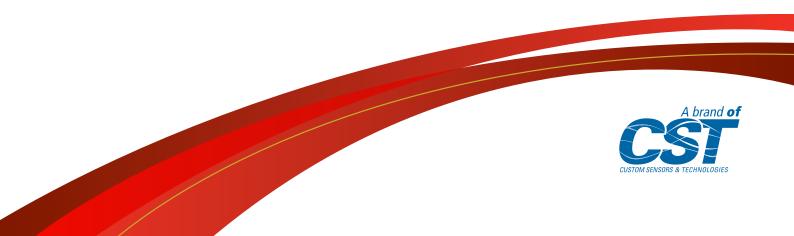


Overview



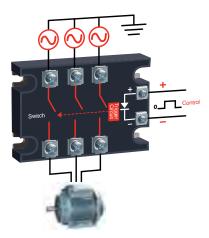
The Global Expert in Solid State Switching Technology



What is a Solid State Relay / Contactor?

A Solid State Relay or Contactor (SSR or SSC) is an electronic component that switches Power (AC or DC current) to a load circuit and provides electrical isolation between an application's control circuit and load circuit. It is a competitive technology to Electromechanical Relays (EMRs) and other switching technologies such as Mercury Displacement Relays (MDRs).





Ratings by Type of Package *







		Panel Mount	DIN Rail Mount	PCB Mount	Plug-In Mount	Contactors
AC Output	Voltage (Volts)	140 280 530 660	140 280 530 660	140 280 530 660	280	480 530 600
AC	Current (Amps)Single Dual 3 Phase	150 50 50	65 6 25	25 15 15	5	50
DC Output	Voltage (Volts)	1000	200	200	100	250
DC O	Current (Amps)	100	30	20	5	60

* Crydom's maximum ratings



Custom Sensors & Technologies (CST) is a specialist in designing and manufacturing sensing, control and motion products.

Through its brands, BEI Kimco, BEI Sensors, BEI PSSC, Crouzet, Crydom, Kavlico, Newall and Systron Donner Inertial, CST offers customizable, reliable and efficient components for mission-critical systems in Aerospace & Defense, Transportation, Energy & Infrastructure, Medical, Food and Beverage and Building Equipment markets.

Focused on premium value offers and committed to excellence, CST, with 4,500 employees worldwide and sales of \$600M US in 2013, is the dependable and adaptable partner for the most demanding customers.

www.cstsensors.com



Crydom, global expert in solid state switching technology, combines technology and innovation to provide customers a wide range of standard Solid State Relays and Solid State Contactors, and specializes in custom designed solid state switching solutions for any load control application. Crydom is a brand of CST.

www.crydom.com



Solid State Relay & Contactor Applications

Although there are literally thousands of individual uses for Solid State Relays and Contactors, most can be categorized into the following applications:

Motion Control

Includes elevators, lifts, hoists, exercise equipment, conveyor systems, solar trackers, fans, solenoid and valve control.



Benefits:

- Endurance
- Shock & vibration resistance
- Soft Start
- Reversing
- No arcing

- Fast switching
- Long life
- No maintenance
- Easy to interface
- Reduced parts count

Heating Control

This encompasses the largest segment of solid state relay users. Applications include, but are not limited to: professional food equipment, plastic molding / extrusion machinery, HVAC&R and soldering equipment.



Benefits:

- Long life
- No maintenance
- Safe product
- Easy to interface
- Enabling temperature accuracy
- Suitable for heater, fan, blower and valve control

ower Control

Includes power supplies, transformers, regulators, inverters, converters, UPS systems, etc. as well as any load that is not specifically for heating, lighting or motion control.



Benefits:

- Long life
- Silent operation
- High speed switching
- Endurance
- Mechanical shock and vibration resistance
- Position insensitive
- Logic compatibility
- Arc and bounce free switching
- Low electromagnetic emissions

Lighting Control

These applications are usually broken down into three categories: theatrical, warehouse and commercial. Many of the products used in this segment are custom designed.



Benefits:

- Dimming
- Silent operation
- Fast switching
- Long life
- No maintenance

- Safe product
- Easy to interface
- Reduced parts count



Why Use Solid State Switching Technology?



Long Life

Solid state relays and contactors have no moving parts. Therefore, there is no mechanical wear and tear on the output contact, ideal for repetitive applications.



Solid state switching solutions make no acoustical noise when the output contacts change states. This is highly desirable in many commercial and medical applications.



Zero voltage turn-on and zero current turn-off allows for minimum electrical disturbances generated by solid state relays and contactors.

Low Power Consumption

Solid state relays and contactors require very little input power "coil current" to switch large loads.



Solid state switching solutions are not susceptible to erratic or unreliable operation when operating under tough environments.



Ideal for Harsh Environments

Solid state relays and contactors do not generate sparks or electric arcs and do not bounce either electrically or mechanically.



Compatibility with Control Systems

DC controlled SSRs can be switched by digital systems such as μ C based systems. AC controlled SSRs can be driven by limit switches and sensors carrying AC control signals.



```
Fast Switching
```

Instantaneous turn-on solid state relays and contactors respond to a control signal in less than $100 \, \mu s$.



Position Insensitive

Suitable for mounting in either vertical or horizontal position, "dead bug" position and adjacent mounting.



Solid state relays and contactors are much lighter than equivalent electromechanical versions; depending on the power can be up to 70%.

crydom



Magnetic fields have little effect on solid state relays and contactors since, unlike electromechanical contactors, they don't use a magnetic coil to switch the load.



