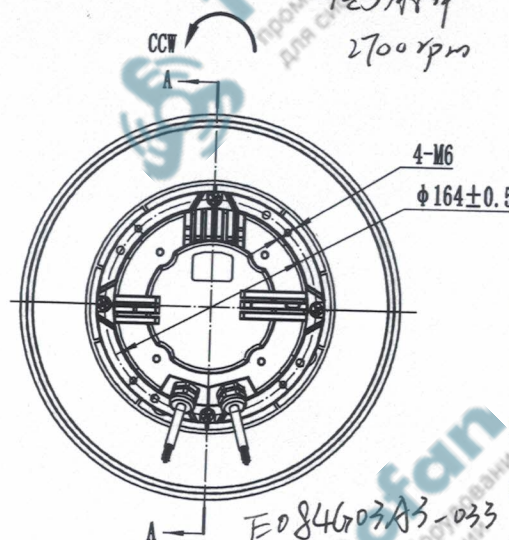
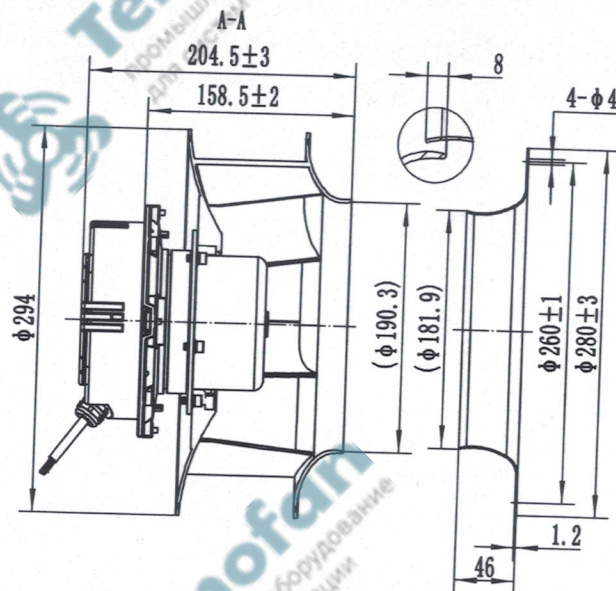
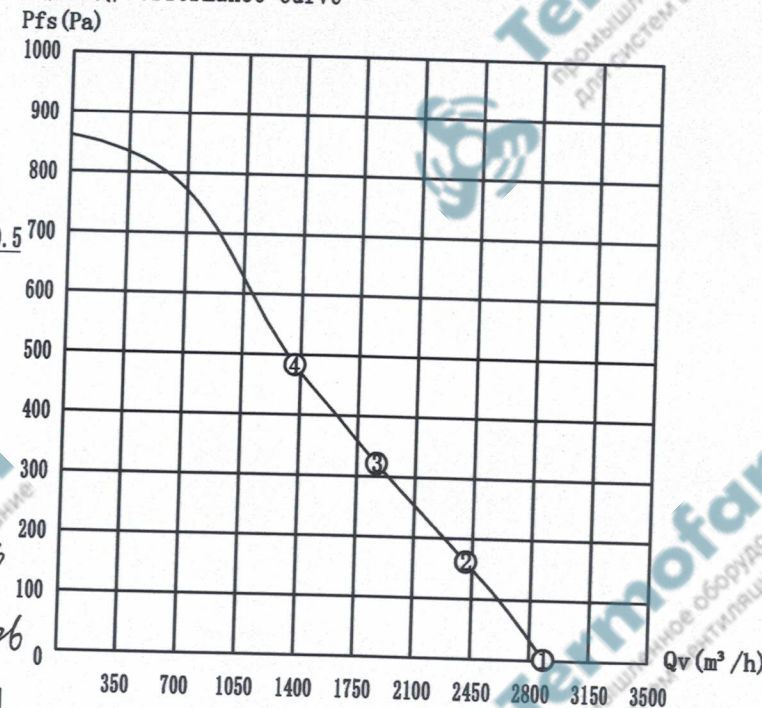


产品图纸/Product drawing



性能曲线/Performance curve



技术条件/Technical conditions

1、本产品标准和安规要求: GB/T 12350, JB/T 10563.

