



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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crydom[®]

Solid State Relays & Contactors



The Global Expert in **Solid State Switching** Technology


Sensata
Technologies

crydom[®]

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 Sensata Technologies.

www.crydom.com



Sensata Technologies is one of the world's leading suppliers of sensing, electrical protection, control and power management solutions with operations and business centers in 13 countries. Sensata's products improve safety, efficiency and comfort for millions of people every day in automotive, appliance, aircraft, industrial, military, heavy vehicle, heating, air-conditioning and ventilation, data, telecommunications, recreational vehicle and marine applications. For more information please visit Sensata's website at:

www.sensata.com

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** All dimensions in drawings are in inches [millimeters] and are for reference only.
- B** Dimensional drawings shown are for illustrative purposes only. They do not represent the complete variety of products within each series. For complete dimensional drawings for a particular Crydom product visit the CAD Drawings section in the Crydom website.
- C** Part Number Nomenclature is color coded as follows:
 - Required for valid part number
 - For options only and not required for valid part number
- D** Not all part number combinations are available. Contact Crydom Sales Support for information on the availability of a specific part number.
- E** Safety agency approvals for SSR/Heat Sink Assemblies may vary depending upon selected SSR. Heat sinks do not require safety agency approval.
- F** The standard Crydom SSR/Heat Sink Assemblies are either DIN Rail or Panel Mounted depending upon model selected and are available with either one, two or three single or dual SSRs, or one three-phase SSR.
- G** Installing a CN Series SSR in a socket that does not have matching input/output specifications may result in non-operation or damage to either the SSR, socket or both. See socket-relay compatibility table available in CN Series SSR datasheet.
- H** 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.
- J** Listed agency approvals may not apply to all part numbers available within a series. To determine agency approvals for a specific part number contact Crydom Technical Support.
- K** Required external heat sink for all ratings.
- L** Heat sink includes the necessary hardware to mount the relay(s) onto the heat sink. The number of hardware kits (HK1 or HKM1) included depends upon the number and type of SSRs possible to install on each heat sink.



Panel Mount

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AC

DC



PCB Mount

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AC

DC



DIN Rail Mount

Page 47

AC

DC



Plug-In Mount

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AC

DC



Assemblies

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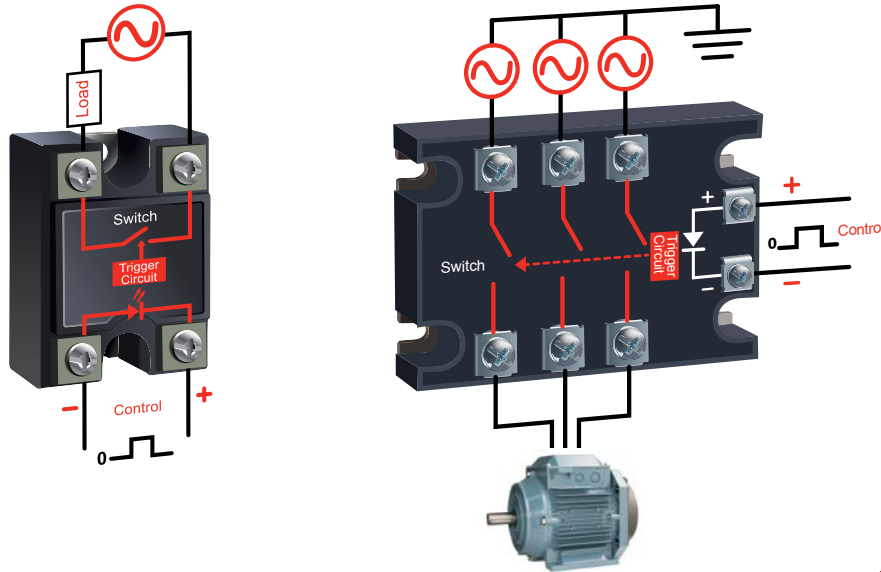


Accessories

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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.



Why use Solid State Switching Technology?



Long life



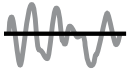
Compatibility with control systems



Quiet operation



Fast switching



Minimum electrical noise



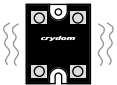
Position insensitive



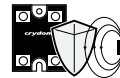
Low power consumption



Reduced weight



Shock & vibration resistant



Magnetic noise immunity



Ideal for harsh environments



Reduced energy cost

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.