Reduced Energy Cost

Energy savings are achieved from switching the load off when it is not required; using automation to ensure maximum system efficiency.

4

Solid State Relays versus Solid State Contactors

Crydom has been well known for over 40 years as a supplier of Solid State Relays (SSRs). However, Crydom also designs, manufacturers and markets Solid State Contactors (SSCs). What is the difference between SSRs and SSCs?

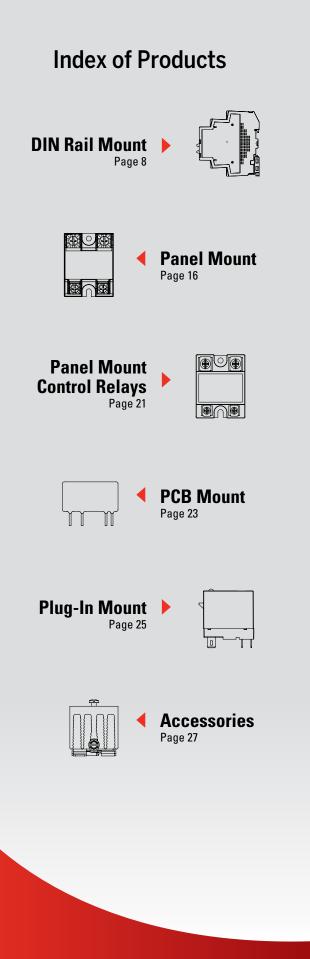
Remarkably, **there is very little actual difference**. They use similar power semiconductors and control circuits, and in some cases, even the same housings. SSRs, being considered as components, are applied in a large variety of applications and uses. SSCs, are generally applied in 3 phase AC heater and motor control applications although the SSCs themselves can be used successfully in almost any load control application. **Why then are they viewed and applied differently?**

There are two main reasons: Tradition and Ratings.

Tradition is that for most AC power control applications utilizing 3 phase AC power and some DC applications, traditional mechanical contactors are employed. (Note: mechanical contactors rated to switch AC loads are quite different from those rated for DC loads of similar currents due to the arcing and contact degradation associated with making and breaking a DC circuit). Therefore when the need arises to use solid state technology in these type applications rather than EMRs, engineers immediately think of Solid State "Contactors", not Solid State "Relays". So they are disposed to consider SSCs rather than SSRs despite the fact that **SSRs can perform exactly the same switching function as a Contactor**.

Ratings of contactors whether Solid State or Mechanical always include allowed motor load ratings and allowed resistive load ratings. The reason for this is again tradition in that for most mechanical contactors, the switching capabilities and life expectancy vary significantly for each type of load. Further, motor control requires consideration of such aspects as Locked Rotor Rating, Full Load Current Ratings and Horse Power Rating, while resistive load ratings must account for significant inrush current that also degrades mechanical contacts. SSRs and SSCs don't suffer the same type degradation due to load characteristics as mechanical contacts do and therefore the motor and resistive load ratings are not as widely different. However the one significant differentiator is that to be considered a contactor, the SSR or SSC must be evaluated to and carry ratings appropriate for motor control.

So in summary, the major technical difference between an SSR and SSC has to do with the mandatory motor ratings required to be defined as a "Contactor".



About This Catalog

Products included in this catalog are only part of the Crydom offer of Solid State Relays and Contactors. To facilitate the use of this catalog, products have been categorized into 6 product groups mainly defined by mounting type.

The following conditions are applicable to product families where specifically noted:

- A Part Number Nomenclature is color coded as follows:
 - Required for valid part number
 - For options only and not required for valid part number
- Not all part number combinations are available. Contact Crydom Sales Support for information on the availability of a specific part number.
- In addition to the possible combinations shown

in the part number nomenclature, any standard Crydom PCB Mount SIP type SSR with similar pin centers can be offered as an assembly.

▶ Listed agency approvals may not apply to

all part numbers available within a series. To consult agency approvals for a specific part number contact Crydom Technical Support.

- E Required external heat sink for all ratings.
- **I** Motion Control functions are coded a follows:



- ◄► Reversing
- Soft Start Speed
- Control





Outstanding features all in one contactor!



- 9000 starts per hour
- Embedded auxiliary contacts
 Full compatibility with
- 100 kA Short Circuit Current Rating (SCCR)
- Flexible input control options
- Full compatibility with Schneider Electric accessories
- For more information on the SOLICON DRC Series visit motion.crydom.com



DIN Rail Mount

	utput														Am	
Page	Series	Description	2	2.4	3	4	4.2	5	6	7.6	8	10	12	20	25	30
8	SOLICON DRC3P	3 Phase														
9	SOLICON DRC3R	Reversing														
9	DRA-CN	6 mm														
9	DRA	10/54 mm														
10	SeriesOne DR	11 mm														
10	CKR	22.5 mm														
11	SeriesOneDR Dual	18 mm														
11	DRA3P	3 Phase														
12	DRA3R	Reversing														
12	CTR	3 Phase														
13	SeriesOne DR Timer	Timer														
DC O	utput												Ra	ating	Am	os
	Series	Description											6	10		30

Crydom DIN Rail Mounted Solid State Relays and Contactors are available in **single, dual and 3 phase output ratings** in the range of **2 to 65 Amps per phase at 24 to 660 VAC** or **2 to 30 Amps at 1 to 100 VDC** in housing widths varying from 6 mm for the lowest output rating versions to 45 mm for 3 phase output rating versions and 62 mm for 3 phase reversing versions. Inputs cover the range of 24 to 280 VAC or 3 to 32 VDC and feature LED input status indicator. All output ratings are free air in a 40° C ambient temperature.

