



***crydom***<sup>®</sup>

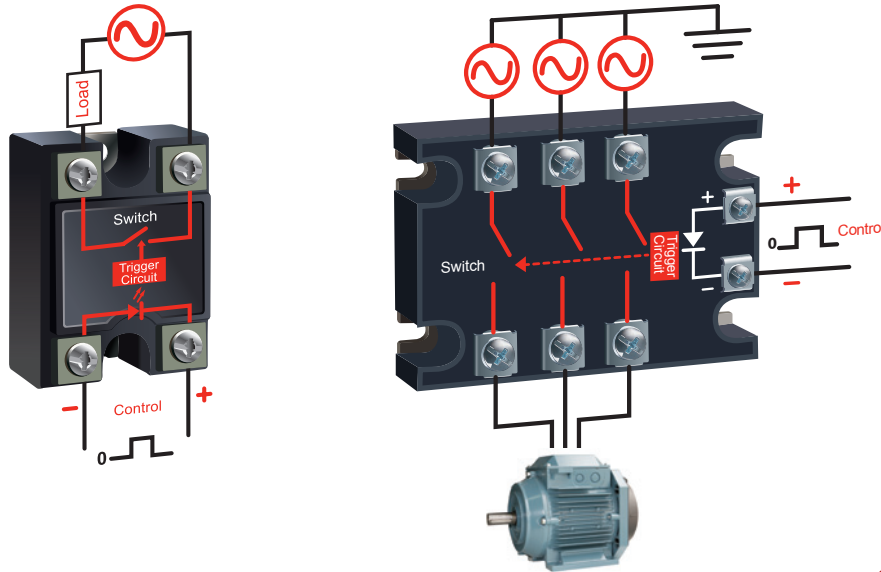
**Solid State Relays & Contactors**



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) and discrete component assemblies.



# 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, as well as enabling temperature accuracy. Suitable for heater, fan, blower and valve control.

## **Power 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, and 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.

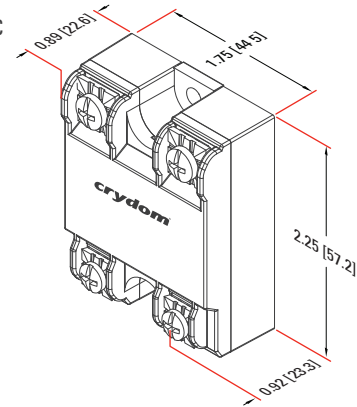
**Benefits:** Dimming, silent operation, fast switching, long life, no maintenance, safe product, easy to interface, reduced parts count.

## Series 1 • 10-125 Amps



- Crydom's Signature family of Solid State Relays
- Ratings from 10 to 125 Amps @ 24-280 VAC and from 25 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
- Elective "ultra-low" input current draw (2-4 mAmps DC typical, "T" suffix option)
- Optional output R-C Snubber for additional dv/dt attenuation
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous 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 compound using the "H" suffix
- Optional Normally Closed output ("B" suffix option)
- UL 508 overload endurance rated and 100 kA Short Circuit Current Rating (SCCR)

