

MZD-1 R22□A

Single-phase intelligent rectifier regulator module

单相全隔离智能整流调压模块



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产品特点 Product Characteristics

- 输入控制端与强电主回路之间为全隔离设计，绝缘介质 > 2000VAC。
- 模块采用优质安全的电子元件、SMT贴片工艺、大功率晶闸管芯片和低热阻铜瓷键合(DCB)底板，内置同步变压器组成一体化结构，环氧树脂灌封、体积小、性能稳定、可靠性高。
- 具有线性补偿功能，输出为线性特性曲线，内置RC阻容吸收谐波干扰小，抗干扰能力强。
- 模块全面兼容0-5VDC、1-5VDC、0-10VDC、2-10VDC、0-10mA、4-20mA等自动输入信号，也可用2-10k/2w电位器手动控制，输入调节范围宽输出调节精度高。
- 设计有绿色LED电源指示灯和红色LED输出调节量指示灯，方便用户观察工作状态。
- The input control terminal and the main circuit of the strong current are fully isolated, and the insulating medium is > 2000VAC.
- The module adopts high quality and safe electronic components, SMT technology, high power thyristor chip and low thermal resistance copper porcelain bonding (DCB) base plate, built-in synchronous transformer to form an integrated structure, epoxy resin pot-seal, small size, stable performance and high reliability.
- With linear compensation function, the output is linear characteristic curve, built-in RC resistance and capacitance absorption harmonic interference is small, strong anti-interference ability.
- The module is fully compatible with 0-5VDC, 1-5VDC, 0-10VDC, 2-10VDC, 0-10mA, 4-20mA and other automatic input signals, and can also be manually controlled by 2-10k/2w potentiometer, with wide input adjustment range and high output adjustment accuracy.
- Designed with green LED power indicator and red LED output adjustment indicator, convenient for users to observe the working state.

主要技术参数 Main Technical Parameters

项目 Item	参数 Parameters
输出电压变化范围 Output Voltage Range	0~220VDC
输出负载电流 Output Load Current	30A, 60A, 100A, 150A, 200A
输入控制方式 Input Control Methods	R: 10K 电位器 Potentiometer V: 0-5VDC L: 4-20mA
输出电压 Output Voltage	0.9V _{IN}
介质耐压 Dielectric Strength	2500VAC
绝缘电阻 Insulation Resistance	1000MΩ/500VDC
环境温度 Ambient Temperature	-25~75℃
安装方式 Mounting Methods	螺栓固定 Bolt fixed
重量 Weight	480g

注意事项 Matters needing attention

- 根据负载功率大小，应选择不同电流余量，功率越大，电流余量越大，一般选择模块的电流容量是负载电流的2-4倍；
- 过压保护：输出端并接续流二极管或压敏电阻，取值为实际负载电压的1.7-1.9倍；
- 过流保护：主回路串接快速熔断器或断路器，取值为实际负载电流的1.5倍；
- 散热要求：负载10A以上，必须安装散热器，40A以上加风扇强冷或水冷。
- According to the load power size, should choose different current margin, the larger the power, the larger the current margin, the general selection module current capacity is 2-4 times of the load current;
- Overvoltage protection: the output end and connected to the current diode or varistor, the value is 1.7-1.9 times the actual load voltage;
- Overcurrent protection: the main circuit is connected with a fast fuse or break switch, the value is 1.5 times the actual load current;
- Heat dissipation requirements: The load is more than 10A, must be installed radiator, more than 40A plus fan strong cooling or water cooling.

外形及安装尺寸 / 接线图 Outline and mounting dimensions/wiring diagram (mm)

