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Why Crydom?

- The market innovator & leader since 1970
- Fully staffed technical team to support each customer’s specific requirements!
- Extensive design capabilities for adaptations and custom products!
- Design and development team focused solely on solid-state relays!
- World wide representation!
- All products manufactured to national and/or international agency standards (UL, CSA, VDE, TUV)!

A name synonymous with service, quality, and reliability…

Consult website for detailed product specifications.  www.crydom.com
4 Basic Types of SSR Packages

Panel Mount

Din Rail Mount

PCB Mount

Plug-In Mount

Consult website for detailed product specifications. www.crydom.com
Crydom AC Output Panel Mount SSRs

- Crydom has a broad offering of AC output Panel Mount SSRs including

**Series 1 & HA/HD Series**
- “General Purpose”
- Ratings from 10 to 125 Amp
- Back-to-back SCR output
- “Ultra-low” input current draw
- Normally closed output available

**Series H1 (H12/H16)**
- Ratings from 25 to 125 Amp
- Back-to-back SCR output
- High Voltage

**CW (IP20) & CSW (IP00) Series**
- Heavy Duty SSR
- Ratings from 10 to 125 Amp
- Back-to-back SCR output
- Universal AC/DC input

**Series CL**
- Economical SSR
- Ratings of 5 or 10 Amp
- Triac based construction

**EL Series**
- Mini-puck SSR
- Ratings of 5, 10 or 20 Amp
- Back-to-back SCR output

**EZ Series**
- Low profile SSR
- Ratings from 5 to 18 Amp
- Back-to-back SCR output

Consult website for detailed product specifications. www.crydom.com
Crydom AC Output Panel Mount Control SSRs

MCBC Series
• Burst fire controller
• Ratings from 25 to 90 Amp

MCPC Series
• Phase angle controller
• Ratings from 25 to 90 Amp

MCTC Series
• Temperature controller
• Ratings from 25 to 90 Amp

MCS Series
• Soft Start/Soft Stop controller
• Ratings from 25 to 90 Amp

PCV Series
• Proportional (phase angle) controller
• Ratings from 15 to 90 Amp

LPCV Series
• Linear proportional (phase angle) controller
• Ratings from 15 to 110 Amp

RPC Series
• Proportional (phase angle controller
• Ratings from 15 to 40 Amp

SMR-6 Series
• SSR with built-in current monitoring & diagnostics circuit
• Ratings from 25 to 90 Amp

Consult website for detailed product specifications. www.crydom.com
Crydom AC Output Panel Mount Dual SSRs

**Evolution Dual Series**
- Independently controlled dual output SSR
- Ratings of 25 & 50 Amps @ 24-280 VAC or 48-600 VAC
- Optional IP20 cover
- 4 Input connector options
- Heavy Duty

**Series 1 Duals**
- Independently controlled dual output SSR
- Ratings of 25 & 40 Amps @ 24-280 VAC or 48-530 VAC
- Back-to-back SCR output
- Quick Connect termination; 120/240 V models include pin control termination
- General Purpose

Consult website for detailed product specifications. www.crydom.com
Crydom AC Output Panel Mount Solid State Contactors

53TP Series
- 3 Phase SSC with ratings of 25 & 50 Amp per phase @ 48-530 VAC
- Up to 7.5 HP / 5.5 kW Motor Controller ratings
- Back-to-back SCR output
- Optional IP20 cover

53RV Series
- Motor Reversing Contactor with ratings of 25 & 50 Amp per phase @ 48-530 VAC
- Up to 7.5 HP / 5.5 kW Motor Controller ratings
- Back-to-back SCR output
- Built-in interlock circuit

Consult website for detailed product specifications.  www.crydom.com
Crydom DC Output Panel Mount SSRs

**DC60 Series**
- Economical bipolar transistor output SSR
- Ratings up to 7 Amp
- AC input available
- Normally closed output available

**DC Series**
- Ratings up to 100 Amp and up to 400 VDC
- **High speed** trigger circuit
- Optional IP20 cover
- AC input available

