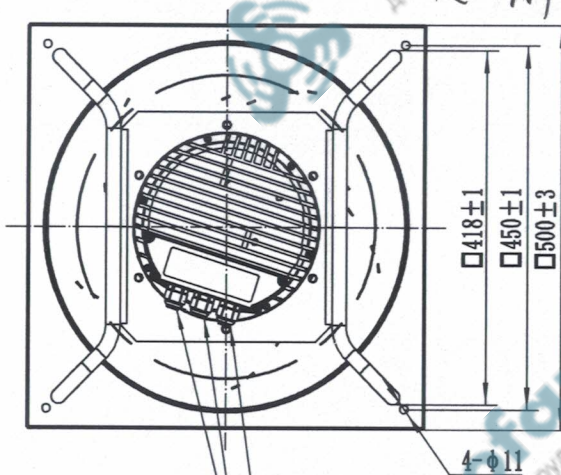
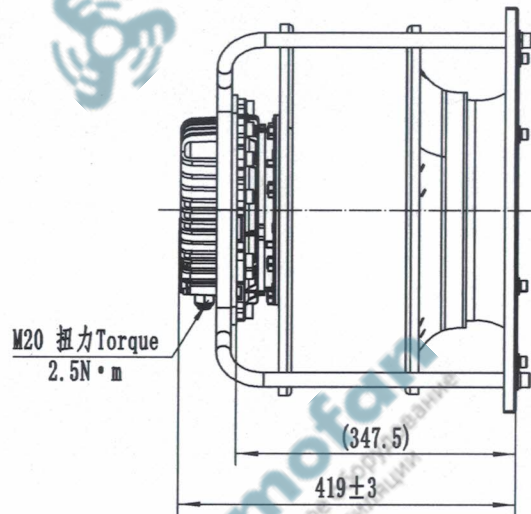


产品图纸/Product drawing



左边2个防水接头适用φ4-φ8电缆线
Two waterproof joints on the left are suitable φ4-φ8 cable lines

右边1个防水接头适用φ8-φ12电缆线
One waterproof joint on the right is suitable φ8-φ12 cable lines

铭牌/Nameplate:

PMSWF150L50-B400×230 U 3~400VAC 50/60Hz
2088W 3.38A 2450/min @0 Pa CL.F IP55
ERP2026 N=64.1 (A,static) 2026/06/24

副唛/Side mark

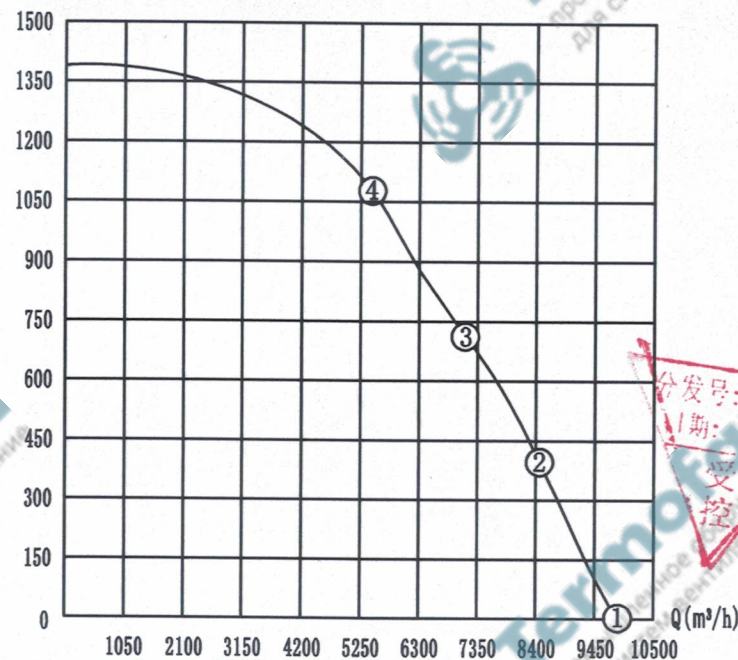
Вентилятор
Модель:PMSWF150L50-B400×230 U
Изготовитель: ZheJiang CIMC MaEr Fan Motor CO.,LTD
Адрес: NO.333 CHUANGYE ROAD,CHANGAN TOWN,HAINING CITY,ZHEJIANG,CHINA
Товарный знак: MAER
Сделано: КНР
Произведено: 2026

自由状态测试数据/Free state test data:

Voltage	Frequency	Power input	Current input	Speed
(VAC) ±5%	(Hz)	(W) ±10%	(A) ±10%	(r/min) ±10%
3~400	50/60	2164	3.55	2450

性能曲线/Performance curve

Psf (Pa)



注: 风机数据为配400导风圈, 换算到标准大气压20℃时的性能。

Note: The fan data is matched with the performance of the standard 400 full square nozzle, which is converted to the standard atmospheric pressure of 20 ° C.

