

## **Refrigeration**

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Crydom Solid State Relays (SSRs) are used in the refrigeration industry in a wide variety of applications. Since Crydom SSRs do not have mechanical contacts, the arcing, pitting, and the short product life associated with electromechanical relays is eliminated.

Beside the obvious use to handle large inrush surges seen during compressor starting, Crydom SSRs are used to switch condensing fans, evaporator blowers, reheating resistance grids for sophisticated temperature/humidity systems, and damper motors and valves.

In commercial/industrial freezers, Crydom SSR's are used to control condensation on doors and seals by switching integral heating elements when needed. In the low voltage control end of refrigeration systems, PCB mount and SIP versions of both AC and DC output Crydom SSR's are commonly used.

The recent introduction of the Crydom MCTC series of temperature controllers eliminated the need to have a separate control and power relay. This all in one solution includes both a controller and a Crydom SSR in one package, with up to 90 amp capacity at 530 Vac. In addition, when the Crydom MCTC is specified with the refrigeration output option, a built-in short-cycle delay protects compressors without the need for an additional external time-delay relay.

### **Related Product Families**

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#### **MCTC**

25-90Amp - 120/480 Vac - AC OUTPUT.

#### **A12/D24**

SCR output • 10-90Amp • 120/240 Vrms • AC Switching • AC/DC control • Crydom's signature relay family also known as the Series 1 product family.

#### **CW48**

SCR output • 10-125Amp • 120/240 Vrms • AC Switching • AC/DC control • Finger-proof cover • Snubber and snubberless versions • Status indicating LED • Improved thermal ratings and lower power dissipation.

#### **CW48**

SCR output • 10-125Amp • 48-660 Vrms • AC Switching • AC/DC control • Finger-proof cover • Status indicating LED • Snubber and snubberless versions • Improved thermal ratings and lower power dissipation.

#### **D1D/D2D/D4D/D5D**

MOSFET output • 7-40Amp • 100/200/400/500 VDC models • DC Switching • DC control • Easily paralleled for high current, high voltage applications.

#### **DPA**

SCR output • 1.0Amp • 120/240 Vrms • 16 PIN DIP Package • Current and voltage control versions.

#### **LC**

Triac Output • 1.5Amp • 12-280 Vrms • AC Switching • Mini-SIP • DC controlled • Ideal for low cost solutions.

#### **CX, CXE**

SCR output • 5Amp • 240, 380, 480 Vrms - AC Switching • SIP mount • AC/DC control • Ideal for replacing electromechanical relays.

#### **CMX**

MOSFET output • 3-10Amp • 0-60, 0-100, 0-200 VDC • DC Switching • SIP mount • DC control • Extra low on-state resistance.

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