Crydom DIN Rail mounted SSRs and Contactors are "ready-to-use" and carry Safety Agency approvals as noted on each catalog sheet. Visit the DIN Rail SSR and Contactors section of the catalog or Crydom website for additional information on Crydom DIN Rail Mount SSRs and Contactors.



12 CKM

SeriesOne DR Timer

13





DRC3P Series • 7.6 Amps

45 mm

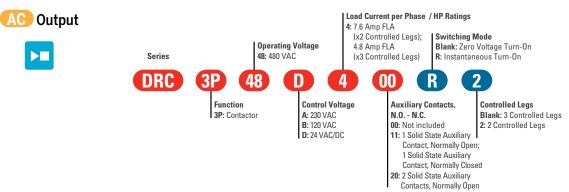
Time



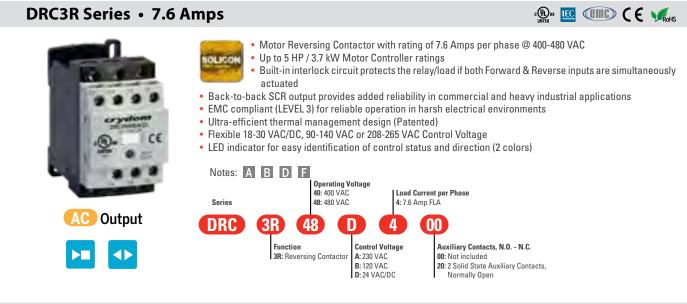


- 3 Phase Solid State Contactor with ratings of 4.8 & 7.6 Amps per phase @ 480 VAC
- Up to 5 HP / 3.7 kW Motor Controller ratings
 - Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
 EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Ultra-efficient thermal management design (Patented)
- Flexible 18-30 VAC/DC, 90-140 VAC or 208-265 VAC Control Voltage
- LED indicator for easy identification of control status
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output
- Internal TVS eliminates the need for external Overvoltage Protection



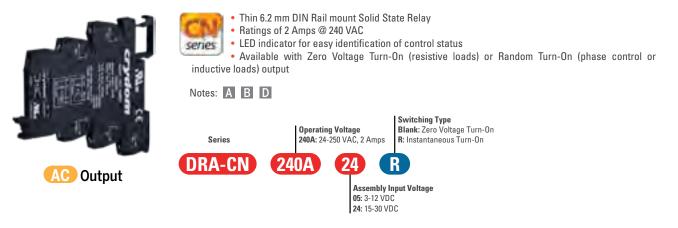


DIN Rail Mount



DRA-CN Series • 2 Amps





DRA Series • 3 - 8 Amps



· Ready-to-use DIN Rail mountable Solid State Relays assemblies using standard Crydom SIP SSRs • Slim 10 mm (single channel) & 54 mm (four channels) packages · Ratings from 3 to 8 Amps · Operating Voltage of 12-530 VAC with back-to-back SCR output for added reliability in commercial

- and heavy industrial applications
- Fits standard 35 mm DIN Rail profiles
- · Cage style screw termination for easy and reliable wire connection
- AC & DC Control Voltage versions available depending upon selected SSR
- Available with Normally Closed output
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (inductive loads) output
- LED indicator for easy identification of control status

Notes: A B C D



Standard Crydom SSR p/n including the following series: CX/CXE MCX/MCXE MP (One Channel only) PF (One Channel only) SPF/SPFE (One Channel only)



SeriesOne DR • 3 - 12 Amps

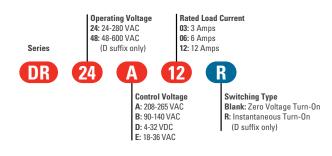




AC Output

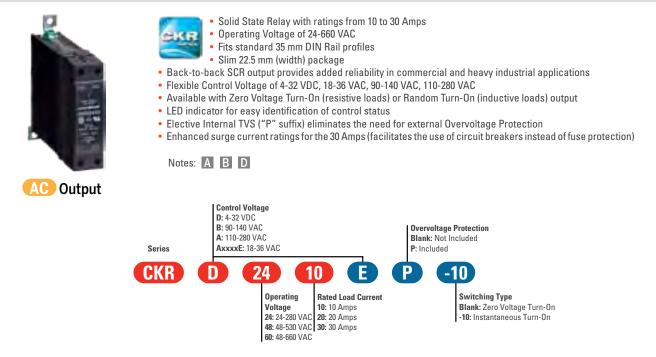
- 🔹 DIN Rail mount 11 mm (3 & 6 Amps) or 18 mm (12 Amps) wide Solid State Relay
- Operating Voltage of 24-280 VAC and 48-600 VAC
- Fits standard 35 mm DIN Rail profiles
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
 Flexible Control Voltage of 4-32 VDC, 18-36 VAC, 90-140 VAC, 208-265 VAC
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (inductive loads) output
- IP20 housing for greater safety with lug type terminals
- LED indicator for easy identification of control status
- UL 508 overload endurance rated

