

Модель: AX-4E350S-G1.EC
Артикул: A06-350-001

Тип: осевой ЕС



Описание
Вентиляторы серии AX имеют электродвигатели с внешним ротором. Вентиляторы оснащены крыльчаткой с серповидными лопастями, которая имеет динамическую балансировку в двух плоскостях для снижения уровня шума. Могут использоваться для отвода тепла или обдува различных технологических установок и оборудования.

- Назначение**
- системы вентиляции производственных, общественных и жилых зданий
 - холодильная техника

*** Более подробная информация в нашем онлайн каталоге на сайте www.hivento.ru**

1. Технические характеристики

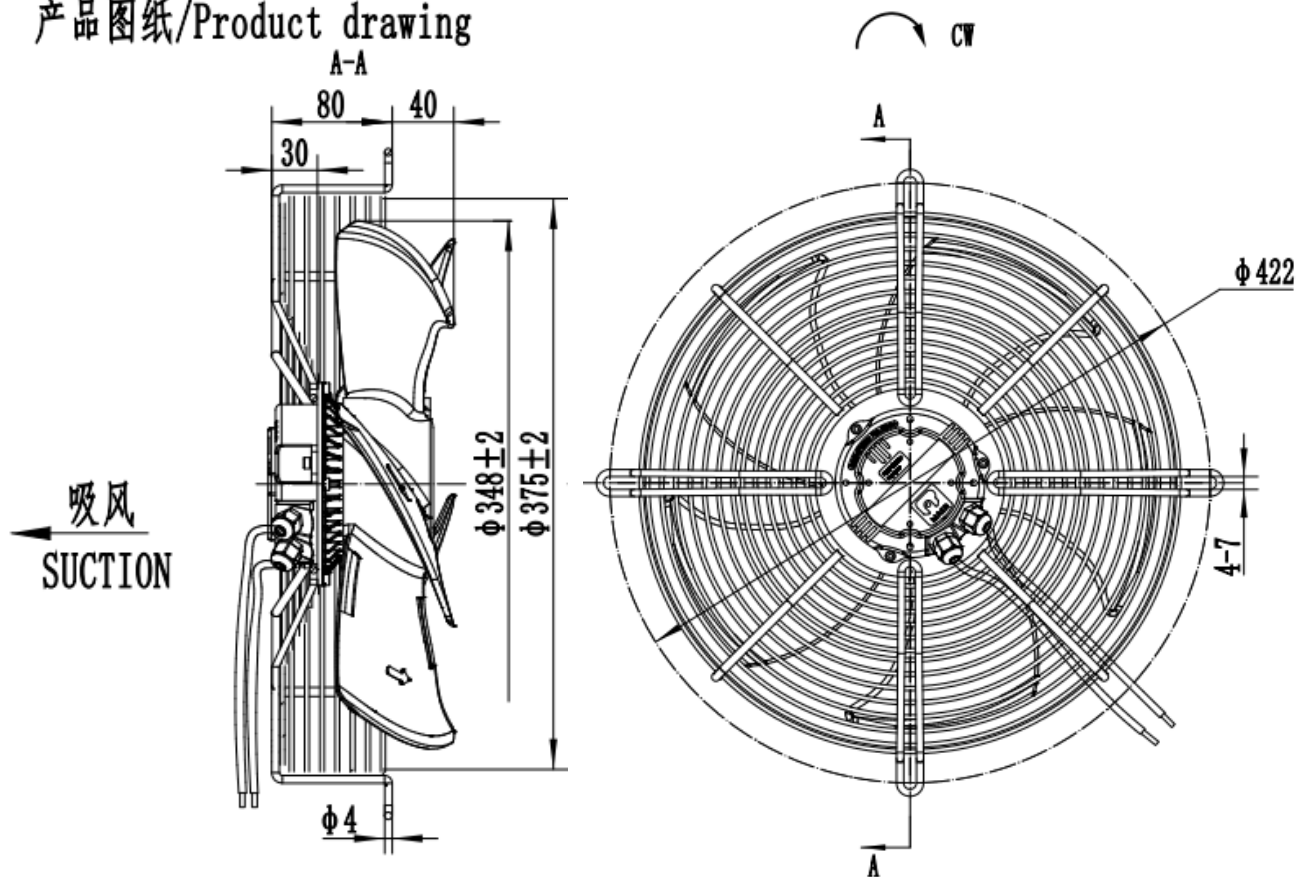
Номинальные данные		
Напряжение	230	[В]
Частота	50	[Гц]
Вх. мощность	177	[Вт]
Ток	1.46	[А]
Воздушный поток	3332	[м3/час]
Частота вращения	1700	[об/мин]
Уровень звукового давления	62	[дБа]
Масса	3.7	[кг]
Степень защиты	IP54	

