

KARTA KATALOGOWA

W1G200-HH77-52

Wentylator osiowy EC, łopatki sierpowe (seria S)

Producent: ebm-papst



Dane znamionowe

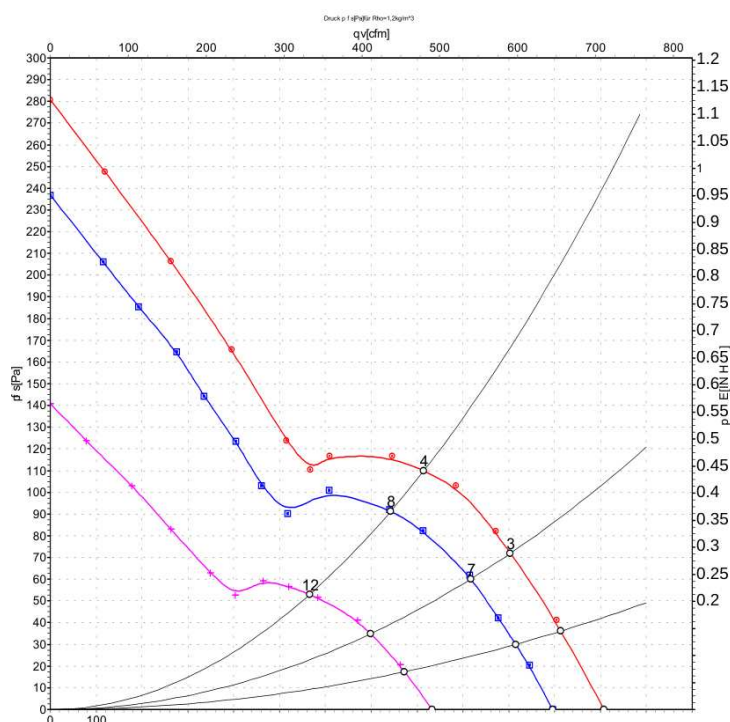
Napięcie znamionowe	24 V DC (16...28 V DC)
Prędkość obrotowa	2950 obr/min
Pobór mocy	55 W
Pobór prądu	2,6 A
Maks. przeciwnieśnienie	120 Pa
Temperatura otoczenia	-25...+60 °C
Regulacja obrotów	0-10 V / PWM

Budowa

Silnik	M1G074-BF
Materiał wirnika	blacha stalowa malowana na czarno
Liczba łopatek	9
Kierunek obrotów	w lewo, patrząc na wirnik
Stopień ochrony	IP42
Klasa izolacji	B
Zabezpieczenie silnika	ochrona przed odwrotną polaryzacją i zablokowaniem wirnika
Podłączenie	skrzynka zaciskowa
Masa	2,13 kg

Charakterystyka przepływowa

Curves: Air performance



Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters must be checked in the installed unit.

Dane na okładce wg karty ebm-papst; strony producenta przetłumaczone z wersji rosyjskiej (oryg. RUS).

Prędkość, moc i prąd wg instrukcji ebm (w karcie producenta brak tych wartości). Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

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W1G200-HH77-52

EC axial fan

sickle-shaped blades (S series)


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Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	W1G200-HH77-52	
Motor	M1G074-BF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)		
Power consumption		
Current draw		
Max. back pressure		
Min. ambient temperature		
Max. ambient temperature		

 ml = Max. load ·
Subject to change


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Technical description

Weight	2.13 kg
Motor size	200 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Wall ring material	Die-cast aluminum
Number of blades	9
Direction of air flow	«V»
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP 42
Insulation class	«B»
Humidity protection class	F0
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	
Condensation drainage holes	
Mode	
Motor protection	
Technical features	- Control input 0-10 VDC / PWM
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	55022 (class B)
Electrical hookup	terminal box
Motor protection	reverse polarity and locked-rotor protection
Conformity with standards	EN 60335-1
Approval	GOST; UL 1004-1; CSA C22.2 No. 77

