal data

Type	G1G170-AB53-03	
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

ml = 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 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

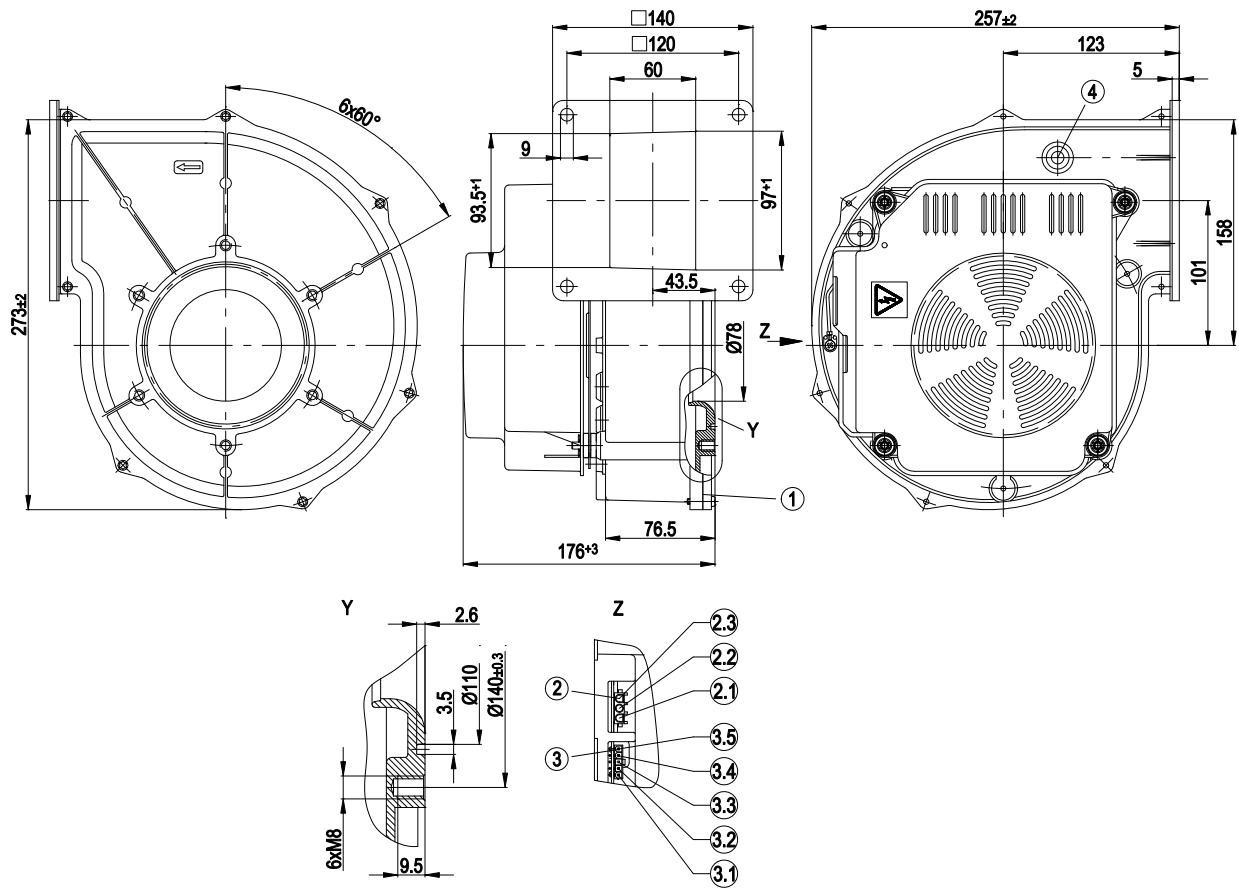
Mass	4.47 kg
Size	170 mm
Surface of rotor	Coated in black
Material of protective cover	Polyflam RPP 374-ND CS1 (UL 97-V0)
Material of impeller	Aluminum sheet
Housing material	Die-cast aluminium
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"B"
Max. permissible 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	- PFC, active - PWM control input - Motor current limit - Tach output - 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 61000-6-3 (household 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	UL 507; CSA C22.2 Nr.113

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Product drawing



1	Housing side parts sealed with NBR round cord (pentane-resistant)
Z	View Z
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	(+)
3.2	Speed monitoring
3.3	Not assigned
3.4	PWM input
3.5	(-)
4	Bleeder connection for pressure relief possible