Requirement of production standard and safety regulations: GB/T 12350, JB/T 10563.

2、本产品全部材料符合RoHS 要求.

All material accord with RoHS.

3、风机在2400±10%r/min运转时, 每个端面动平衡精度不低于G6.3, 符合标准 JB/T 9101. /At 2400±10%/min running speed, the residual unbalance of the fan not less than G6.3 (balancing precision grade) in each plane, according with JB/T9101.

4、风机振动速度有效值按照JB/T 8689标准规定.

Vibration speed virtual value of fans accord with JB/T 8689.

5、寿命/Life time

风机寿命估算值30000小时, (在额定电压、环境温度40℃、风机全速运转时).

Fan life expectance 30000 hours, determined when at nominal supply voltage, running at full speed, environment temperature of 40 °C.

6、贮存和使用条件: 贮存场所通风良好, 贮存与使用环境, 空气中不得含有腐蚀性气体 /Storage and use conditions: the storage place should be wellventilated, the storage and use environment should not contain corrosive gases in the air

7、带280塑料离心风轮(KRS)

/With 280 plastic centrifugal wind wheels(KRS)

铭牌/Nameplate:

分装号: 276627
日期: 2026.06.26

PMDWF84L50-B280×127 1~230VAC 50/60Hz
510W 2.23A 2700r/min @0 Pa CL.F IP54
ERP2026 N=65.1 (A,static) 2026/06/24

副唛/Side mark

Вентилятор
Модель: PMDWF84L50-B280×127
Изготовитель: ZheJiang CIMC MaEr Fan Motor CO., LTD
Адрес: NO.333 CHUANGYE ROAD, CHANGAN TOWN, HAINING CITY, ZHEJIANG, CHINA
Товарный знак: MAER
Сделано: КНР
Произведено: 2026

注: 风机数据为换算到标准大气压20℃, 配280号风圈测试时的性能
Note: Fan data is converted to standard atmospheric pressure at 20° C, with 280 inlet ring test performance

性能参数/Measured values

	静压 Pfs (Pa)	电流 Current input (A) ±10%	功率 Power input (W) ±10%	转速 Speed (r/min) ±5%	流量 Air flow (m³/h) ±10%	备注 Note
①	0	2.23	510	2700	2886	
②	160	2.03	465	2487	2414	
③	320	1.86	425	2306	1873	
④	481	1.84	422	2310	1372	MAX. EFF

自由状态测试数据/Free state test data:

Voltage (VAC) ±5%	Frequency (Hz)	Power input (W) ±10%	Current input (A) ±10%	Speed (r/min) ±5%	Noise Lp: dB (A) out
1~230	50/60	442	1.93	2386	83

版本/Ver.	A0	Page 1 of 3	重量/WG.	Kg	签名/Name	日期/Date
绘图/Drawing	2026.6.26		审核/Checked	2026.6.26		
批准/Approved	2026.6.26		客户确认/Cust.Conf.	2026.6.26		
型号/Model	PMDWF84L50-B280×127		品号 P/N	60/040/00221		

产品说明书 Product Specification

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

ERP2026标准	ERP2026 Standard	N	64
ERP2026实测值	ERP2026 Measured	N	65.1 (A,static)
转速	Speed	r/min	2310
输入功率	Power input	W	422
静压	Static pressure	Pa	481
静压效率	Static pressure EFF	%	43.44

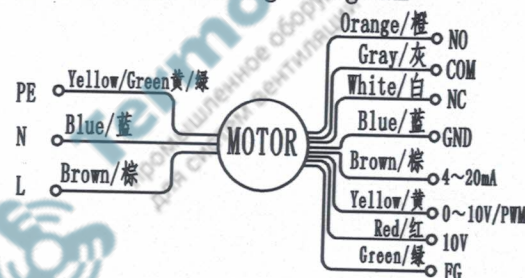
技术数据/Technical data

净重	Net weight	/Kg
直径	Size	φ280
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	7
旋转方向	Direction of rotation	逆时针 (从引线端看) Counter 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	-40℃~+80℃
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	CE
防护等级	Type of protection	IP54
风机保护方式	Type protection of the fan	限流、堵转、软启动、过温保护 Current limitation, Stall protection, Soft start protection, Overheating protection.