Notes: **A B C D J K**

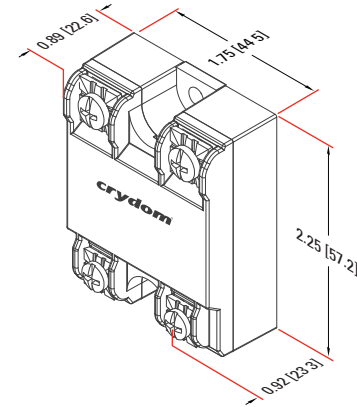


<b>4</b>	<b>A</b>	<b>12</b>	<b>10</b>	<b>E</b>	<b>K</b>	<b>P</b>	<b>G</b>	<b>S</b>	<b>H</b>	<b>T</b>	<b>-10</b>	<b>-B</b>
<p><b>Output Frequency</b> Blank: 47-440 Hz 4: 400 Hz (12 &amp; 24 suffixes only)</p>	<p><b>Control Voltage</b> A: 90-280 VAC D: 3-32 VDC (4-32 VDC for 48 suffix) AxxxxE: 18-36 VAC (12 &amp; 24 suffixes only)</p>	<p><b>Operating Voltage</b> 12: 24-140 VAC 24: 24-280 VAC 48: 48-530 VAC</p>	<p><b>Rated Load Current</b> 10: 10 Amp (12 &amp; 24 suffixes only) 25: 25 Amp 40: 40 Amp (12 suffix only) 50: 50 Amp (24 &amp; 48 suffixes only) 75: 75 Amp (24 &amp; 48 suffixes only) 90: 90 Amp (24 &amp; 48 suffixes only) 110: 110 Amp (24 suffix only) 125: 125 Amp (24 suffix only)</p>	<p><b>Termination</b> Blank: Screw F: Quick Connect (Single pair [up to 25 Amp] Double pair [50 Amp]) K: Installed standoffs for PC Board mounting</p>	<p><b>Overvoltage Protection (12 &amp; 24 suffixes only)</b> Blank: Not Included P: Included</p>	<p><b>Input Status LED (12 &amp; 24 suffixes only)</b> Blank: Not Included G: Included</p>	<p><b>Snubber</b> Blank: Not Included S: Included (Not needed with T suffix, included as standard)</p>	<p><b>Thermal Pad</b> Blank: Not Included H: Included</p>	<p><b>Blank:</b> Phototriac T: Low Current Phototransistor (Not needed with -B suffix, included as standard)</p>	<p><b>Output Type</b> Blank: Normally Open -B: Normally Closed (12 &amp; 24 suffixes only. Snubber included, not available with -10 option)</p>		
<p><b>Switching Type</b> Blank: Zero Voltage Turn-On -10: Instantaneous Turn-On</p>												

Accessories • Assemblies • Plug-In Mount • DIN Rail Mount • PCB Mount • Panel Mount • AC

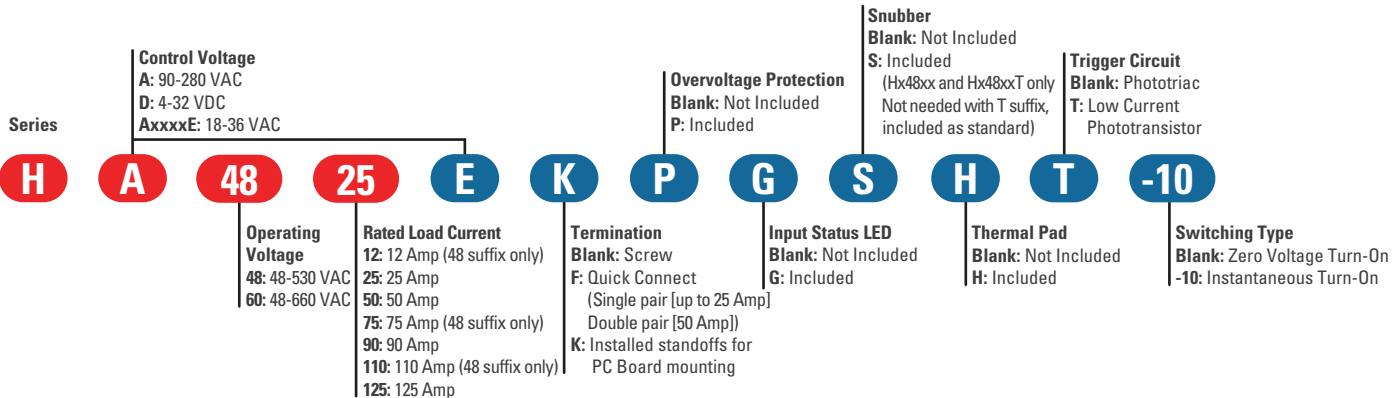
# PANEL MOUNT • AC Output • Relays

## HA/HD Series • 12-125 Amps



- Solid State Relay with ratings from 12 to 125 Amps @ 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible 4-32 VDC, 18-36 VAC or 90-280 VAC Control Voltage
- Elective “ultra-low” input current draw (2-4 mAmps DC typical, “T” suffix option)
- R-C Snubber network for additional dv/dt attenuation (for HA48/HD48 models only)
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous 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 compound using the “H” suffix
- UL 508 overload endurance rated and 100 kA Short Circuit Current Rating (SCCR)

Notes: **A B C D J K**



Panel Mount

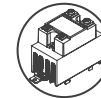
AC  
 PCB Mount • DIN Rail Mount • Plug-In Mount • Assemblies • Accessories