Notes: A B D F



CKR Series • 10 - 30 Amps

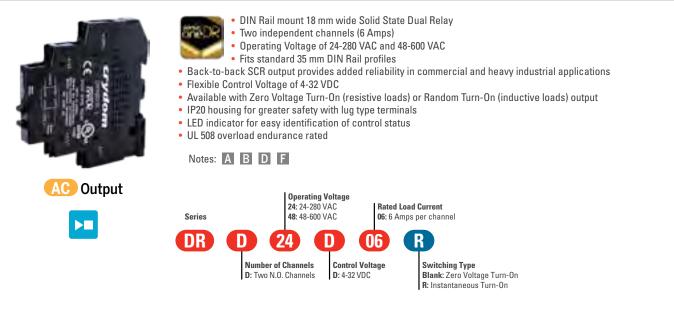




10 crydom

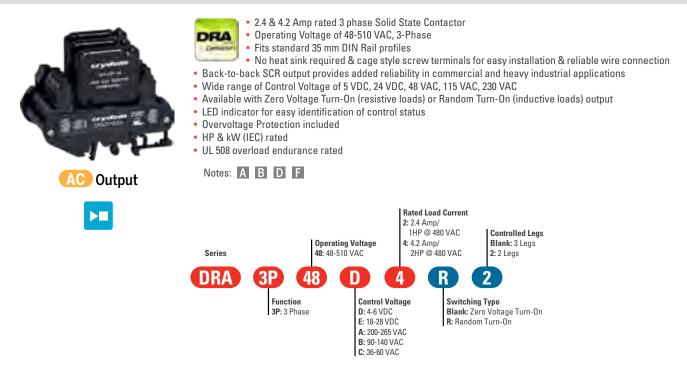
DIN Rail Mount

SeriesOne DR Dual • 6 Amps









crydom 11

DIN Rail Mount

DRA3R Series • 2.4 - 4.2 Amps



10: 10 Amps 20: 20 Amps 30: 30 Amps 

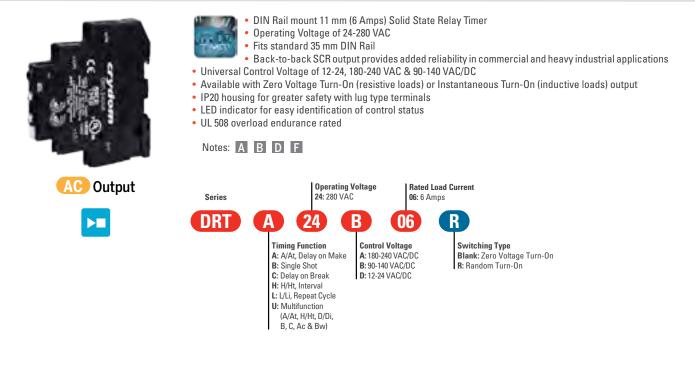
The functionality of a Timer... the control & reliability of a Solid State Relay



DIN Rail Mount

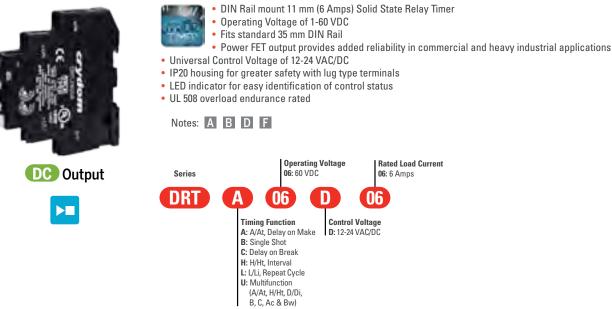
SeriesOne DR Timer • 6 Amps





SeriesOne DR Timer • 6 Amps





14 crydom

MeetTHE NEW & improved PANEL MOUNT Improved "SEMS" gen SOLID STATE RELAY screw & washer CURRENT NEW Improved touch safe cover **Redesigned housing** CURRENT NEW with anti-rotation barriers CURRENT **NEW** Direct output "lead frame" termination CURRENT **NEW** 240V~ Improved circuit perfomance CURRENT NEW OLID RP RUUS D2425 INPLIT Low input current option CURRENT **NEW** CURRENT **NEW** Regulated control inputs Improved thermal Stress & epoxy free performance with construction DBC technology

Panel Mount

	<mark>utput</mark> Series	Description	10	25	40	Ra 50	iting 75	ps 110	125
16	Series 1	280 V							
17	CW	HD 660 V	-						
17	53TP	3 Phase							
18	53RV	Reversing							
18	Evolution Duals	Screw Terminals							
	<mark>utput</mark> Series	Description			10		iting 40	ps 80	100
19	PowerPlus DC	1 - 500 V							
19	LVD	Disconnect							
20	DP	Reversing							

Crydom Panel Mount Solid State Relays and Contactors are designed to easily mount on panels or heat sinks for applications which require single, dual or 3 phase output ratings in the range of 5 to 125 Amps at 24 to 660 VAC or 1 to 160 Amps at 1 to 1000 VDC. Available inputs include 24 to 280 VAC, 3 to 32 VDC or analog control depending upon model.

Offered in several configurations including three industry standard size and mounting styles, Crydom Panel Mount SSRs and Contactors provide both an easy means to mechanically secure them in equipment and provide a reliable thermal path to dissipate thermal energy. Models and options include screw termination, quick connections, optional protective covers, input indicator LEDs and thermal interface pads, as well as heat sinks and SSR/Heat Sink Assemblies.

See the product pages for a summary of available ratings, features and Safety Agency approvals. Visit the SSR Accessories and Assemblies sections of the catalog or the Crydom website for additional information on Crydom SSRs, Contactors and available accessories for Panel Mount SSRs, Contactors and Assemblies.