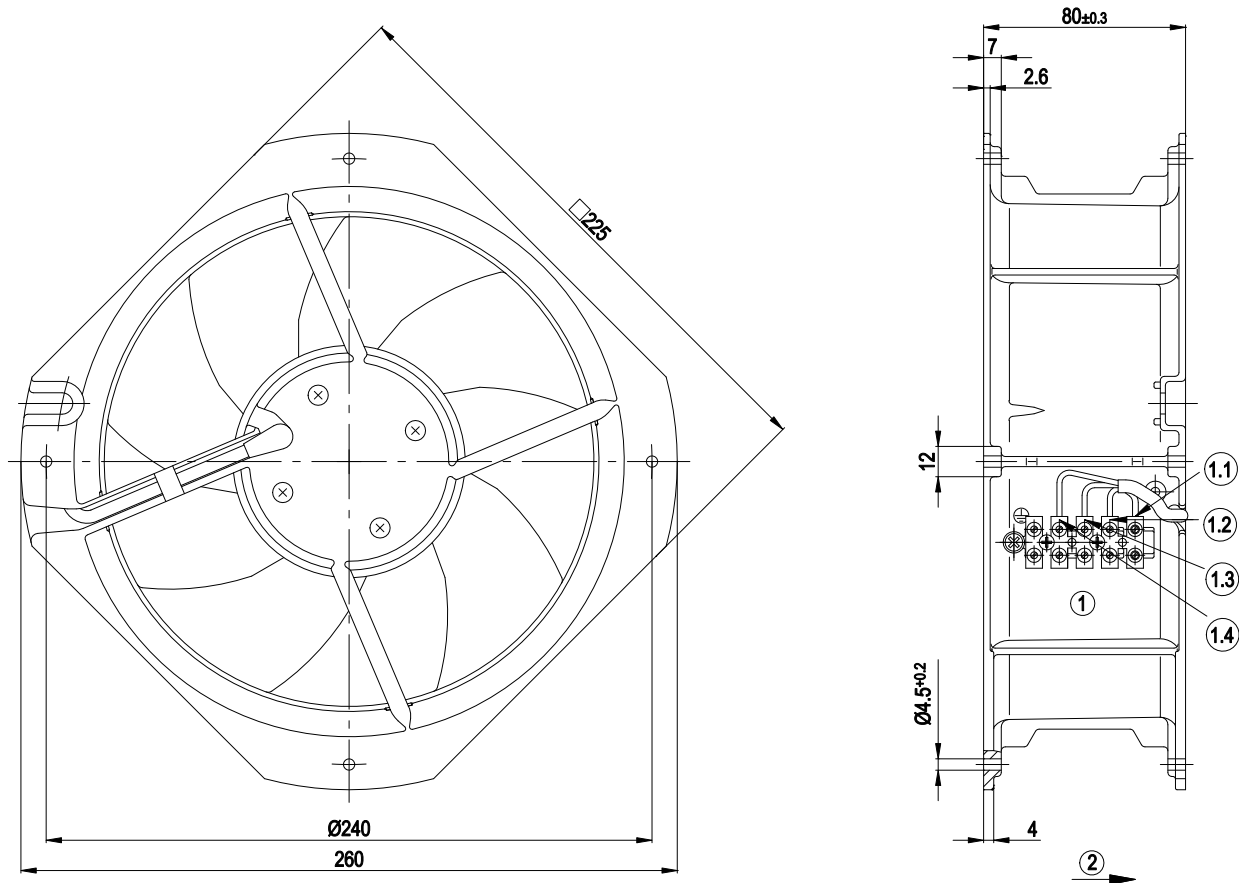


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EC axial fan

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Product drawing



1	Conn.
1.1	UN +24 VDC (red)
1.2	GND (blue)
1.3	DUE
1.4	0-10
2	Voltage

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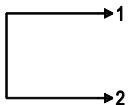
EC axial fan

sickle-shaped blades (S series)

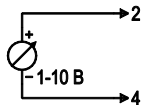
Connection diagram

Сторона пользователя

полная частота вращения

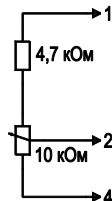


регулируемая частота вращения

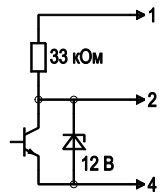


10 В → n = макс.
1 В → n = мин.
<1 В → n = 0
Безопасный запуск при Uпот -30 % от 4 В Ucontr.