Series H1 • 25-125 Amps

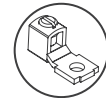


- Solid State Relay with ratings from 25 to 125 Amps @ 48-690 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible 4-32 VDC Control Voltage
- Low output off-state leakage current (2WD & 6WD suffixes only, snubberless)
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous Turn-On (phase control or inductive loads) output
- Elective Internal TVS ("P" suffix) eliminates the need for external Overvoltage Protection (2D & 2WD suffixes only)
- A pre-attached Thermal Pad can be ordered to eliminate the need for thermal compound using the "H" suffix
- UL 508 overload endurance rated and 100 kA Short Circuit Current Rating (SCCR)

Notes: **A B C D J K**

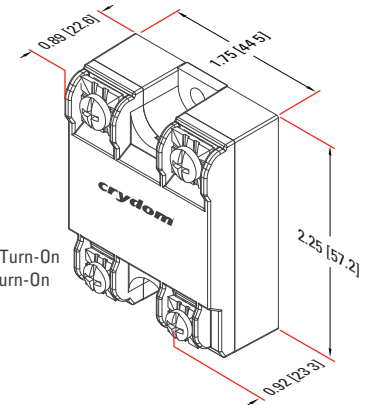


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<p>Series</p> <p><b>H1</b></p>	<p><b>2WD</b></p> <p><b>Transient Overvoltage</b> 2D: 1200 Vpk (with Snubber) 2WD: 1200 Vpk (without Snubber) 6WD: 1600 Vpk (without Snubber)</p>	<p><b>48</b></p> <p><b>Rated Load Current</b> 25: 25 Amp 50: 50 Amp 75: 75 Amp 90: 90 Amp 125: 125 Amp (2D &amp; 2WD suffixes only)</p>	<p><b>25</b></p>	<p><b>K</b></p> <p><b>Termination</b> Blank: Screw F: Quick Connect (Single pair [25 Amp] Double pair [50 Amp]) K: Installed standoffs for PC Board mounting</p>	<p><b>P</b></p> <p><b>Overvoltage Protection (2D &amp; 2WD suffixes only)</b> Blank: Not Included P: Included</p>	<p><b>G</b></p> <p><b>Input Status LED</b> Blank: Not Included G: Included</p>	<p><b>H</b></p> <p><b>Thermal Pad</b> Blank: Not Included H: Included</p>	<p><b>-10</b></p> <p><b>Switching Type</b> Blank: Zero Voltage Turn-On -10: Instantaneous Turn-On</p>
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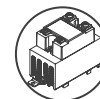


## CW Series • 10-125 Amps

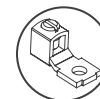


- Heavy duty Solid State Relay with ratings from 10 to 125 Amps @ 24-280 VAC or 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Flexible 3-32 VDC, 18-36 VAC or 90-280 VAC Control Voltage and universal AC/DC control of 20-280 VAC and 20-48 VDC
- LED indicator for easy identification of control status
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous Turn-On (phase control or inductive loads) output
- IP20 "touch safe" Cover provides additional user protection
- 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 compound using the "H" suffix
- UL 508 overload endurance rated and 100 kA Short Circuit Current Rating (SCCR)

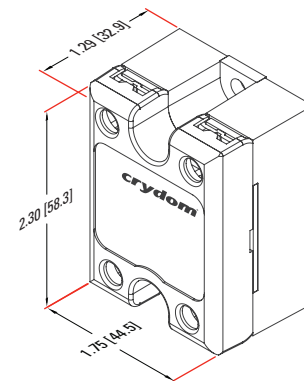
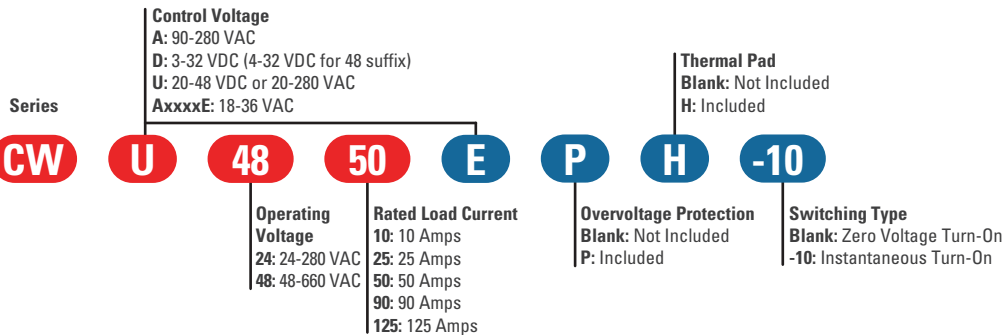
Notes: **A B C D J K**