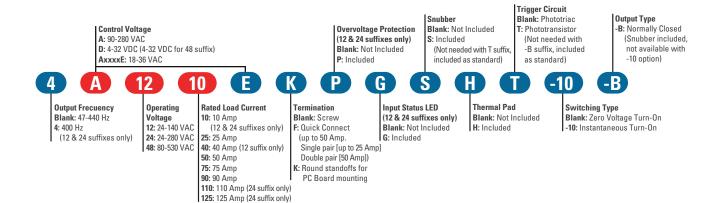
🔁 🏵 (EMC) 🚕 C E 🕼

Series 1 • 10 - 125 Amps

AC Output

- Crydom's Signature family of Solid State Relays
- Ratings from 10 to 125 Amps @ 24-280 VAC and from 12 to 90 Amps @ 80-530 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible 3-32 VDC, 18-36 VAC or 90-280 VAC Control Voltage
- "Ultra-low" input current draw (2-4 mAmps DC typical)
- Optional output R-C Snubber
- · Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output
- Elective Internal TVS ("P" suffix) eliminates the need for external Overvoltage Protection
- A pre-attached Thermal Pad can be ordered to eliminate the need for thermal grease using the "H" suffix
- Optional Normally Closed output ("-B" suffix option)
- UL 508 overload endurance rated

Notes: A B D E





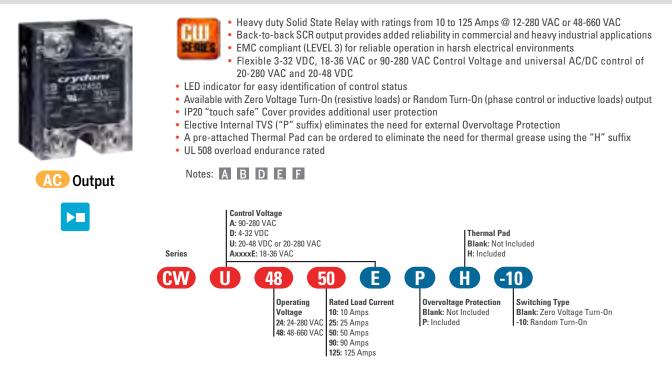




Panel Mount

FL' 🚯 (ENC) 🐼 (E Vinte

CW Series • 10-125 Amps



53TP Series • 25-50 Amps





- 3 Phase Solid State Contactor with ratings of 25 & 50 Amps per phase @ 48-530 VAC 53
 - . Up to 7.5 HP / 5.5 kW Motor Controller ratings
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications eries
 - EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Direct Bond Copper (DBC) substrate for superior thermal performance
- R-C Snubber network for additional dv/dt attenuation
- Flexible 4-32 VDC, 18-36 VAC or 90-140 VAC / 180-280 VAC Control Voltage
- LED indicator for easy identification of control status
- · Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output

• A pre-attached Thermal Pad can be ordered to eliminate the need for thermal grease using the "H" suffix

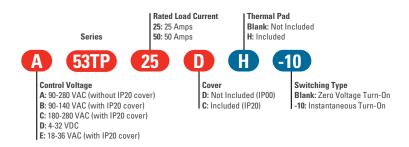
• Optional IP20 "touch safe" Cover (shown) provides additional user protection • Internal TVS eliminates the need for external Overvoltage Protection

