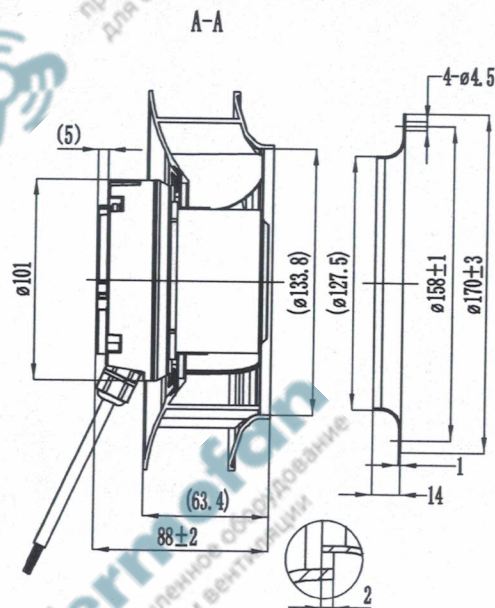


产品图纸/Product drawing



铭牌/Nameplate:

PMDWF59L20-B190x62 1~230VAC 50/60Hz
178W 1.33A 4300r/min @0 Pa CL.F IP54
ERP2026 N=66.1 (A,static) 2026/06/24

副唛/Side mark

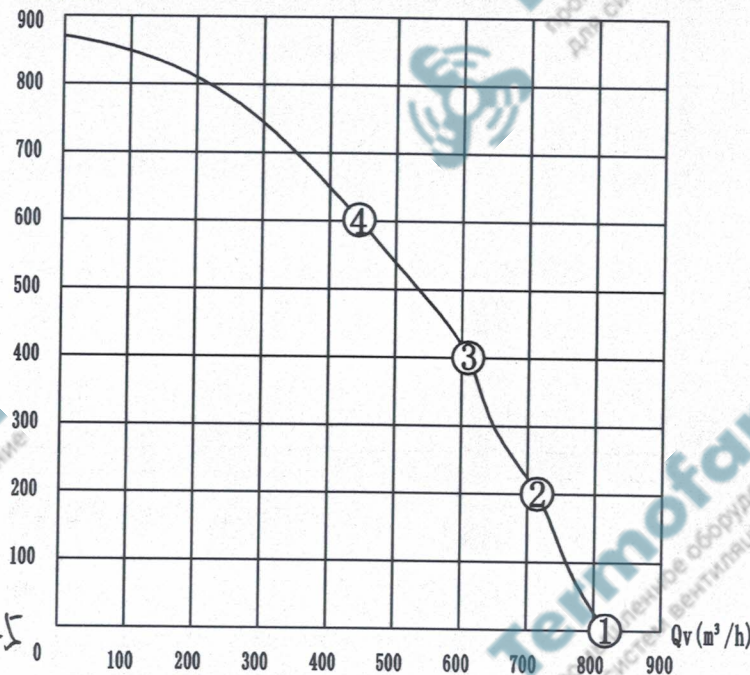
Вентилятор
Модель: PMDWF59L20-B190x62
Изготовитель: ZheJiang CIMC MaEr Fan Motor CO., LTD
Адрес: NO.333 CHUANGYE ROAD, CHANGAN TOWN, HAINING CITY, ZHEJIANG, CHINA
Товарный знак: MAER
Сделано: КНР
Произведено: 2026

自由状态测试数据/Free state test data:

Voltage	Frequency	Power input	Current input	Speed
(VAC) ±7%	(Hz)	(W) ±10%	(A) ±10%	(r/min) ±10%
1~230	50/60	186	1.38	4300

性能曲线/Performance curve

Pfs (Pa)



注: 风机数据为配190号风圈, 换算到标准大气压20℃时的性能。

Note: Fan data is converted to standard atmospheric pressure at 20° C, with MaEr 190 wall plate test performance

性能参数/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	1.33	178	4300	818	
②	200	1.39	188	4300	715	
③	400	1.43	192	4300	610	
④	601	1.45	196	4300	445	MAX. EFF

ERP 西己为已审核, 黄观强 2026-6-25

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4300±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 4300±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

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批准/Approved			2026-6-25				
客户确认/Cust.Conf.			2026-6-27				
型号/Model			品号 P/N				