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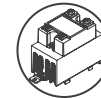


## CSW Series • 10-90 Amps

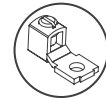


- Heavy duty Solid State Relay with ratings from 10 to 90 Amps @ 24-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Flexible 3-32 VDC Control Voltage
- Low output off-state leakage current (without option "S")
- Elective R-C Snubber network for additional dv/dt attenuation (option "S")
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous 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 compound using the "H" suffix
- UL 508 overload endurance rated and 100 kA Short Circuit Current Rating (SCCR)

Notes: **A B C D J K**

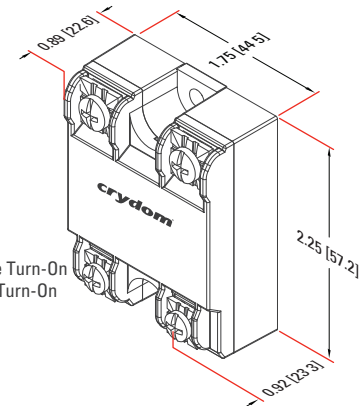


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Series	Operating Voltage 24: 24-280 VAC	Termination Blank: Screw F: Quick Connect (Single pair (up to 25 Amp) Double pair (50 Amp)) K: Installed standoffs for PC Board mounting	Input Status LED Blank: Not Included G: Included	Thermal Pad Blank: Not Included H: Included
<b>CSW</b>	<b>24</b>	<b>K</b>	<b>P</b>	<b>G</b>
	Rated Load Current 10: 10 Amp 25: 25 Amp 50: 50 Amp 75: 75 Amp 90: 90 Amp	Overvoltage Protection Blank: Not Included P: Included	Snubber Blank: Not Included S: Included	Switching Type Blank: Zero Voltage Turn-On -10: Instantaneous Turn-On
				<b>S</b>
				<b>H</b>
				<b>-10</b>



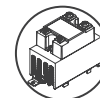


## CL Series • 5-10 Amps

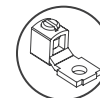


- Economical Solid State Relay with ratings of 5 or 10 Amps @ 24-280 VAC
- Optional IP20 “touch safe” Cover for additional user protection
- Economical Triac based construction
- LED indicator for easy identification of control status
- Regulated AC or DC Control Voltage
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous Turn-On (phase control or inductive loads) output

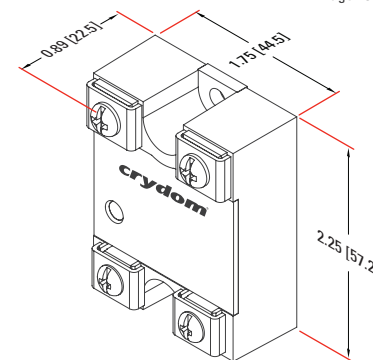
Notes: **A B C D J K**



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Series

**CL**

**240**

**A**

**10**

**R**

**C**

**H**

Control Voltage

**A:** 90-250 VAC  
**D:** 3-32 VDC

Switching Type

**Blank:** Zero Voltage  
Turn-On  
**R:** Instantaneous Turn-On

Thermal Pad  
**Blank:** Not Included  
**H:** Included

Load Voltage  
240: 24-280 VAC

Rated Load Current  
**05:** 5 Amps  
**10:** 10 Amps

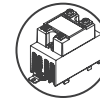
Cover  
**Blank:** Not Included (IP00)  
**C:** Included (IP20)

## PCV Series • 15-90 Amps

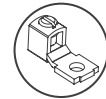


- Easy to use proportional (phase angle) controller
- Ratings from 15 to 90 Amps @ 100-240 VAC
- Simple 2-7 VDC or 2-10 VDC analogue Control Voltage
- Designed to provide proportional AC power to a wide range of resistive loads