AC Output



Notes: A B D E F

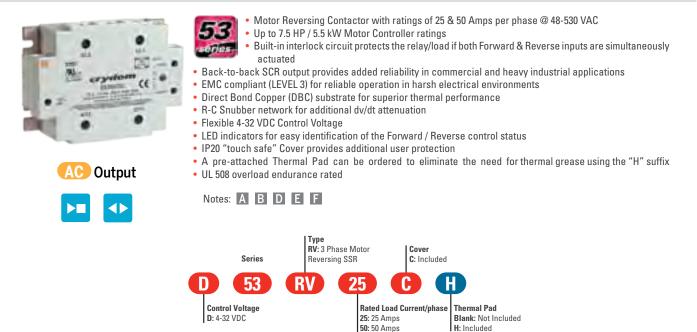
• UL 508 overload endurance rated



crydom 17

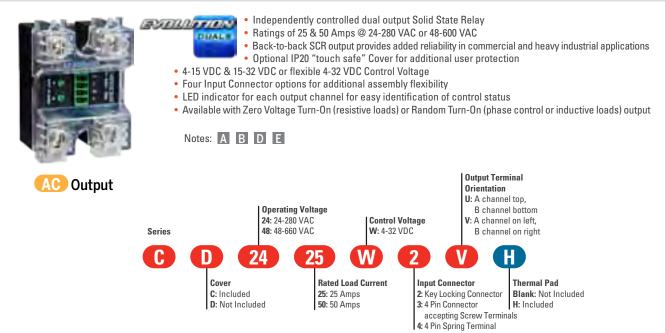
53RV Series • 25-50 Amps





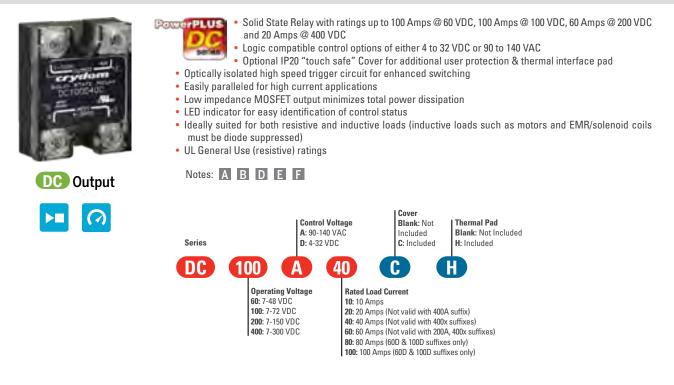
Evolution Dual Series • 25 - 50 Amps





Panel Mount

DC Series • 10 - 100 Amps



LVD Series • 40 - 100 Amps



UNDISTRO	LVD	Monitors and automati prevent deep discharg Low impedance MOSF ol ranges available for	ct with ratings up to 100 Amps @ 3-75 VDC ically disconnects battery systems from loads at low voltage conditions to ge of the batteries ET output minimizes total power dissipation a variety of 12 VDC and 24 VDC battery systems
DC Output	Series	Operating Voltage 75: 3-75 VDC	Rated Load Current 40: 40 Amps 60: 60 Amps 80: 80 Amps 100:100 Amps H: Included H: Included
		A: 18 VDC B: 18 VDC C: 18 VDC D: 36 VDC E: 36 VDC	oltage Code max., Hysteresis 11.0-11.5 VDC max., Hysteresis 11.5-12.0 VDC max., Hysteresis 12.0-12.5 VDC max., Hysteresis 23.0-24.0 VDC max., Hysteresis 24.0-25.0 VDC max., Hysteresis 25.6-26.6 VDC

DP Series • 20 - 60 Amps





Motor Reversing Contactor with ratings up to 60 Amps @ 48 VDC

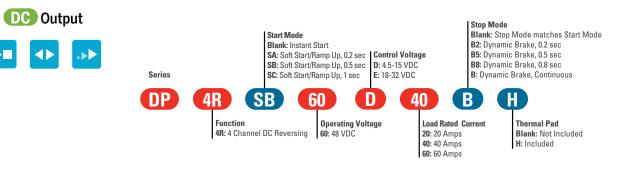
Low impedance MOSFET switches in an H-Bridge configuration for motor reversing
 Control features to combine Soft Start/Ramp Up, Soft Stop/Ramp Down & Braking functions

on each polarity

 Built-in interlock circuit protects the relay/load if both Forward & Reverse inputs are simultaneously actuated

- UL & IEC General Use & Motor Controller ratings
- LED indicators for easy identification of the Forward / Reverse control status

Notes: A B D E F



Panel Mount Control Relays

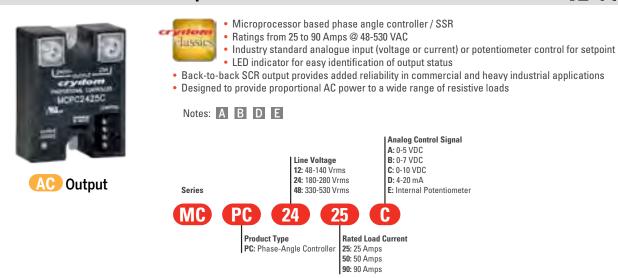
Crydom Solid State Control relays combine Crydom's proven solid state switching technology with **advanced microprocessor control** to create standard SSRs with advanced features such as analog input AC phase control and thermocouple input temperature control. Additional features such as AC soft start/soft stop, DC soft start/soft stop, DC electronic brake, DC PWM and AC burst fire integral cycle control are available on special order.

Available in Crydom's standard "S1" package, Crydom Solid State Control relays feature a wide range of output ratings, UL/cUL approval and CE certification to the RoHS and Low Voltage Directives.

	utput Series	Description	Rating Amps 25 50 90
21	MCPC	Phase Control	
22	MCTC	Temperature Control	
22	SMR-6	Monitoring	

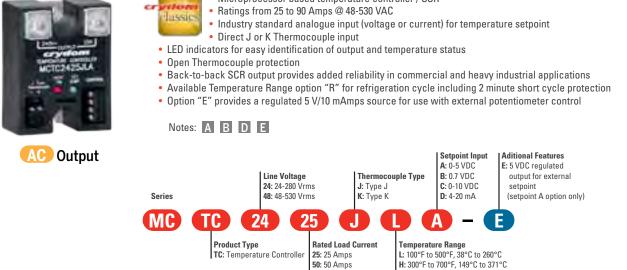


MCPC Series • 25-90 Amps





MCTC Series • 25-90 Amps

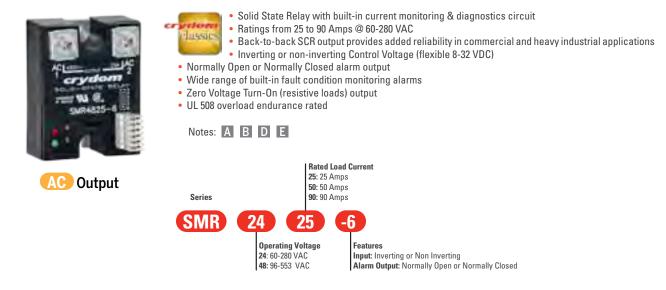


90: 90 Amps

VH: 500°F to 900°F, 260°C to 482°C **EH**: 700°F to 1100°F, 371°C to 593°C **R**: +100°F to -100°F, +38°C to -73°C

SMR -6 Series • 25-90 Amps





Microprocessor based temperature controller / SSR

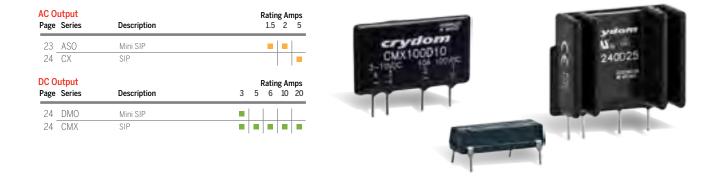
22 crydom

PCB Mount

Crydom offers an extensive line of PCB Mount Solid State Relays including the **popular industry standard footprint SIP**, **Mini SIP and DIP configurations** and most Crydom SIP type SSRs are also offered as DIN Rail mountable Assemblies.