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

NO.	Signal 信号	Assignment/Function 分配/功能	NO.	Signal 信号	Assignment/Function 分配/功能
PE	PE (黄/绿) Yellow/Green	Protect earthing, ground 接地线, PE线		GND	interface P2 for signal control, ground
	N	AC power in, Neutral N pole		Blue/蓝	接口P2控制信号地线
P1	Blue/蓝	交流电输入, 中性线N极		4~20mA/ Brown/棕	Controler input 4.5~20mA. 控制输入4.5~20mA.
	L	AC power in, voltage input 1~198-277V; 50/60Hz	P2	0~10V/PWM Yellow/黄	Controler input 0~10V DC/PWM 控制输入0~10V DC/PWM
	Brown/棕	交流电输入, 供电电压1~198-277V; 50/60Hz		10V Red/红	Rated voltage output 10VDC (±10% max. 10mA) 固定电压输出10VDC (±10% max. 10mA)
	NO Orange/橙	State relay, alterable state contact; normally turn-on; turn-off when error 状态继电器, 浮动状态触点; 常开; 关闭错误		FG Green/绿	Speed Signal Feedack 速度反馈信号
P2	COM Gray/灰	State relay, universal connectivity; contact rating 250VAC/2A 状态继电器, 公共连接; 连接等级250VAC/2A		/	/
	NC White/白	State relay, normally turn-off; turn-on when error; 状态继电器, 常闭, 解除错误		/	/

接线原理图/Wiring diagram



附件/Other requirements on accessory

- 连接件要求/Annectent parts
连接器/linker (□有/Yes, ■没有/No), 型号为/model: /
端子/terminal (□有/Yes, ■没有/No), 型号为/model: /
- 引线/Leads
电源线/Lead wire: 三芯电缆线 0.5mm²/Three-core cable 0.5mm²
信号线/Control wire: 八芯电缆线 0.5mm²/Eight-core cable 0.5mm²
长度/Length: 2000mm
- 导风圈/Inlet cones
■带/Yes, □不带/No,
□根据销售订单配备/For Sales' request

箱唛/Packaging label

termoflow		CENTRIFUGAL FAN MOTOR	
MODEL: PMDWF84L50-B280×127			
VOLTAGE: 1~230VAC 50/60Hz			
N.W/G.W.: / Kg			
MEAS: 32×32×25 CM			
CL.F WITH TERMINAL BOX			
			20260624

生产日期

分装号: 81

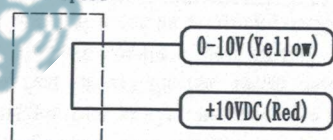
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受控

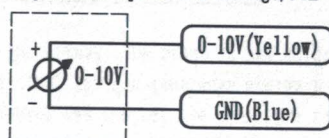
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重量/WG.	Kg	签名/Name	日期/Date
绘图/Drawing	经批准	2026.6.26	
审核/Checked	李永清	2026.6.26	
批准/Approved	苗江波	2026.6.26	
客户确认/Cust.Conf.	宋锦代	2026.6.27	
			产品说明书 Product Specification
			型号/Model PMDWF84L50-B280×127
			品号 P/N 601040100221