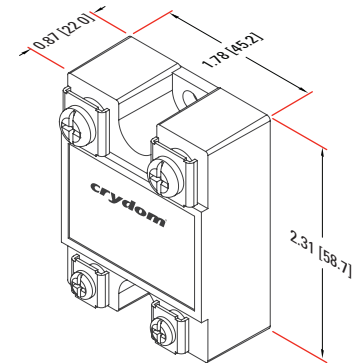
Notes: **A B D J K**



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Series

Operating Voltage  
24: 100-240 VAC

**10**

**PCV**

**24**

**25**

Control Voltage  
7: 2-7 VDC  
10: 2-10 VDC

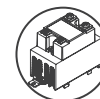
Rated Load Current  
15: 15 Amps  
25: 25 Amps  
50: 50 Amps (10 prefix only)  
75: 75 Amps (10 prefix only)  
90: 90 Amps (10 prefix only)

## DC60 Series • 3-7 Amps

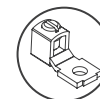


- Economical bipolar transistor output Solid State Relay
- Ratings up to 7 Amps @ 60 VDC
- Available with either a Normally Open (standard) or Normally Closed ("-B" option) output
- Flexible 3.5-32 VDC or 90-280 VAC/DC Control Voltage
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)

Notes: **A B C D J K**



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Series

**DC60**

**SA**

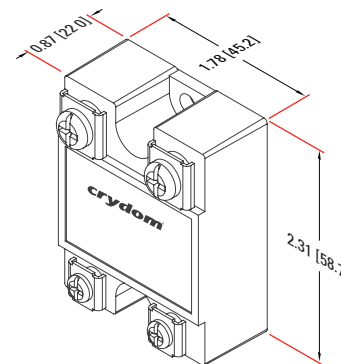
**3**

**-B**

**Control Voltage**  
S: 3.5-32 VDC  
SA: 90-280 VAC/DC

**Output Type**  
Blank: Normally Open  
-B: Normally Closed

**Rated Load Current**  
3: 3 Amps  
5: 5 Amps  
7: 7 Amps



D06D Series • 60-100 Amps



- Solid State Relay with low impedance MOSFET output to minimize total power dissipation
- Ratings from 60 to 100 Amps @ 60 VDC
- Easily paralleled for high current applications
- Flexible 3.5-32 VDC Control Voltage
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)

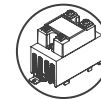
Notes: **A B D J K**

Series

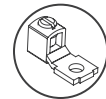
**D** | **06D** | **60**

Operating Voltage  
06D: 0-60 VDC

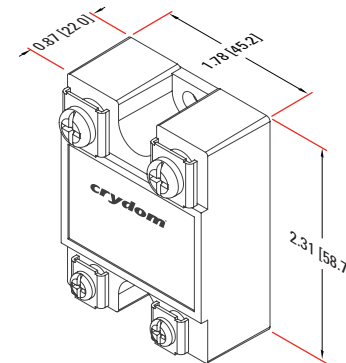
Rated Load Current  
60: 60 Amps  
80: 80 Amps  
100: 100 Amps



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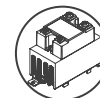


## PowerPlus DC Series • 10-100 Amps

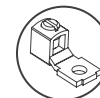


- Solid State Relay with ratings up to 100 Amps @ 60 VDC, 100 Amps @ 100 VDC, 60 Amps @ 200 VDC and 20 Amps @ 400 VDC
- Flexible 4-32 VDC or 90-140 VAC Control Voltage
- Optional IP20 "touch safe" Cover for additional user protection (option "C") & thermal interface pad (option "H")
- Optically isolated high speed trigger circuit for enhanced switching
- Easily paralleled for high current applications
- Low impedance MOSFET output minimizes total power dissipation
- LED indicator for easy identification of control status
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)
- UL General Use (resistive) ratings

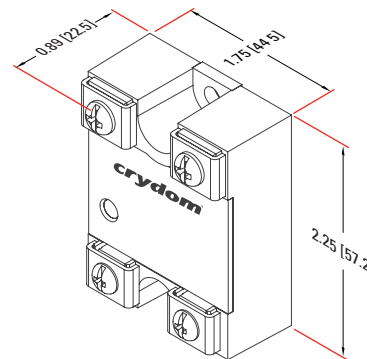
Notes: **A B C D J K**



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Series

**DC**

**100**

**A**

**40**

**C**

**H**

**Control Voltage**  
A: 90-140 VAC  
D: 4-32 VDC

**Cover**  
Blank: Not Included  
C: Included

**Thermal Pad**  
Blank: Not Included  
H: Included

**Operating Voltage**  
60: 7-48 VDC  
100: 7-72 VDC  
200: 7-150 VDC  
400: 7-300 VDC

**Rated Load Current**  
10: 10 Amps  
20: 20 Amps (Not valid with 400A suffix)  
40: 40 Amps (Not valid with 400x suffixes)  
60: 60 Amps (Not valid with 200A, 400x suffixes)  
80: 80 Amps (60D & 100D suffixes only)  
100: 100 Amps (60D & 100D suffixes only)