**D06D Series**
- Ratings from 60 to 100 Amp
- Low impedance MOSFET output

**EL Series**
- **Mini-puck SSR**
- Ratings of 5 & 10 Amp
- Low impedance MOSFET output

**SSC Series**
- Ratings of 25 Amp @ up to 1k VDC
- **High voltage** IGBT output

**1-DC Series**
- Ratings up to 100 Amp
- Low impedance MOSFET output

**LVD Series**
- **Low voltage disconnect**
- Ratings up to 100 Amp @ 3-75 VDC

Consult website for detailed product specifications. www.crydom.com
Crydom DC Output Panel Mount Solid State Contactors

DP Series
- Motor Reversing Contactor with ratings up to 60 Amps @ 48 VDC
- Low impedance MOSFET switches in an H-Bridge
- Control features to combine Soft Start/Ramp Up, Soft Stop/Ramp Down & Braking functions on each polarity

HDC Series
- High Current Solid State Contactor with ratings up to 160 Amps @ 72 VDC
- Low power dissipation Power FETs coupled with 2.5 KV optical coupling
- Includes high speed switching circuit which minimizes switching losses and permits higher frequency PWM operation

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Crydom AC Output DIN Rail Mount SSRs

- Crydom has a broad offering of AC output DIN Rail Mount SSRs including

**DRA-CN Series**
- Thin 6.2 mm SSR
- Ratings of 2 Amp @ 240 VAC
- LED indicator

**SeriesOne DR**
- 11 mm (3 & 6 Amp) or 18 mm (12 Amp) wide SSR
- Operating Voltage of 24-280 VAC and 48-600 VAC
- Back-to-back SCR output

**DRA Series**
- DIN Rail mount relay assemblies using SIP SSRs
- Ratings from 3 to 8 Amp
- 1 & 4 channels packages

**CKR Series**
- Slim 22.5 mm package
- Ratings from 10 to 30 Amps @ 24-660 VAC
- Back-to-back SCR output

Consult website for detailed product specifications. www.crydom.com
Crydom AC Output DIN Rail Mount SSRs

CMR Series
- Ratings from 35 to 65 Amp @ 24-660 VAC
- Back-to-back SCR output

SeriesOne DR Timer
- 11 mm (6 Amp) wide SSR with 8 Industry standard functions
- Operating Voltage of 280 VAC
- Dual SCR output

SeriesOne DR Dual
- 18 mm wide Dual SSR
- 2 independent channels (6 Amp)
- Operating voltage of 24-280 VAC and 48-600 VAC
- Back-to-back SCR output

Consult website for detailed product specifications. www.crydom.com
Crydom AC Output DIN Rail Mount Solid State Contactors

DRA3P Series
- 3 Phase Solid State Contactor
- Ratings of 2.4 & 4.2 Amp @ 48-510 VAC
- No heat sink required
- Back-to-back SCR output

CTR Series
- 3 Phase Solid State Contactor
- Ratings of 25 Amp per phase @ 600 VAC
- Back-to-back SCR output

DRA3R Series
- Motor Reversing Solid State Contactor
- Ratings of 2.4 & 4.2 Amp @ 48-510 VAC
- No heat sink required
- Back-to-back SCR output

Consult website for detailed product specifications. www.crydom.com
Crydom DC Output DIN Rail Mount SSRs

**DRA-CN Series**
- Thin 6.2 mm wide SSR
- Ratings of 3.5 Amp @ 24 VDC or 100 mAmp @ 48 VDC
- LED indicator

**DRA Series**
- DIN Rail mountable relay assemblies using SIP SSRs
- Ratings from 3 to 8 Amp @ 1-200 VDC
- Slim 10 mm (1 channel) & 54 mm (4 channels) wide packages

**SeriesOne DR**
- 11 mm (3 & 6 Amp) or 18 mm (12 Amp) wide SSR
- Operating Voltage of 1-60 VDC & 1-100 VDC
- MOSFET output