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

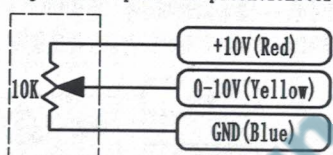
Full speed



Adjustable speed via voltage/PWM



Adjustable speed via potentiometer

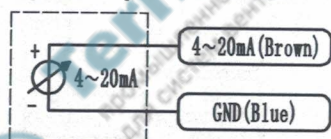


≥9.5V—n=max
1.2V—n=min
≤0.8V—n=0
frequency 1k-10kHz
amplitude 10-12V
duty cycle 0-100%
≥95%PWM—n=max
12%PWM—n=min
≤8%PWM—n=0

- 2、电流调速输入4-20mA(±0.2mA)/DC控制;

Input current for regulating speed 4-20mA(±0.2mA)/DC Control:

Adjustable speed via current



≥20mA—n=max
4.5mA—n=min
≤3.2mA—n=0

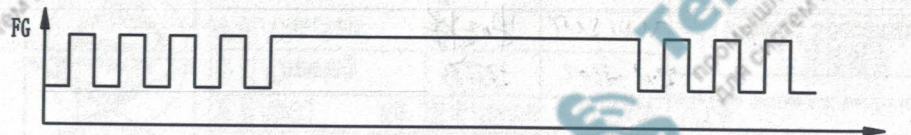
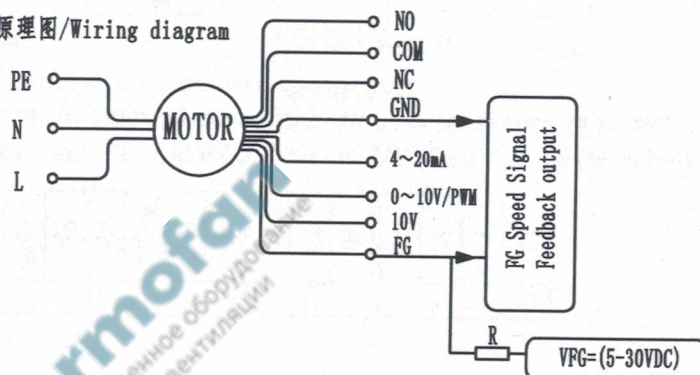
- 3、FG速度反馈信号输出/FG Speed Signal Feedback output;

注: 需要接上拉电阻到+10VDC(接外部电源最高不过超30VDC), VFG=(5-30)VDC, R≥1000*(VFG)Ω

Mark: Needs to increasing resistance to +10VDC (External power Max. 30V/DC),

VFG=(5-30)VDC, R≥1000*(VFG)Ω.

接线原理图/Wiring diagram



当风机运转时, 速度反馈输出占空比为50% 的方波, 电机极数为10, 一转动输出5个方波。

When the fan is in normal operation, the Tacho signal generates square waves of 50% duty cycle. Number of motor poles is 10, the fan outputs 5 pulses per revolution.

- 4、软启动/ Soft start

电机以低转速启动, 以减少对电源的电流冲击。

The motor start at low speed, to reduce current surges being drawn to the power supply.

- 5、必须防止水沿着电缆进入电缆密封套。

Water must be prevented from entering into the cable gland along the cable.

- 6、风扇垂直安装/Fans installer upright:

风扇安装器直立布置电缆时, 确保电缆密封套位于底部。电缆必须一直引出/敷设到底部。(图1)

When routing the cable, make sure the cable glands are located at the bottom. The cables must always be brought out/routed to the bottom. (fig.1)

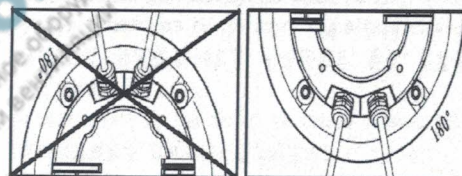


图1/fig.1

分发号: B1
日期: 2026.6.27

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版本/Ver.	A0	Page 3 of 3	☐
重量/WG.	Kg	签名/Name	日期/Date
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审核/Checked	李松	2026.6.26	
批准/Approved	董永	2026.6.26	
客户确认/Cust.Conf.	朱建	2026.6.27	
产品说明书 Product Specification			
型号/Model	PMDWF84L50-B280×127	品号 P/N	601040100221