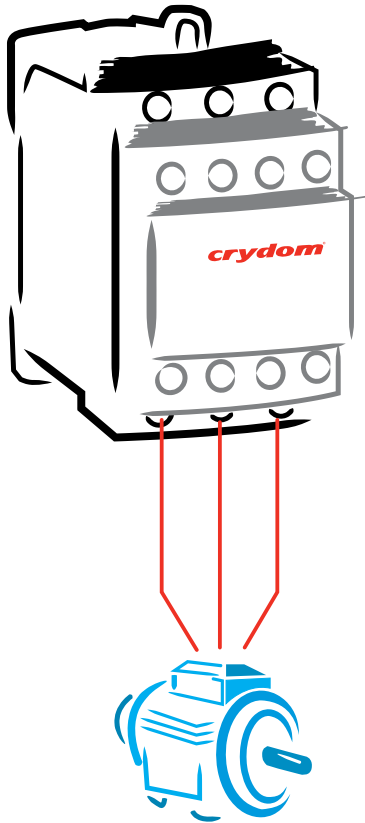
Benefits: Long life, silent operation, high speed switching, endurance, mechanical shock and vibration resistance, position insensitive, logic compatibility, arc and bounce free switching, and low electromagnetic emissions.

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.

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, manufactures 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.**

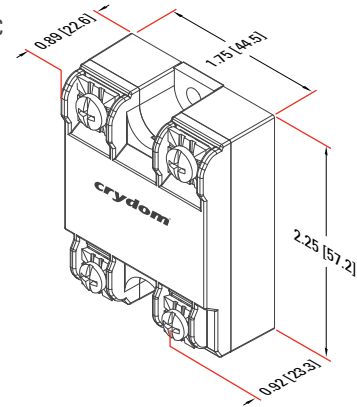
Ratings of contactors, whether Solid State or Mechanical, always include allowed motor load ratings and allowed resistive load ratings. The reason for this is again tradition because for most mechanical contactors, the switching capabilities and life expectancy vary significantly for each type of load. 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”.

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)

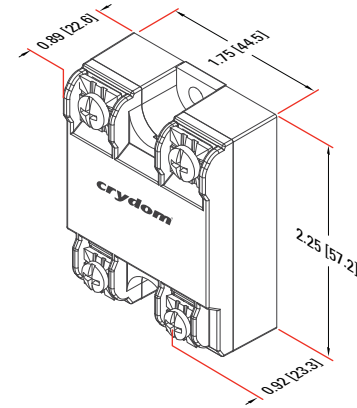


Notes: **A B C D J K**

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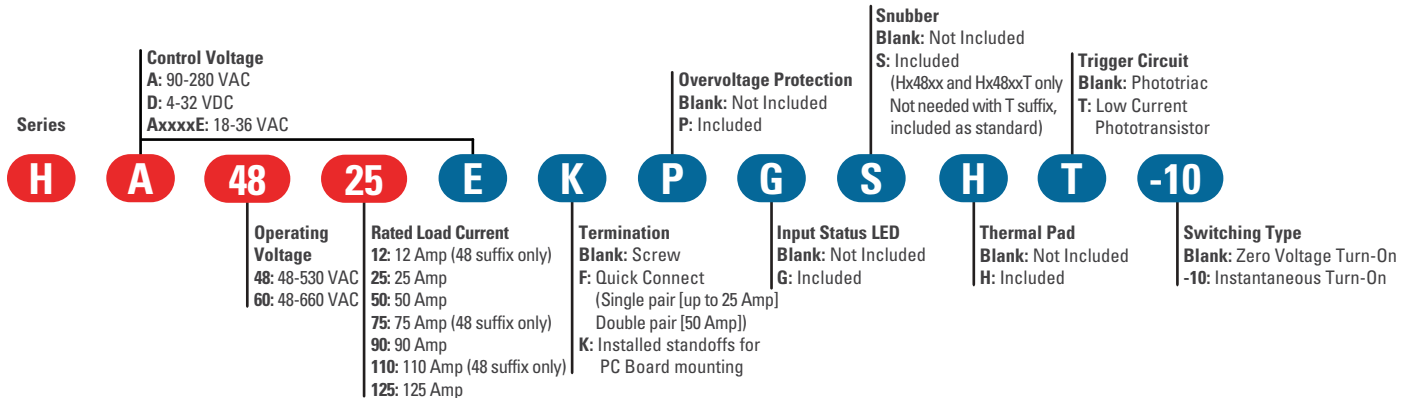
Complete specifications of these & other Crydom products available at: www.crydom.com