性能参数/Measured values

	静压 Pfs	电流 Current input	功率 Current input	转速 Speed	流量 Air flow	备注 Note
	(Pa)	(A)	(W)	(r/min)	(m³/h)	
①	0	3.38	2088	2450	9867	
②	392	4.05	2474	2450	8482	
③	711	4.48	2755	2450	7150	
④	1075	4.70	2935	2450	5470	MAX. EFF

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重量/WG.	Kg		李永贵	2026.6.25
绘图/Drawing			李永贵	2026.6.25
审核/Checked			李永贵	2026.6.25
批准/Approved			李永贵	2026.6.25
客户确认/Cust.Conf.			李永贵	2026.6.25

产品说明书 Product Specification

型号/Model	PMSWF150L50-B400×230 U
品号/P/N	62040100140-1

技术条件/Technical conditions

1. 本产品标准和安规要求: GB 12350和JB/T 10563。
Requirement of production standard and safety regulations: GB 12350 and 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2450±10%/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 2450±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, 环境温度为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. 出线条件: 推荐引出线规格, 主电源线直径φ8-φ12mm, 不小于1.0mm², 信号线φ4-φ8mm。
Outlet conditions: recommended lead wire specifications, main power cord diameter φ8-φ12mm, not less than 1.0mm², Signal line φ4-φ8mm.

额定数据/Rated data

相数	Phase		3~
额定电压	Rated voltage	VAC	400
额定电压范围	Rated voltage range	VAC	380~480
频率	Frequency	Hz	50/60

ERP2026标准	ERP2026 Standard	N	64
ERP2026实测值	ERP2026 Measured	N	64.1(A,static)
转速	Speed	r/min	2450
输入功率	Power input	W	2935
静压	Static pressure	Pa	1075
静压效率	Static pressure EFF	%	55.65

技术数据/Technical data

净重	Net weight	/
直径	Size	Φ 460
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	铝/Aluminum
叶片数量	Number of blades	6
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	IP55
风机保护方式	Type protection of the fan	限流、堵转、软启动、缺相故障、过温 保护、过/欠压保护 Current limitation, Stall protection, Soft start protection, Open phase protection, Overheating protection, Over/Under voltage 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	Protect earthing, ground 接地线, PE线	RSA	RSA	Bus RS485; RSA; MODBUS RTU RS485总线连接; RSA; MODBUS通讯协议RTU方式
	L3	AC power in, voltage input 3~380-480V; 50/60Hz 交流电输入, 供给电压3~380-480V; 50/60Hz	RSB	RSB	Bus RS485; RSB; MODBUS RTU RS485总线连接; RSB; MODBUS通讯协议RTU方式
P1	L2	AC power in, voltage input 3~380-480V; 50/60Hz 交流电输入, 供给电压3~380-480V; 50/60Hz	GND	GND	interface P3 for signal control, ground 接口P3控制信号地线
	L1	AC power in, voltage input 3~380-480V; 50/60Hz 交流电输入, 供给电压3~380-480V; 50/60Hz	Ain1 U	Ain1 U	Controler input 0~10VDC/PWM控制输入0~10VDC/PWM
	NC	State relay, normally turn-off; turn-on when error; 状态继电器, 常闭; 接触错误	4~20mA	4~20mA	Analogue Control input 4~20mA/ 控制输入4~20mA
P2	COM	State relay, universal connectivity; contact rating 250VAC/2A 状态继电器, 公共连接; 连接等级250VAC/2A	20V	20V	Rated voltage output 20VDC (±10% max. 50mA) 固定电压输出20VDC (±10% max. 50mA)
	NO	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	10V	10V	Rated voltage output 10VDC (±10% max. 10mA) 固定电压输出10VDC (±10% max. 10mA)
			Din1	Din1	Connection of Digital input 1 enabling of electronics enabling; /数字字输入端1电子设备的接通; opening pin or applied voltage 5-50V DC; 接通: 管脚为开路或者所施加的电压为5到50VDC; disabling: bridge to GND or applied voltage<1V DC 截止: 接地桥接或者所施加的电压<1VDC.
			FG	FG	Speed Signal Feedack/速度反馈信号

接线原理图/Wiring diagram

P3											P2			P1			PE	
RSA	RSB	RSA	RSB	GND	Ain1 U	4~20mA	20V	10V	Din1	GND	FG	NC	COM	NO	L3	L2	L1	PE

附件/Other requirements on accessory

- 1、导风圈/ Inlet cones
■带/ Yes, □不带/ No.
- 2、蜗壳/ Scroll housing
(□有/YES, ■没有/NO) 蜗壳材料为/Material: /
- 3、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:/
- 4、引线/Leads
电源线/Lead wire: /
信号线/Control wire: /
长度/Length: /

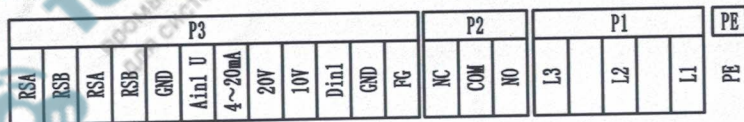
箱唛/Packaging label

termoflow CENTRIFUGAL FAN MOTOR	
MODEL: PMSWF150L50-B400×230 U	
VOLTAGE: 3~400VAC 50/60Hz	
N.W/G.W.: / Kg	
MEAS: 52×52×47.5 CM	
CL.F WITH TERMINAL BOX	
20260624	