**CKM Series**
- Slim 22.5 mm package
- Ratings from 10 to 30 Amp @ 60 VDC
- Low leakage MOSFET output

**SeriesOne DR Timer**
- 11 mm (6 Amp) wide SSR
- Operating Voltage of 280 VAC
- Dual MOSFET output

Consult website for detailed product specifications. www.crydom.com
DRA4D Series

- DC Motor/Polarity Reversing Solid State Contactor with ratings of 6 & 12 Amp
- Operating Voltage of 1-100 VDC & 1-250 VDC
- No heat sink required
- FET switches in H-Bridge configuration
Crydom AC Output PCB Mount SSRs

**ASO Series**
- Compact design SSR
- Ratings up to 2 Amp @ 12-280 VAC
- Back-to-back SCR output

**LC Series**
- Compact design SSR
- Economical Triac output with ratings up to 2 Amp @ 12-280 VAC

**MP Series**
- SIP Solid State Relay
- Economical Triac output with ratings up to 4 Amp @ 24-280 VAC
- 10 mm plastic housing

**CX Series**
- SIP Solid State Relay
- Ratings up to 5 Amp @ 48-660 VAC
- Back-to-back SCR output

**MCX Series**
- SIP Solid State Relay
- Ratings up to 5 Amp @ 48-660 VAC
- Back-to-back SCR output

**LS Series**
- SIP Solid State Relay
- Ratings up to 12 Amp @ 24-280 VAC with external heat sink
- Back-to-back SCR output

Consult website for detailed product specifications. [www.crydom.com](http://www.crydom.com)
Crydom AC Output PCB Mount SSRs

PF Series
- SIP Solid State Relay
- Ratings up to 10 or 25 Amp @ 48-660 VAC
- Back-to-back SCR output

DPA Series
- DIP Solid State Relay
- Ratings up to 1 Amp @ 20-280 VAC
- Back-to-back SCR output
- Current input or Voltage input available

SPF Series
- SIP Solid State Relay
- Ratings up to 10 or 25 Amp @ 48-660 VAC
- Back-to-back SCR output

SDV Series
- DIP Solid State Relay
- Ratings up to 1.5 Amp @ 12-280 VAC
- Back-to-back SCR output

Consult website for detailed product specifications. www.crydom.com
Crydom DC Output PCB Mount SSRs

**DMO Series**
- Compact design SSR
- Ratings up to 3 Amp @ 60 VDC
- Low impedance MOSFET output

**CMX Series**
- SIP Solid State Relay
- Ratings up to 20 Amp @ 60 VDC, 10 Amp @ 100VDC or 3 Amps @ 200 VDC
- Low impedance MOSFET output

**MP Series**
- SIP Solid State Relay
- Ratings up to 3 Amp @ 60 VDC
- Normally closed version available (suffix “–B”)

Consult website for detailed product specifications. www.crydom.com
Crydom AC Output Plug-In Mount SSRs

CN Series
- Thin SSR suited for high density PCB applications
- Ratings up to 2 Amp @ 24-280 VAC
- Back-to-back SCR output
- Pluggable into standard relay sockets or solderable

ED Series
- Industry standard EMR plug-in package
- Ratings of 3 & 5 Amp @ 24-280 VAC
- Back-to-back SCR output
- Quick Connect termination
- DIN Rail & PCB mountable sockets available

Consult website for detailed product specifications. www.crydom.com
Crydom DC Output Plug-In Mount SSRs

CN Series
- Thin SSR suited for high density PCB applications
- Ratings of 0.1 Amp @ 48 VDC or 3.5 Amp @ 48 VDC
- Pluggable into standard relay sockets or solderable

ED Series
- Industry standard EMR plug-in package
- Ratings of 5 Amp @ 1-48 VDC and 1-80 VDC
- Quick Connect termination
- DIN Rail & PCB mountable sockets available

Consult website for detailed product specifications. www.crydom.com
Panel Mountable (only) Heat Sinks