Models are available for applications requiring ratings from **1 to 25 Amps at 24 to 660 VAC** or **1 to 20 Amps at 1 to 200 VDC**. Inputs are available covering 24 to 140 VAC or 3 to 32 VDC depending upon model. Excepting some AC output models rated greater than 10 Amps where forced air is used for improved output ratings (forced air is not required for DC output), all Crydom PCB Mount Relay output ratings are based upon free air and 40 °C ambient.

See the product pages for a summary of **available package size and pin out, ratings, features and Safety Agency approvals**. Visit the SSR Assemblies section of the catalog or the Crydom website for additional information on Crydom PCB Mount SSRs and Assemblies.



ASO Series • 1.5-2 Amps





PCB Mount

 CX Series • 5 Amps SIP Solid State Relay ideally suited for high density PCB applications Back to 5 Amps @ 48-660 VAC Back-to-back SCR output provides added reliability in commercial and heavy industrial applications High surge current rating Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output A cor DC Control Voltage options Notes: A B D E 	
 Ratings up to 5 Amps @ 48-660 VAC Back-to-back SCR output provides added reliability in commercial and heavy industrial applications High surge current rating Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output AC or DC Control Voltage options Notes: A B D F 	
Operating Voltage 240: 12-280 VAC 380: 48-550 VAC 480: 48-660 VAC 5: 5 Amps	
Control Voltage Blank: 3-15 VDC (240 & D uffix only) 4-15 VDC (380/480 & D suffix only) 90-140 VAC (A suffix only) E: 15-32 VDC (D suffix only) 18-36 VAC (A suffix only)	
DMO Series • 3 Amps C € 🐙	
 Compact design Solid State Relay ideally suited for high density PCB applications Ratings up to 3 Amps @ 60 VDC 3-10 VDC Control Voltage Low impedance MOSFET output minimizes total power dissipation Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed) Solderable 0.015" x 0.030" pins can also plug fit SIP type IC socket 	
DC Output Series DMO 063	

CMX Series • 3 - 20 Amps • SIP Solid State Relay ideally suited for high density PCB applications store • Low impedance MOSFET output minimizes total power dissipation lussie • Ratings up to 20 Amps @ 60 VDC, 10 Amps @ 100 VDC or 3 Amps @ 200 VDC • Easily paralleled for high current applications 1000010 · Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed) Notes: A B D **Rated Load Current** 3: 3 Amps (200 VDC only) 5: 5 Amps (60 VDC only) 6: 6 Amps (100 VDC only) Operating Voltage 60: 0-60 VDC **DC** Output 100: 0-100 VDC 10: 10 Amps (60 & 100 VDC only) 200: 0-200 VDC Series 20: 20 Amps (60 VDC only) CMX Ε 200 D 5 Control Voltage Blank: 3-10 VDC **Control Input Type** D: DC Input 4-10 VDC (200 VDC only) E: 20-28 VDC



Plug-In Mount

Crydom Plug-In Relays are designed to install in industry standard relay sockets. They can also be soldered directly on PCB assemblies if so desired. Available for applications requiring from **2 to 5 Amps at 24 to 280 VAC** or **0.1 to 5 Amps at 1 to 100 VDC** with inputs covering the range of 24 to 140 VAC or 2 to 32 VDC, these Single Pole Single Throw Normally Open (SPST) relays offer the **speed and dependability of Solid State switching in a traditional mechanical relay format**.

Visit the Accessories section of the catalog for information on compatible sockets. Visit the Crydom web site for additional information on Crydom Plug-In Mount SSRs.

	l <mark>utput</mark> Series	Description	Rating Amps 2 3 5
	LifePlus ED CN	280 V / 5 A 280 V / 2 A	
	<mark>Jutput</mark> Series	Description	Rating Amps 0.1 3.5 5
Fage	Series	Description	0.1 3.5 5





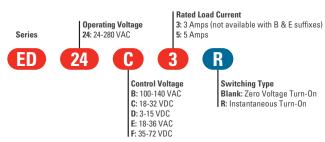


ED Series • 3 - 5 Amps



- Life
- AC Output Solid State Relay in an industry standard EMR plug-in package
 Ratings of 3 & 5 Amps
- Ratings of 3 & 5 Amps
 Operating Voltage of 24-280 VAC
- No moving parts eliminates arcing & contact bounce, significantly increasing the life expectancy over equivalent
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output
- LED indicator for easy identification of control status
- Wide range of AC or DC Control Voltage options
- Quick Connect termination for easy installation in sockets or on boards
- DIN Rail & PCB mountable sockets available
- Silent operation (no acoustical switching noise)
- UL & IEC General Use & Motor Controller Ratings available