Series 1 DC • 7-100 Amps



- Solid State Relay with low impedance MOSFET output to minimize total power dissipation
- Ratings up to 100 Amps @ 100 VDC, 40 Amps @ 200 VDC, 12 Amps @ 400 VDC, and 10 Amps @ 500 VDC
- Easily paralleled for high current applications
- Flexible 3.5-32 VDC Control Voltage
- 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 J K**

Series

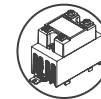
- D**
- 1D**
- 07**

Operating Voltage

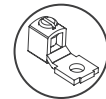
- 1D: 0-100 VDC
- 2D: 0-200 VDC
- 4D: 0-400 VDC
- 5D: 0-500 VDC

Rated Load Current

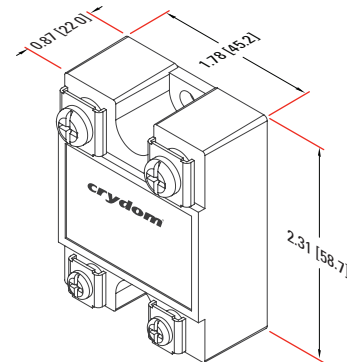
- 07: 7 Amps
- 10: 10 Amps (500 VDC only)
- 12: 12 Amps (not for 500 VDC)
- 20: 20 Amps (100 VDC only)
- 40: 40 Amps (100 & 200 VDC only)
- 60: 60 Amps (100 VDC only)
- 80: 80 Amps (100 VDC only)
- 100: 100 Amps (100 VDC only)



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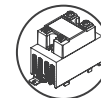


SSC Series • 25 Amps

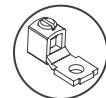


- Solid State Relay with ratings of 25 Amps @ up to 1k VDC
- High voltage IGBT output
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)

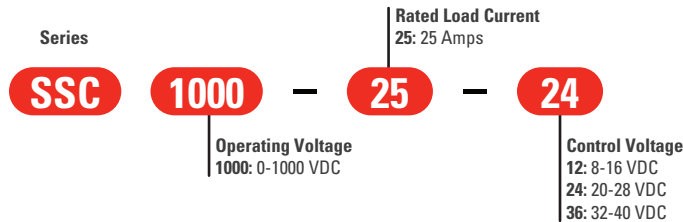
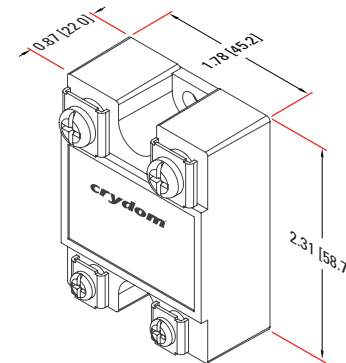
Notes: **A** **B** **D** **J** **K**



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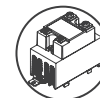


## LVD Series • 40-100 Amps

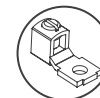


- Low Voltage Disconnect with ratings up to 100 Amps @ 3-75 VDC
- Monitors and automatically disconnects battery systems from loads at low voltage conditions to prevent deep discharge of the batteries
- Low impedance MOSFET output minimizes total power dissipation
- Six DC control ranges available for a variety of 12 VDC and 24 VDC battery systems

Notes: **A B C D J K**



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Series

Operating Voltage  
75: 3-75 VDC

Rated Load Current

40: 40 Amps

60: 60 Amps

80: 80 Amps

100: 100 Amps

Thermal Pad

Blank: Not Included

H: Included

**LVD**

**75**

**A**

**40**

**H**

Control Voltage Code

**A:** 36 VDC max., Hysteresis 11.0-11.5 VDC

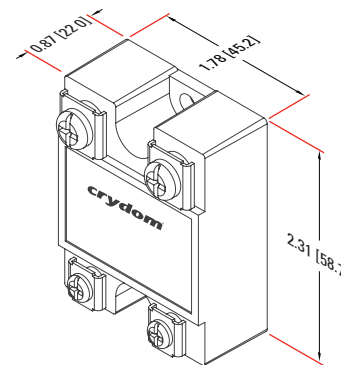
**B:** 36 VDC max., Hysteresis 11.5-12.0 VDC