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	66.1 (A,static)
转速	Speed	r/min	4300
输入功率	Power input	W	196
静压	Static pressure	Pa	601
静压效率	Static pressure EFF	%	37.90

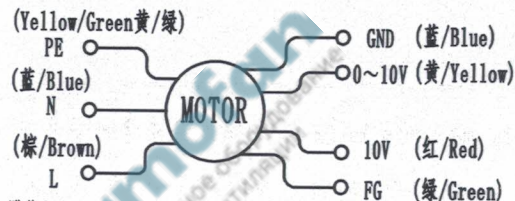
技术数据/Technical data

净重	Net weight	/
直径	Size	φ190
电机表面	Surface of motor	镀黑/Coated in black
机壳材料	Material of electronics housing	Plastic magnet
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) Counterclockwise, 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、 过/欠压保护 Current limitation, Stall protection, Soft start protection, Overheating protection, Over/Under voltage protection

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/绿 Yellow/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.

接线原理图/Wiring diagram



附件/Other requirements on accessory

1. 导风圈/ Inlet cones

■带/ Yes, □不带/ No, □根据销售订单配备/ For Sales' request.

2. 连接件要求/Annetent 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:/

3. 引线/Leads

电源线/Lead wire: 三芯电缆线0.5mm²/Three-core cable 0.5mm²

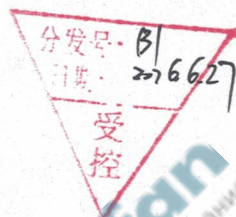
信号线/Control wire: 四芯电缆线, UL2661, 22AWG/ Four-core cable, UL2661, 22AWG

长度/Length: 1000mm

箱唛/Packaging label

termoflow	CENTRIFUGAL FAN MOTOR
MODEL: PMDWF59L20-B190×62	
VOLTAGE: 1~230VAC 50/60Hz	
N.W/G.W.: / Kg	
MEAS: 20.5×20.5×15 CM	
CL.F WITH TERMINAL BOX	
20260624	

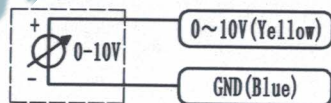
生产日期



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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%);

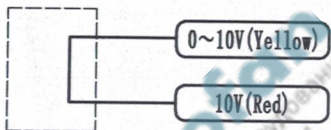
Adjustable speed via voltage/PWM
电压/PWM调速



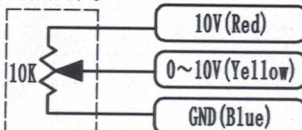
≥9.5V—n=max
1.2V—n=min
≤0.8V—n=0

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

Full speed
全速



Adjustable speed via potentiometer
电位器调速



3. 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.

4. 必须防止水沿着电缆线进入电缆密封套。

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

5. 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

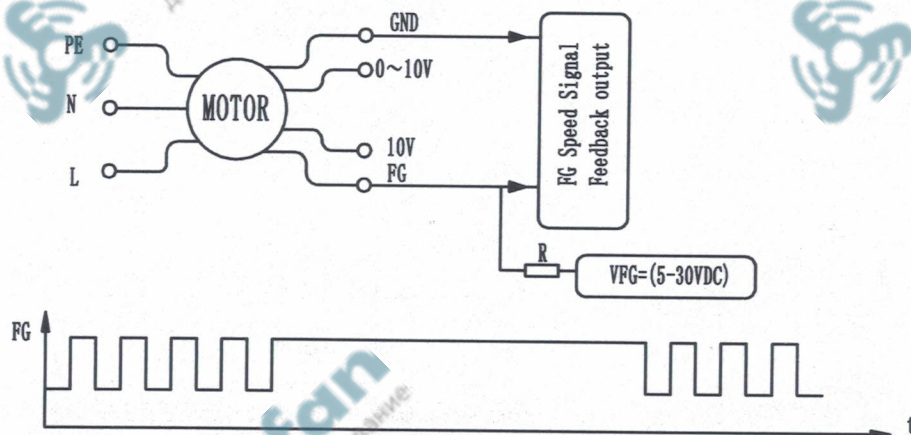
2. FG速度反馈信号输出/FG Speed Signal Feedback output::

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

Mark: Needs to increasing resistance to +10V/DC (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 number of pole pairs of the motor is 5, the fan outputs 1 pulses per revolution.



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