2. Чертеж изделия

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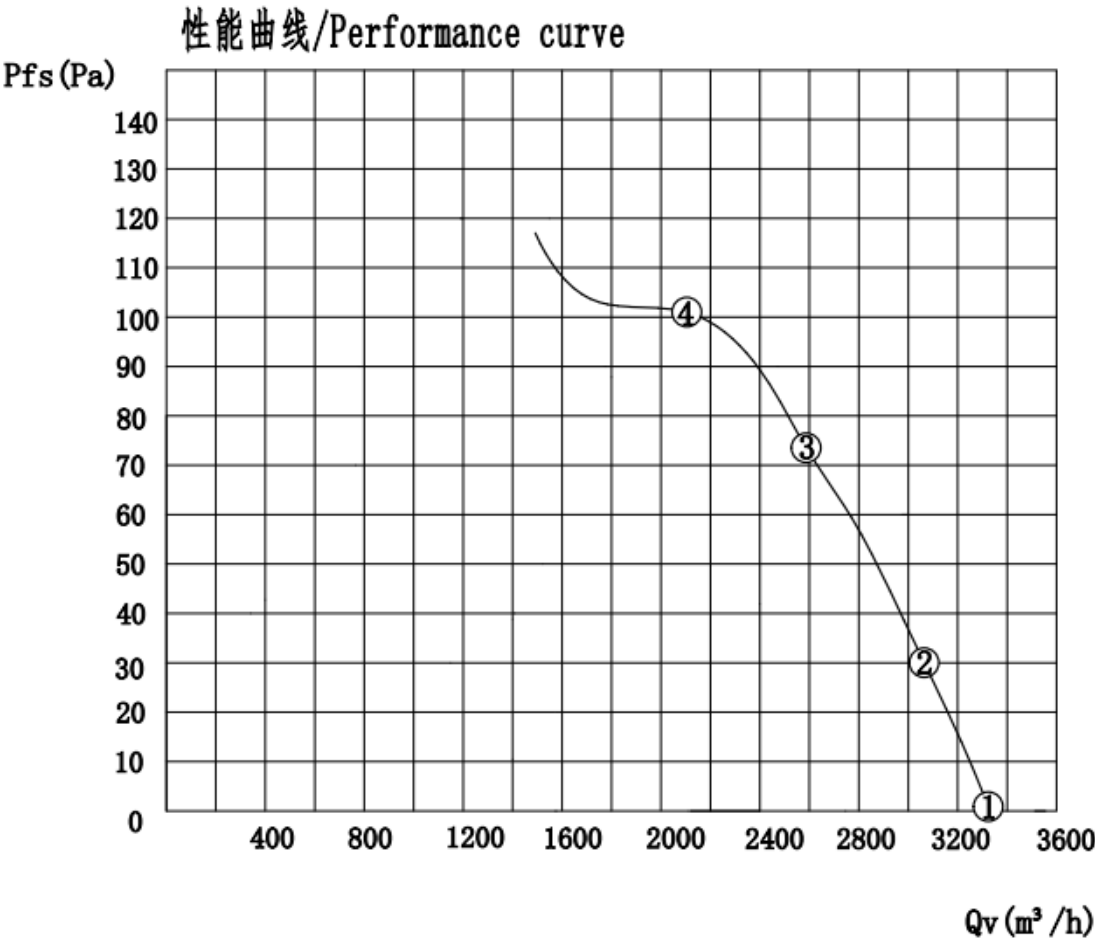
Направление потока воздуха «S»