**C:** 36 VDC max., Hysteresis 12.0-12.5 VDC

**D:** 36 VDC max., Hysteresis 23.0-24.0 VDC

**E:** 36 VDC max., Hysteresis 24.0-25.0 VDC

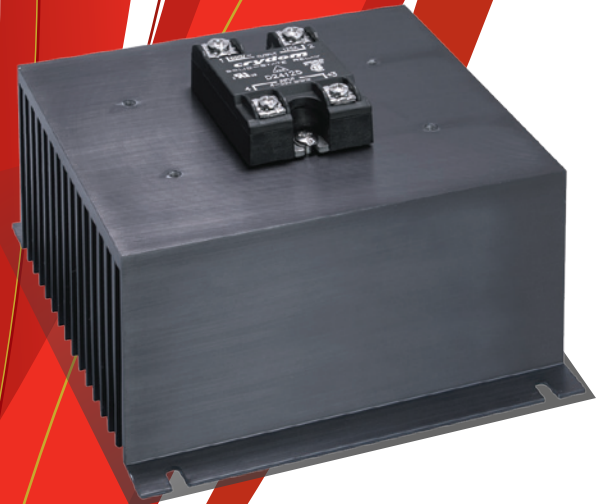
**F:** 36 VDC max., Hysteresis 25.6-26.6 VDC





# Assemblies

Crydom offers a **variety of “ready-to-use” assemblies** featuring proven Crydom Solid State Relays and Contactors installed in DIN Rail Sockets or on Panel or DIN Rail mounted Heat Sinks. Assemblies are **available for applications ranging from 1 to more than 80 Amps in both AC or DC output versions**. Any standard Crydom Panel Mount or SIP type PCB Mount SSR or Contactor can be offered as a “ready-to-use” Assembly. Contact the nearest Crydom Distributor, Representative or local Crydom Sales Office if you don't locate your exact needed Assembly in the catalog or in the Crydom website.



## Heat Sink / SSR Assemblies



- Standard single, dual and 3 phase SSRs mounted on high efficiency HS Series heat sinks
- Ready-to-use assemblies with optimum SSR / thermal pad / heat sink combination simplifying selection, ordering and installation
- Thermal efficiency ratings from 5.0°C/W to 0.25°C/W @ 40°C ambient
- Full SSR assembly ratings up to 82.5 Amps (single phase) or 27.5 Amps per phase (three phase) in a 40°C ambient
- DIN Rail and Panel mountable versions available for both stand-alone heat sinks and SSR assemblies (most models)
- Customized solutions available using single, dual and 3 phase SSRs
- Wide variety of accessories available

Notes: **A B C D E F**

### Total Number of Accepted Standard SSRs

- 1: 1 SSR (50, 30, 25, 20, 15 & 10 suffix only)
- 2: 1 or 2 SSRs (20, 17, 12 & 07 suffix only)
- 3: 1-3 SSRs or one 3phase (10, 07, 05, 03 & 02 suffix only)

### Standard Crydom SSR p/n

Series

**HS**

**17**

**2**

**DR**

**2**

**D2450**

### Thermal Resistance

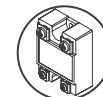
- 50: 5.0 °C/W (DR suffix only)
- 30: 3.0 °C/W
- 25: 2.5 °C/W
- 20: 2.0 °C/W
- 17: 1.7 °C/W
- 15: 1.5 °C/W
- 12: 1.2 °C/W
- 10: 1.0 °C/W
- 07: 0.7 °C/W
- 05: 0.5 °C/W
- 03: 0.36 °C/W
- 02: 0.25 °C/W

### DIN Rail Bracket

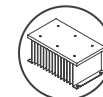
- Blank: Not included
- DR: Included (50, 30, 20, 15, 12 & 10 suffix only)