生产日期

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重量/WG.	Kg	签名/Name	日期/Date	
绘图/Drawing		日期/Date	2026.6.24	
审核/Checked		日期/Date	2026.6.25	
批准/Approved		日期/Date	2026.6.26	
客户确认/Cust.Conf.		日期/Date	2026.6.27	
产品说明书 Product Specification				
型号/Model	PMSWF150L50-B400×230 U	品号 P/N	601040100/40-1	

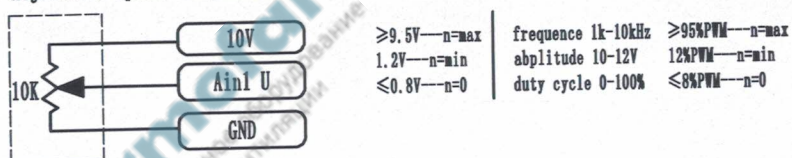
接线示意图/Wiring diagram



- 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 potentiometer



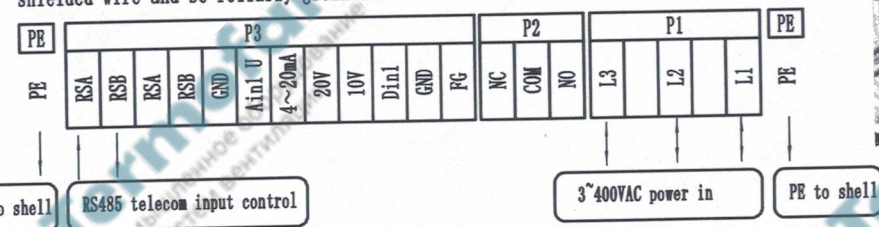
- 2、电流调速输入4-20mA(±0.2mA)/DC控制;

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



- 3、RS485通信输入控制/RS485 telecommunication input control:

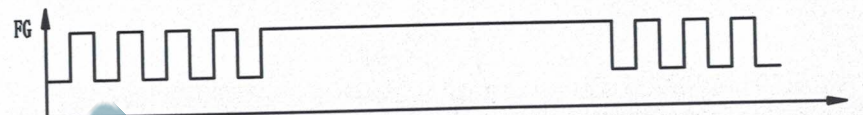
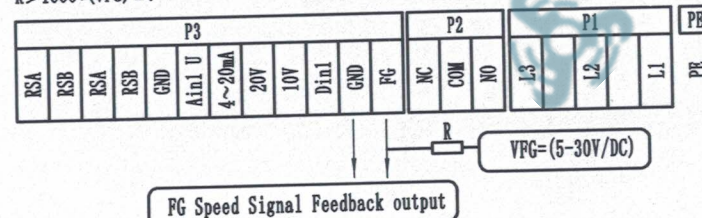
通过RS485通信, 使用MODBUS协议, 一台上位机可同时控制多台风机; 上位机可控制风机的启动、停止, 设置风机转速; 同时风机向上位机反馈状态信息; 转速或故障状态。通信信号线需用双绞屏蔽线, 并且可靠接地。
Through RS485 communication and using MODBUS protocol, one host computer can control multiple fans at the same time; the host computer can control the start and stop of the fans and set the fan speed; at the same time, the fan feedbacks status information to the host computer; speed or fault status. The signal line needs to use twisted pair shielded wire and be reliably grounded.



- 4、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), $VFG = (5-30) VDC$, $R \geq 1000 \cdot (VFG) \Omega$

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



当风机运行时, 速度反馈输出占空比为50% 的方波, 电机的极对数为5, 每转输出5个方波。

When the fan is in normal operation, the Tacho signal generates square waves of 50% duty cycle. The motor has 5 polar couples, the fan outputs 5 pulses per revolution.

- 5、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.

- 6、电机过温保护

当电机IPM模块温度超过105℃后, 电机保护后, 停机。当温度下降到85℃后, 电机自动恢复运行状态。

When the temperature of the motor IPM module exceeds 105 ° C, the motor will stop after protection. When the temperature drops to 85 ° C, the motor automatically resumes running.

- 7、风扇水平安装/Fans installed lying flat:

确保电缆以U形布线。(图1) Make sure that the cable is routed in a U-ring. (Figure 1)

- 8、风扇垂直安装/Fans installer upright:

风扇安装器垂直布置电缆时, 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2)

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.2)

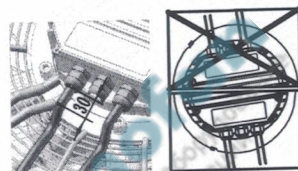


图1/fig.1

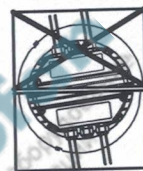


图2/fig.2

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重量/WG.	Kg	签名/Name	日期/Date	Product Specification
绘图/Drawing		2026-6-24		
审核/Checked		2026-6-25		
批准/Approved		2026-6-26		
客户确认/Cust.Conf.		2026-6-27		
型号/Model	PMSWF150L50-B400X230 U	品号 P/N	601040100140-1	