产品图纸/Product drawing



3. Кривая производительность по воздуху

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Measured values

	静压 Pfs (Pa)	电流 Current input (A)	功率 Power input (W)	转速 Speed (r/min)	流量 Air flow (m³/h)	备注 Note
①	0	1.04	139	1700	3332	
②	30	1.17	158	1700	2927	
③	73	1.32	179	1700	2588	
④	102	1.37	188	1700	2105	MAX. EFF

4. Схема подключения

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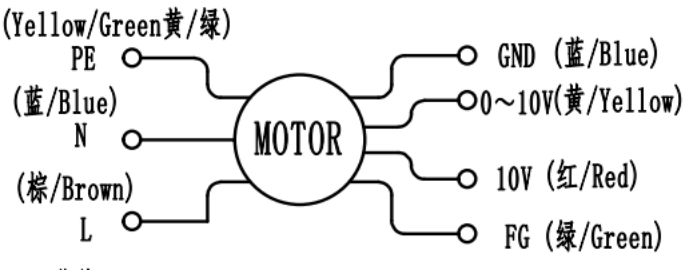
接线端口功能说明图/Function diagram of wiring port

NO.	信号/Signal	分配/功能 Assignment/Function	NO.	信号/Signal	分配/功能 Assignment/Function
P1	PE 黄/Green	接地线, PE线 Earth connection, PE connection	P2	GND 蓝/Blue	接口P2控制信号地线 Signal ground for control interface P2
	N 蓝/Blue	交流电输入, 中性线N极 Mains supply connection, Neutral N pole		0~10V/PWM 黄/Yellow	控制输入0~10V DC/PWM Control input 0~10VDC/PWM
	L 棕/Brown	交流电输入, 供给电压1~198-277V; 50/60Hz Mains supply connection, supply voltage 1~198-277VAC; 50/60Hz		10V 红/Red	固定电压输出10VDC (±10% max.10mA) Rated voltage output 10VDC(+10% max.10mA)
				FG 绿/Green	速度反馈信号 Speed Signal Feedback

额定数据/Rated data

相数	Phase		1~
额定电压	Rated voltage	VAC	230
额定电压范围	Rated voltage range	VAC	198~277
频率	Frequency	Hz	50/60
ERP2020标准	ERP2020 Standard	N	50
ERP2020实测值	ERP2020 Measured	N	50.2 (A,static)
转速	Speed	r/min	1700
输入功率	Power input	W	186
静压	Static pressure	Pa	90
静压效率	Static pressure EFF	%	32.07

接线原理图/Wiring diagram



技术数据/Technical data

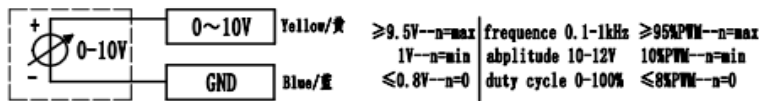
净重	Net weight	3.7 Kg
直径	Size	φ350
电机表面	Surface of motor	镀黑/Coated in black
机壳材料	Material of electronics housing	SPHC
风叶材料	Material of impeller	塑料/Plastic
叶片数量	Number of blades	5
旋转方向	Direction of rotation	顺时针 (从引线端看) Clockwise, see on the leads
绝缘等级	Insulation class	F
湿度范围	Humidity range	5%~95%RH
运行环境温度	Operating temperatures	-25℃~+60℃
贮存环境温度	Storing temperatures	-35℃~+70℃
安装方式	Installation position	轴水平或转子朝下/ Shaft horizontal or rotor on the bottom
运行方式	Operation mode	S1
认证	Approval	CCC、CE
排水孔	Gondensate discharge holes	/
防护等级	Type of protection	IP54
风机保护方式	Type potection of the fan	限流、堵转、软启动、缺相故障、过温保护 Current limitation, Stall protection, Soft start protection, Open phase protection, Overheating protection,