### Number of Mounted SSRs

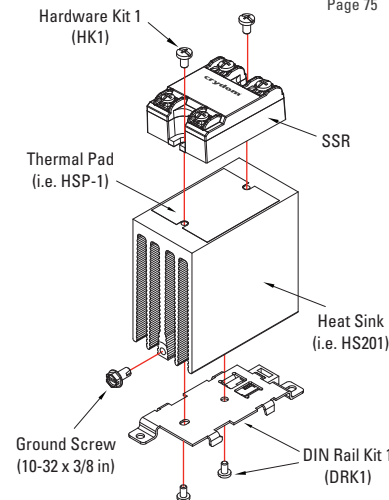
- Blank: 1
- 2: 2
- 3: 3



Panel Mount Relays  
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Heat Sinks &  
other Accessories  
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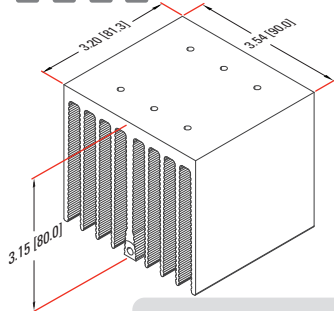


## Heat Sinks • HS122



- 1.2°C/W Thermal resistance
- Suitable for 1 or 2 single or dual SSRs
- Panel mountable or DIN Rail mountable version available as HS122DR
- Heat sink material is aluminum with black anodized finish

Notes: **A B J L**



### HS122DR includes

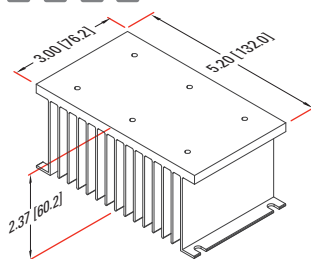
- Ground Screw (10-32 x 3/8 in)
- DIN Rail Kit 1 (DRK1)
- Heat Sink (HS122)
- Two Hardware Kits 1 (HK1)

## Heat Sinks • HS103



- 1.0°C/W Thermal resistance
- Suitable for 1, 2 or 3 single or dual SSRs; one 3 phase SSR
- Panel mountable or DIN Rail mountable version available as HS103DR
- Heat sink material is aluminum with black anodized finish

Notes: **A B J L**



### HS103DR includes

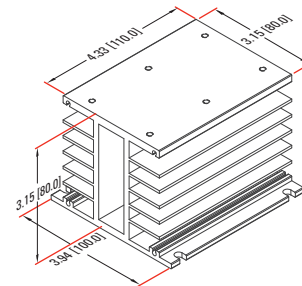
- Heat Sink (HS103)
- Extruded DIN Rail Bracket Fasteners
- Three Hardware Kits 1 (HK1)

## Heat Sinks • HS101



- 1.0°C/W Thermal resistance
- Suitable for 1 single or dual SSRs; one 3 phase SSR
- Panel mountable
- Heat sink material is aluminum with black anodized finish

Notes: **A B J L**

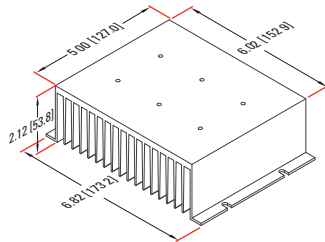


## Heat Sinks • HS073

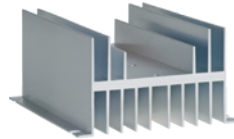


- 0.7°C/W Thermal resistance
- Suitable for 1, 2 or 3 single or dual SSRs; one 3 phase SSR
- Panel mountable
- Heat sink material is aluminum with black anodized finish

Notes: **A B J L**

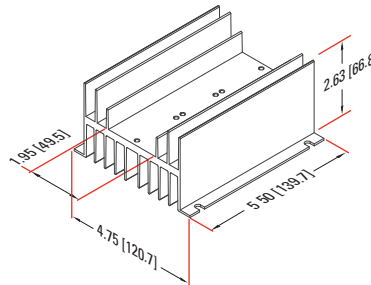


## Heat Sinks • HS072



- 0.7°C/W Thermal resistance
- Suitable for 1 or 2 single or dual SSRs
- Panel mountable
- Heat sink material is aluminum with natural finish

Notes: **A B J L**



## Heat Sinks • HS053



- 0.5°C/W Thermal resistance
- Suitable for 1, 2 or 3 single or dual SSRs; one 3 phase SSR
- Panel mountable
- Heat sink material is aluminum with black anodized finish

Notes: **A B J L**