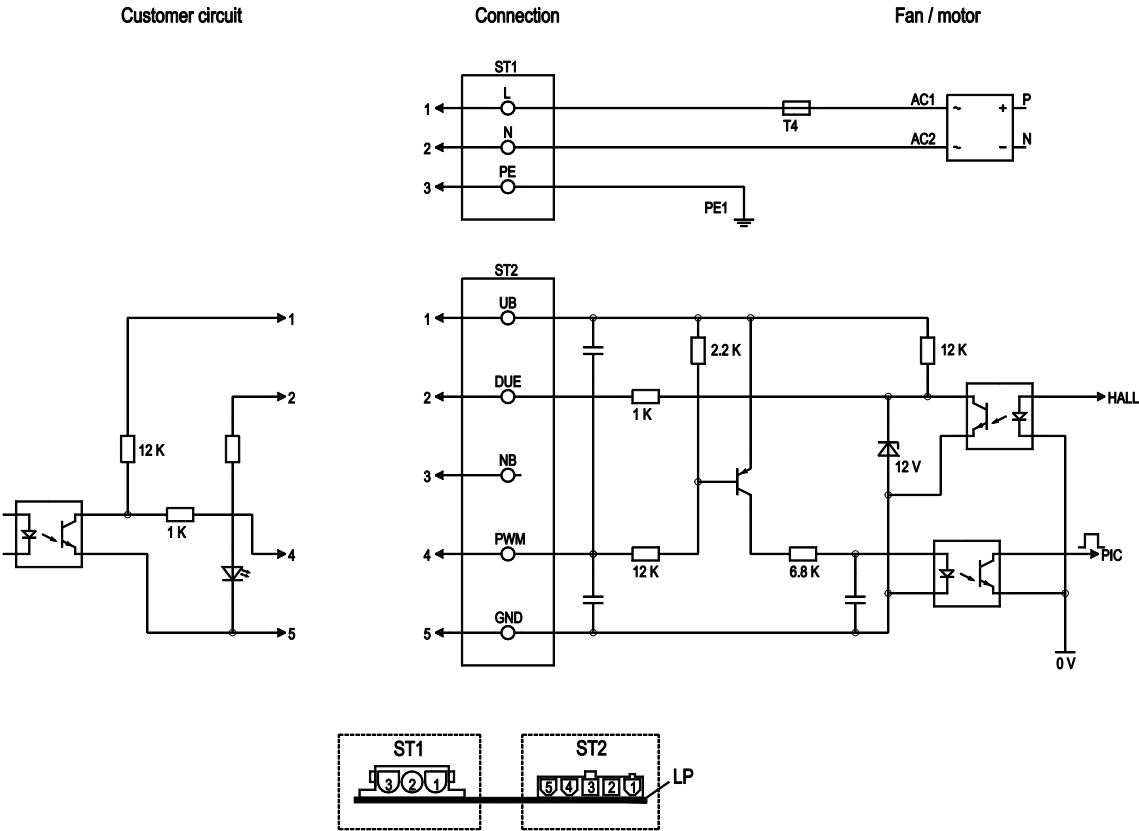


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Connection screen



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	Tach	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

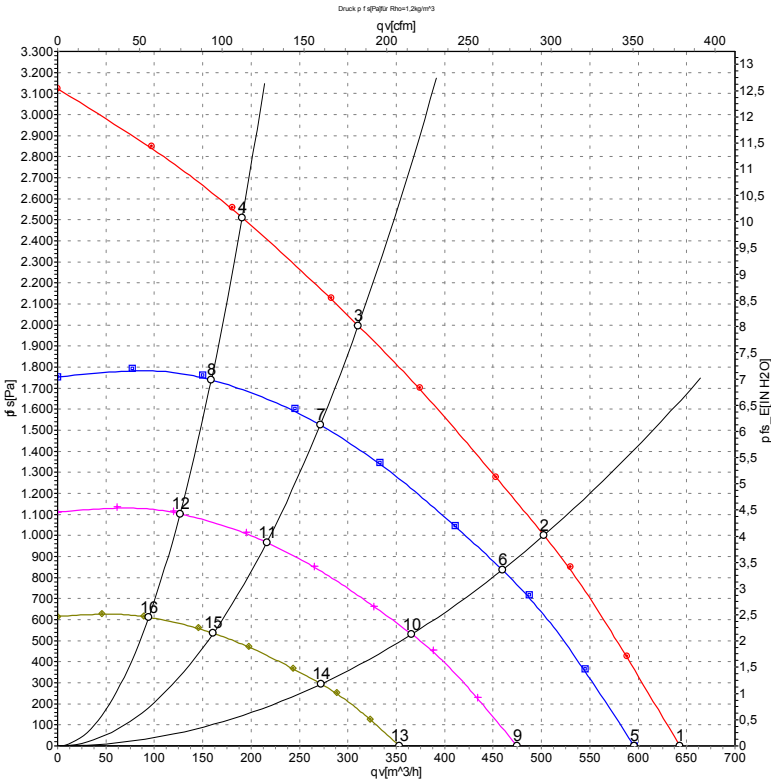


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Measured values

	U	f	n	P _{ed}	I	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	m³/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 · qv = Air flow · p_{fs} = Pressure increase