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

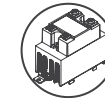
AC
PCB Mount • DIN Rail Mount • Plug-In Mount • Assemblies • Accessories

Series H1 • 25-125 Amps

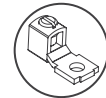


- Solid State Relay with ratings from 25 to 125 Amps @ 48-690 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible 4-32 VDC Control Voltage
- Low output off-state leakage current (2WD & 6WD suffixes only, snubberless)
- Available with Zero 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**

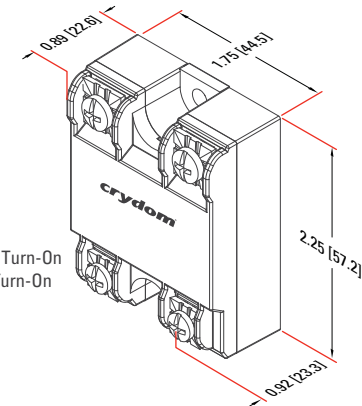


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<p>Series</p> <p>H1</p>	<p>2WD</p> <p>48</p> <p>25</p>	<p>K</p> <p>P</p> <p>G</p> <p>H</p> <p>-10</p>	<p>Rated Load Current</p> <p>25: 25 Amp 50: 50 Amp 75: 75 Amp 90: 90 Amp 125: 125 Amp (2D & 2WD suffixes only)</p> <p>Transient Overvoltage</p> <p>2D: 1200 Vpk (with Snubber) 2WD: 1200 Vpk (without Snubber) 6WD: 1600 Vpk (without Snubber)</p> <p>Overvoltage Protection (2D & 2WD suffixes only)</p> <p>Blank: Not Included P: Included</p> <p>Thermal Pad</p> <p>Blank: Not Included H: Included</p>	<p>Operating Voltage</p> <p>48: 48-530 VAC (2D suffix only) 48-660 VAC (2WD suffix only) 60: 48-690 VAC (6WD suffix only)</p> <p>Termination</p> <p>Blank: Screw F: Quick Connect (Single pair [25 Amp] Double pair [50 Amp]) K: Installed standoffs for PC Board mounting</p> <p>Input Status LED</p> <p>Blank: Not Included G: Included</p> <p>Switching Type</p> <p>Blank: Zero Voltage Turn-On -10: Instantaneous Turn-On</p>
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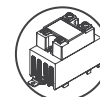


CW Series • 10-125 Amps

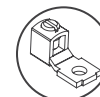


- Heavy duty Solid State Relay with ratings from 10 to 125 Amps @ 24-280 VAC or 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Flexible 3-32 VDC, 18-36 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)

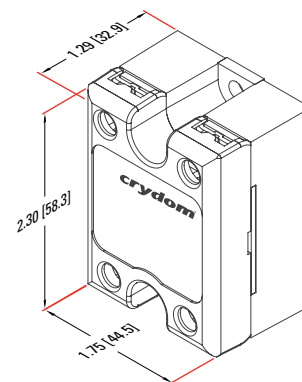
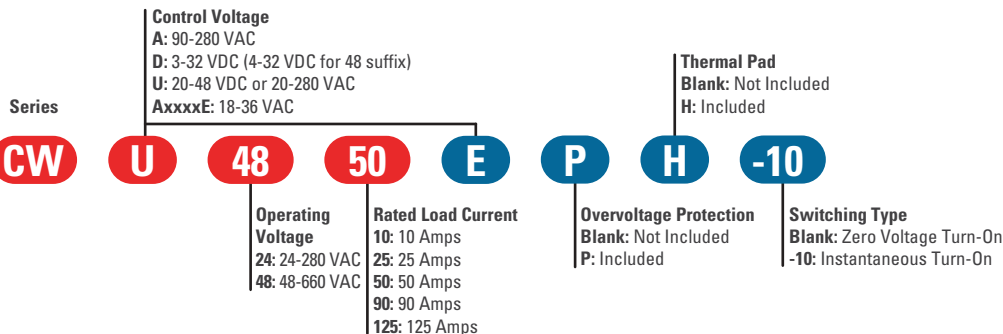
Notes: **A B C D J K**



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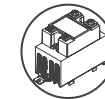
Panel Mount
AC
PCB Mount • DIN Rail Mount • Plug-In Mount • Assemblies • Accessories

