

MXD3500ZF / MXA3500ZF

Industrial grade solid state relay

工业级固态继电器



MXCN 铭新

产品特点 Product Characteristics

- 采用两只单相可控硅芯片，反并联组成输出。
- 真空+充氢保护焊接技术。
- 输入信号与TTL和COMS数字逻辑电路兼容。
- 输入回路与输出回路之间光隔离。
- 发光二极管指示工作状态。
- 输入端-输出端之间隔离耐压 $\geq 2500V$ 。
- 较高性价比，应用广泛，高信赖度的通用产品。
- 100%负载电流老化试验，通过欧共体CE认证，国内3C认证。
- The output is composed of two single-phase thyristor chips in inverse parallel.
- Vacuum + hydrogen filled protection welding technology.
- The input signal is compatible with TTL and COMS digital logic circuits.
- Optical isolation between input loop and output loop.
- Leds indicate working status.
- Voltage isolation between input and output $\geq 2500V$.
- A versatile product with high cost performance, wide application and high reliability.
- 100% load current aging test, through the European Community CE certification, 3C certification.

主要技术参数 Main Technical Parameters

项目 Item	参数 Parameters	
产品类别 Product Category	MXD3500ZF	MXA3500ZF
负载电流 Load Current	500A	
负载电压 Load Voltage	380VAC, 480VAC, 660VAC	
控制电压 Control Voltage	4-32VDC	80-250VAC
控制电流 Control Current	DC 5-15mA	AC $\leq 15mA$
通态压降 On Voltage	$\leq 1.5V$	
通态漏电流 On-state leakage current	$\leq 2mA$	
断态时间 On-off Time	$\leq 10ms$	
介质耐压 Dielectric Strength	2500VAC	
绝缘电阻 Insulation Resistance	1000M Ω / 500VDC	
环境温度 Ambient Temperature	$-30\sim+75^{\circ}C$	
安置方式 Mounting Methods	螺栓固定 Bolt fixed	
工作指示 The work instructions	LED	
重量 Weight	850g	

注意事项 Matters needing attention

- 负载电流高于5A时必须使用散热器，固态继电器底板与散热器安装面之间涂上导热硅脂，40A以上加风扇强冷或水冷。
- 使用在感性负载时，需要在输出端接入双向稳压二极管或压敏电阻(MOV)。压敏电阻推荐取额定电压的1.6-1.9倍。
- 为了避免固态继电器的温升超过允许值，两只或多只固态继电器并排安装时，应留有适当的间距。
- 当使用多只固态继共用一个控制电源时，输入端即可以串联使用也可以并联使用。
- When the load current is higher than 5A, the heat sink must be used. Apply thermal grease between the solid state relay bottom plate and the heat sink mounting surface, and add strong fan cooling or water cooling above 40A.
- When used in inductive loads, it is necessary to connect a bidirectional voltage regulator diode or varistor (MOV) at the output end. The varistor is recommended to be 1.6-1.9 times the rated voltage.
- In order to avoid the temperature rise of the solid-state relay exceeding the allowable value, two or more solid-state relays should be installed side by side with appropriate spacing.
- When multiple solid-state relays are used to share a control power supply, the inputs can be used in series or in parallel.

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