**HS251**
- 2.5°C/W Thermal resistance
- Panel mountable
- Aluminum with natural finish

**HS072**
- 0.7°C/W Thermal resistance
- Panel mountable
- Aluminum with natural finish

**HS172**
- 1.7°C/W Thermal resistance
- Panel mountable
- Aluminum with natural finish

**HS053**
- 0.5°C/W Thermal resistance
- Panel mountable
- Aluminum with black anodized finish

Consult website for detailed product specifications. www.crydom.com
DIN Rail Mountable (only) Heat Sinks

HS501DR

- 5.0ºC/W Thermal resistance
- DIN Rail mountable
- Steel with yellow zinc surface finish

Consult website for detailed product specifications. www.crydom.com
Panel or DIN Rail Mountable Heat Sinks

HS301/HS301DR
- 3.0°C/W Thermal resistance
- Aluminum with black anodized finish

HS202/HS202DR
- 2.0°C/W Thermal resistance
- Aluminum with black anodized finish

HS201/HS201DR
- 2.0°C/W Thermal resistance
- Aluminum with black anodized finish

HS151/HS151DR
- 1.5°C/W Thermal resistance
- Aluminum with black anodized finish

HS122/HS122DR
- 1.2°C/W Thermal resistance
- Aluminum with black anodized finish

HS103/HS103DR
- 1.0°C/W Thermal resistance
- Aluminum with black anodized finish

Consult website for detailed product specifications. www.crydom.com
Covers

Part no.: KS100, KS300
- Clear plastic cover for panel mount SSRs
- Provide added protection from electric shock when installing equipment

DIN Rail Bracket

Part no.: DRK1
- Spring, retaining clip, 45 mm DIN Rail bracket and 2 screws 6-32 x 1/4 in.

Filters

Part no.: 1F25, 3F20, 3F20-4
- EMI noise suppression AC filter for SSR

Consult website for detailed product specifications. www.crydom.com
Hardware Kits

HK1

HK2

Part no.: HK1
- Bag with 2 SSR mounting screws 8-32 x 3/8 in

Part no.: HK2
- Bag with 1 ground screw 10-32 x 3/8 in and 2 bracket screws 6-32 x 1/4 in

ID Marker Strips

Part no.: CNLB
- Unprinted

Part no.: CNLN
- Printed from 1 to 10

Part no.: CNL2
- Printed from 11 to 20

Lug Terminals

Part no.: TRM1
- Copper wire lug for AWG 6 (13.3 mm²) to AWG 0 (53.5 mm²) wire size

Part no.: TRM6
- Copper wire lug for AWG 14 (2.1 mm²) to AWG 6 (13.3 mm²) wire size

Part no.: TRM3/0

Consult website for detailed product specifications. www.crydom.com
Accessories

Thermal Pads
Mini-Puck

Part no.: HSP-6
- For mini-puck panel mount SSRs
- Includes adhesive on one side

Thermal Pads
Hockey Puck

Part no.: HSP-1
- For standard hockey puck package SSRs
- Non-adhesive

Part no.: HSP-2
- For standard hockey puck package SSRs
- Includes adhesive on one side

Thermal Pads
Large Puck

Part no.: HSP-3
- For large puck panel mount SSRs
- Non-adhesive

Part no.: HSP-5
- For large puck panel mount SSRs
- Includes adhesive on one side

Consult website for detailed product specifications.  www.crydom.com
Sockets

DRS Sockets
- Part no.: DRS1, DRS4
- For SIP PCB mount SSRs
- Single & four channels available

DRSCN Sockets
- Part no.: DRSCN05, DRSCN24
- For CN Series SSRs
- 250 V, 6 Amp of max. rating regardless of selected SSR

DRSED Sockets
- Part no.: DRSED
- For ED Series SSRs
- Finger safe IP10

PCBSED Sockets
- Part no.: PCBSED
- For ED Series SSRs
- Rated at 250 V AC/DC, 12 Amp

Consult website for detailed product specifications. www.crydom.com
Latest specifications are always available at www.crydom.com
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