Notes: A B D F

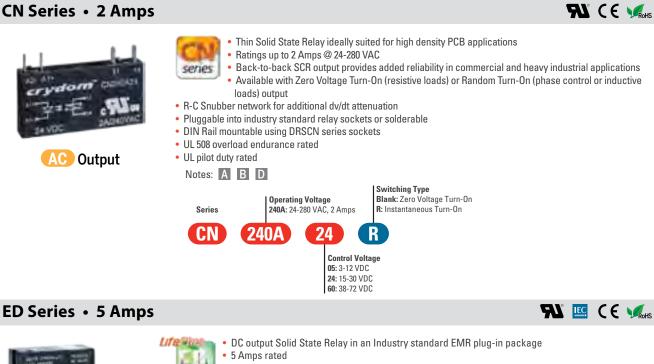


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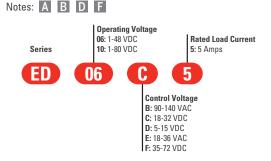
Plug-In Mount

CN Series • 2 Amps



- Operating Voltage of 1-48 VDC and 1-80 VDC
 - No moving parts eliminates arcing & contact bounce, significantly increasing the life expectancy over equivalent rated electromechanical relays and contactors
- · LED indicator for easy identification of control status
- Wide range of AC or DC Control Voltage options
- Quick Connect termination for easy installation in sockets or on boards
- DIN Rail & PCB mountable sockets available
- Silent operation (no acoustical switching noise)
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)
 - UL & IEC General Use & Motor Controller Ratings available





CN Series • 0.1-3.5 Amps



- Thin Solid State Relay ideally suited for high density PCB applications
 - Ratings of 0.1 Amps @ 48 VDC or 3.5 Amps @ 48 VDC
- Pluggable into industry standard relay sockets or solderable series •
- DIN Rail mountable using DRSCN series sockets UL 508 overload endurance rated





Operating Voltage 024D: 0-24 VDC, 3.5 Amps 048D: 0-48 VDC, 0.1 Amps Series CN 024D 24 **Control Voltage** 05: 3-12 VDC 24: 15-30 VDC 60: 38-72 VDC



Accessories

Crydom supports its extensive SSR and Contactor product lines with a comprehensive offer of accessories including Heat Sinks, Thermal Pads, Protective Covers, Sockets, Terminal Lugs, Hardware Kits, Marker Strips and DIN Rail Kits to make it easy to employ Crydom SSRs and Contactors in any application. Crydom can also create special configuration SSRs or Contactors that include installed accessories if so desired. Visit the catalog or Crydom website for additional information on Crydom SSR accessories.



Part No.: 1F25 EMI noise suppression filter for SSR in AC single phase systems.



Part No.: 3F20 EMI noise suppression filters for SSR in three phase systems.



Filters

Heat Sinks

thermal resistance.

Part No.: 3F20-4 EMI noise suppression filters with neutral for SSR in three phase systems.



Part No.: HK1

Bag with 2 SSR mounting screws 8-32 x 3/8 in.

resistance.



Part No.: HS501DR 5.0°C/W thermal resistance. Suitable for 1 single or dual SSR. Din Rail mountable.

Part No.: HS073 NEW!

thermal

Suitable for 1 or 2 single or dual

SSR; one 3 phase SSR. Panel

0.7°C/W

mountable.



Part No.: HS301 / HS301DR

1.5°C/W thermal resistance. Suitable for 1 single or dual SSR. Panel or DIN Rail mountable versions available.

0.5°C/W thermal resistance.

Suitable for 1, 2 or 3 single or dual

SSRs; one 3 phase SSR. Panel



Part No.: HS033 NEW

versions available.

Part No.: HS151 / HS151DR

Suitable for 1 single or dual SSR.

Panel or DIN Rail mountable

1.5°C/W

0.25°C/W thermal resistance. Suitable for 1 or 2 single or dual SSRs; one 3 phase SSR. Panel mountable.

ID Marker Strips



Part No.: CNLB A and a second A package of 10 plastic strips comprising 10 individual unprinted markers.



Part No.: CNLN

Part No.: HS053

mountable.

A package of 10 plastic strips comprising 10 markers printed individually from 1 to 10.

per une une



Part No.: CNL2

A package of 10 plastic strips comprising 10 markers printed individually from 11 to 20.

Lug Terminals

Sockets

Part No.: TRM1 Copper wire lug for AWG 6 (13.3 mm²) to AWG 0 (53.5 mm²) wire size. Mounts with #8, #10, M4 or M5 screws.



Part No.: TRM6

Copper wire lug for AWG 14 (2.1 mm²) to AWG 6 (13.3 mm²) wire size. Mounts with #8, #10, M4 or M5 screws.



Part No.: TRM3/0

Copper wire lug for AWG 4 (21.2 mm²) to AWG 3/0 (85 mm²) wire size. Mounts with 3/8" bolt/stud.

Protective Cover -



Part No.: KS101 NEW

Clear plastic cover for 4th generation single phase SSRs.



Part No.: DRS1 10 mm single channel DIN Rail mountable socket for Crydom PCB SIP SSRs.



Part No.: DRS4 54 mm four channel DIN Rail mountable socket for Crydom PCB SIP SSRs.



Part No.: DRSCN 6 mm wide DIN Rail mountable socket for CN Series relays.



Part No.: DRSED Finger safe IP10 DIN Rail mountable socket for ED Series SSRs

Part No.: PCBSED 54 mm four channel DIN Rail mountable socket for Crydom PCB SIP SSRs.

Thermal Pads



Part No.: HSP-2

Thermal pad for standard hockey puck package SSRs. Includes adhesive on one side.





AMERICAS



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