4. Схема подключения

- 1、电压调速输入0-10VDC($\pm 0.2V$)或PWM控制, PWM频率0.1k-1kHz, 幅值10-12V, 占空比0%-100%($\pm 2\%$);
Input voltage for regulating speed 0-10VDC($\pm 0.2V$) or PWM Control, PWM Frequency 0.1k-1kHz, amplitude 10-12V, duty cycle 0%-100%($\pm 2\%$);

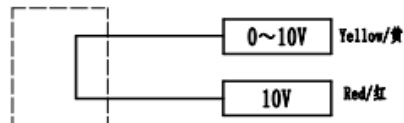
Adjustable speed via voltage/PWM

电压/PWM调速



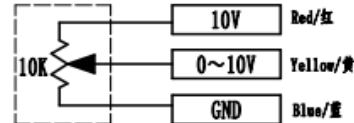
Full speed

全速



Adjustable speed via potentiometer

电位器调速

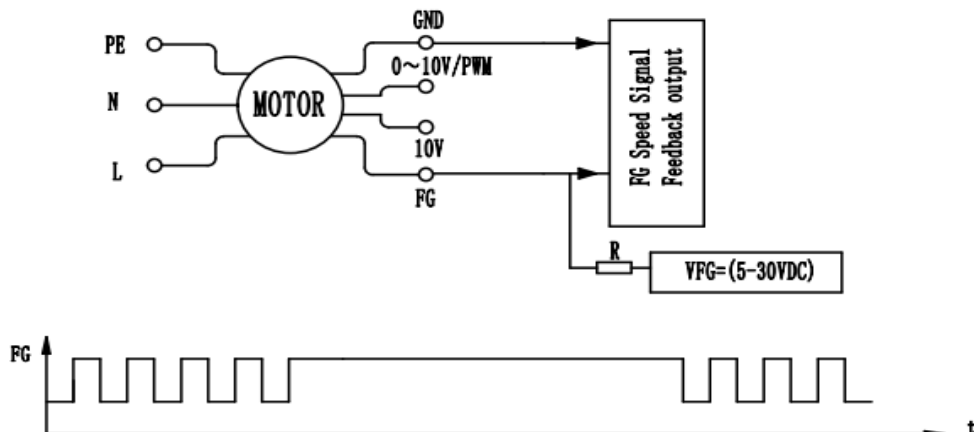


- 2、FG速度反馈信号输出/FG Speed Signal Feedback output:;

注：需要接上拉电阻到+10VDC（接外部电源最高不超过30VDC）， $V_{FG} = (5-30) \text{ VDC}$ ， $R \geq 1000 * (V_{FG}) \Omega$

Mark: Needs to increasing resistance to +10V/DC (External power Max. 30V/DC), $VFG=(5-30)VDC$, $R \geq 1000 \cdot (VFG) \Omega$.

接线原理图/Wiring diagram



当风机待机时,速度反馈输出低电平;当风机故障时,速度反馈输出高电平;当风机运转时,速度反馈输出占空比为50%的方波,频率与电机绕组输入电流的频率一致,一转输出12个方波。

When the fan stand by, the Tacho signal outputs low voltage; when the fan fault, the Tech signal outputs high voltage; when the fan is in normal operation, the Tacho signal generates square waves of 50% duty cycle. The frequency is consistent with the frequency of the motor winding input current. the fan outputs 12 pulses per revolution.

- ### 3. 软启动/ Soft start

电机以低转速起动,大约16秒到达全速,以减少对电源的电流冲击。

The motor start at low speed, after 16 seconds running to full speed, to reduce current surges being drawn to the power supply.

4. 风机设计的额定运行电压为1~230 VAC，电压范围为1~198-277VAC.

The fan is designed with a rated operating voltage of 1~230 VAC, a voltage range of 1~198-277VAC.

5. 本风机电控板对绕组过流软件保护有效值为3A, 电控板对绕组限流软件保护有效值为2A。

The effective value of the wind turbine electric control board for winding overcurrent software protection is 3A, and the effective value of the electric control board for winding current limiting software protection is 2A.