частота вращения, регулируемая потенциометром

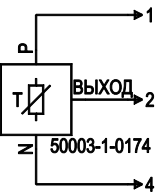


частота вращения, регулируемая посредством ШИМ 1-10 кГц



100 % ШИМ → n = макс.
10 % ШИМ → n = мин.
<10 % ШИМ → n = 0
Безопасный запуск при Uпот -30 % от 40 % ШИМ

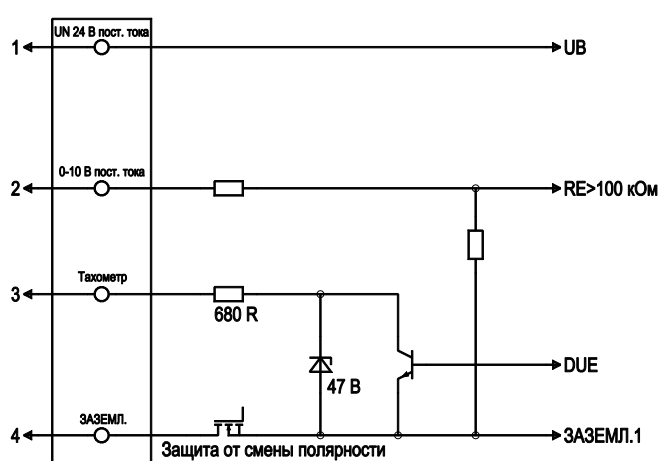
регулировка с помощью терморегулятора



T < 10 °C → n = 0
T > 45 °C → n = max

Подключение

Вентилятор/двигатель



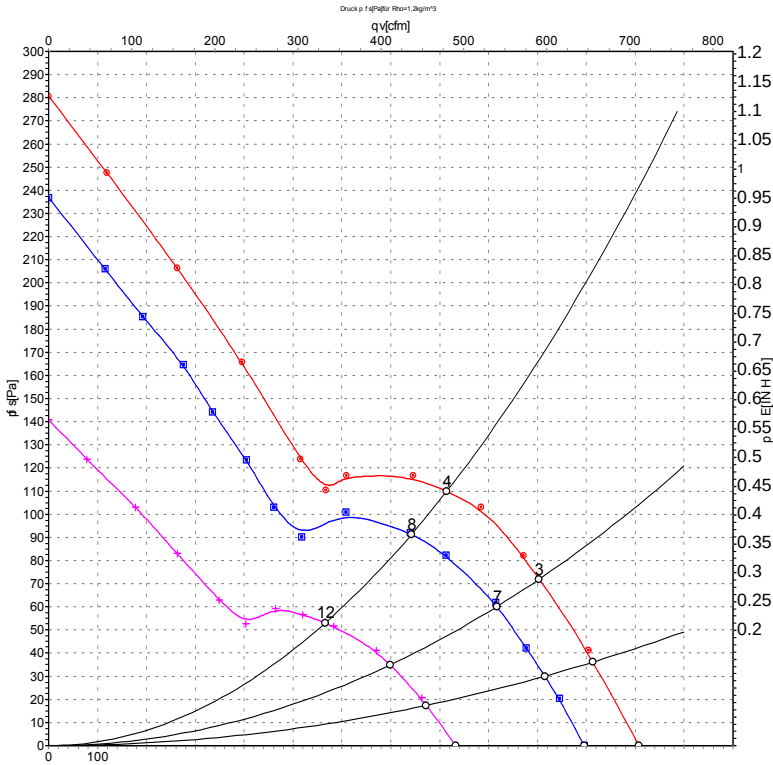
№	Conn.			
1	1			
1	2			
1	3	Tach	white	Tach output, 3 pulses/revolution, Isink max. = 10 mA
1	4	GND	blue	Common

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Measured values

	U					
	V					
1	28	3285	73	2.91	1205	0
2	28	3190	76	3.01	1115	38
3	28					72
4	28					110
5	24					0
6	24	2915	57	2.67	1015	30
7	24	2860	60	2.76	915	60
8	24	2785	62	2.88	740	90
9	16	2285	28	2.08	835	0
10	16	2245	28	2.09	770	18
11	16	2200	29	2.13	700	35
12	16	2145	30	2.18	565	53

U = Supply voltage · n = Speed · P

ed= Power consumption · I = Current draw · qv = Air flow · p

Δp= Pressure increase

