



# Relays & Solenoids

## Surface Mounting Power DC To AC Solid State Relays

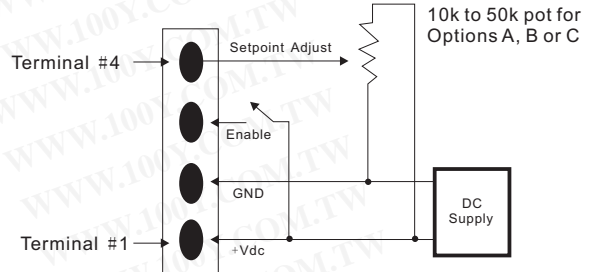
Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



The Crydom MCPC series of Proportional Controllers incorporate a complete phase-fired logic system and Solid State Relay in one small industry standard package. The MCPC uses microprocess or controlled logic, accepts a wide range input logic power supply, provides an output load status indicator, and five modes of analog control input along with an Enable/Disable control.

The MCPC does not require any calibration adjustment, is optically isolated to 4000Vrms, includes an internal snubber network, and is available in load ratings up to 90A and 530Vac. The Crydom MCPC series is particularly suited to applications such as tungsten lamp dimming, vibratory feeders, universal motor control, and resistive heating element control.

**Wiring Example**  
(for Options A, B or C using an external potentiometer)



### MECHANICAL SPECIFICATIONS

Weight: (typical)	3.0 oz. (86.5g)
Encapsulation	Thermally Conductive Epoxy
Terminals - Power Control	Screws and Saddle Clamps Furnished, Unmounted Barrier Strip Screw Terminals

Part No.	Product No.	Manufacturer	Description	Vin drive voltage	Irms Load current	Vrms Load voltage	Switching Type
47105	MCPC4890D	Crydom	DC-AC RELAY	8-32V	25-90A	300-530V	AC

- SCR Output
- Ultra High Surge Rating
- Crydom's Patented Design

Crydom's family of SPST-NO relays achieves the highest power switching capability in a PC-mounted air-cooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. Models are available to switch up to 660 Vrms with AC or DC control, and either zero-crossor random turn-on ("R") switching versions. Pinout is compatible with Series6 and OAC type I/O modules.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

### GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10 <sup>9</sup> Ohm
Max. Capacitance Input/Output	10 pF
Ambient Operating Temperature Range	-40 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

### MECHANICAL SPECIFICATIONS

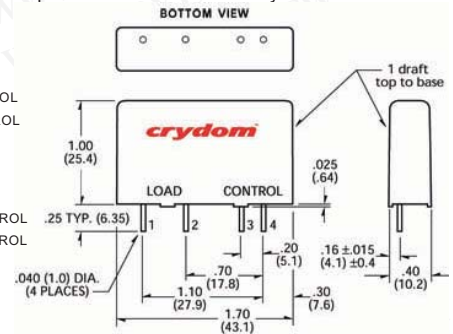
Weight: (typical)	0.7 oz. (20g)
Encapsulation:	Thermally Conductive Epoxy

#### AC CONTROL

- PIN 1: AC LOAD
- PIN 2: AC LOAD
- PIN 3: AC CONTROL
- PIN 4: AC CONTROL

#### DC CONTROL

- PIN 1: AC LOAD
- PIN 2: AC LOAD
- PIN 3: +DC CONTROL
- PIN 4: -DC CONTROL



All dimensions are in inches (millimeters)

Part No.	Product No.	Manufacturer	Description	Vin drive voltage	Irms Load current	Vrms Load voltage	Switching Type
36266	MCX240D5	Crydom	Surface Mounting Power DC-AC SSR	3-15 Volts DC	5 Amps RMS	280 Volts RMS	AC
36271	MCX380D5	Crydom	Surface Mounting Power DC-AC SSR	4-15 Volts DC	5 Amps RMS	660 Volts RMS	AC
36267	MCX480D5	Crydom	Surface Mounting Power DC-AC SSR	4-15 Volts DC	5 Amps RMS	660 Volts RMS	AC
36272	MCXE240D5	Crydom	Surface Mounting Power DC-AC SSR	15-32 Volts DC	5 Amps RMS	280 Volts RMS	AC



Opto 22's Printed Circuit Series allows OEMs to easily deploy solid state relays on printed circuit boards. Two unique packages are available, both of which will switch loads up to fouramps.

#### MP Series

The MP Series packaging is designed with a minimum footprint to allow maximum relay density on the printed circuit board.

#### P Series

The P Series power relays provide low-profile for 0.5-inch (12.7mm) center mounting on printed circuit boards.

Part No.	Product No.	Manufacturer	Description	Irms Load current	Vrms Load voltage
31081	MP120D2	OPTO22	Surface Mounting Power DC-AC SSR	2A	120V
31082	MP120D4	OPTO22	Surface Mounting Power DC-AC SSR	4A	120V
31083	MP240D2	OPTO22	Surface Mounting Power DC-AC SSR	2A	240V
31084	MP240D4	OPTO22	Surface Mounting Power DC-AC SSR Solid-state Relay	4A	240V
31085	MP380D4	OPTO22	Surface Mounting Power DC-AC SSR Solid-state Relay	4A	380V