CSW Series • 10-90 Amps

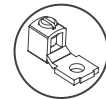


- Heavy duty Solid State Relay with ratings from 10 to 90 Amps @ 24-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Flexible 3-32 VDC Control Voltage
- Low 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**

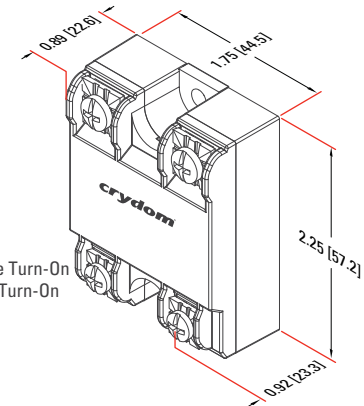


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Series	Operating Voltage 24: 24-280 VAC	Termination Blank: Screw F: Quick Connect (Single pair (up to 25 Amp) Double pair (50 Amp)) K: Installed standoffs for PC Board mounting	Input Status LED Blank: Not Included G: Included	Thermal Pad Blank: Not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

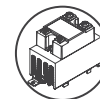


CL Series • 5-10 Amps

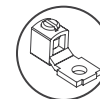


- Economical Solid State Relay with ratings of 5 or 10 Amps @ 24-280 VAC
- Optional IP20 "touch safe" Cover for additional user protection
- Economical Triac based construction
- LED indicator for easy identification of control status
- Regulated AC or DC Control Voltage
- Available with Zero Voltage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

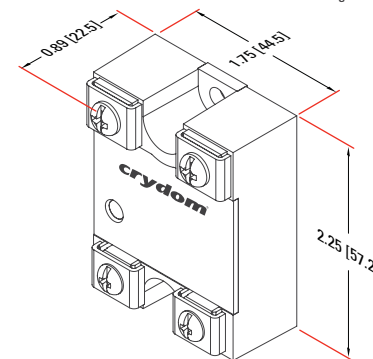
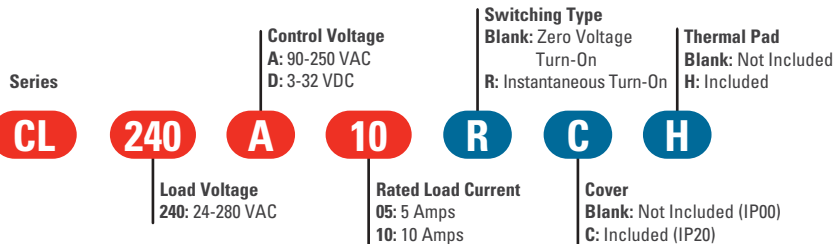
Notes: **A B C D J K**



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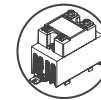


EL Series • 5-20 Amps



- Mini-puck Solid State Relay to maximize panel space
- Ratings up to 20 Amps @ 24-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous Turn-On (phase control or inductive loads) output
- Quick Connect control & output termination for easy installation
- 3.75k VAC optical isolation

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



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Thermal Pad
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Series

EL

240A

5

R

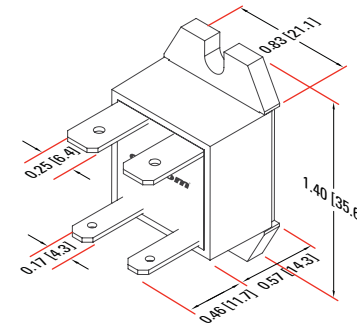
05

Output Voltage
240 A: 24-280 VAC

Rated Load Current
5: 5 Amps
10: 10 Amps
20: 20 Amps

Control Voltage
05: 4-8 VDC
12: 10-14 VDC
24: 21-27 VDC

Switching Type
Blank: Zero Voltage Turn-On
R: Instantaneous Turn-On

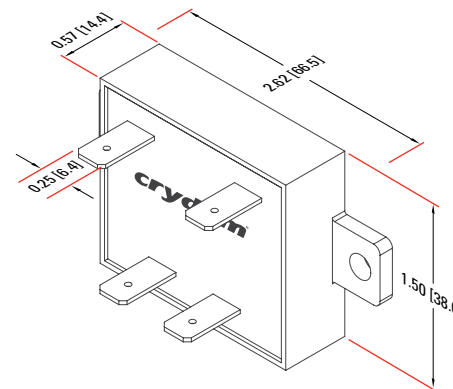
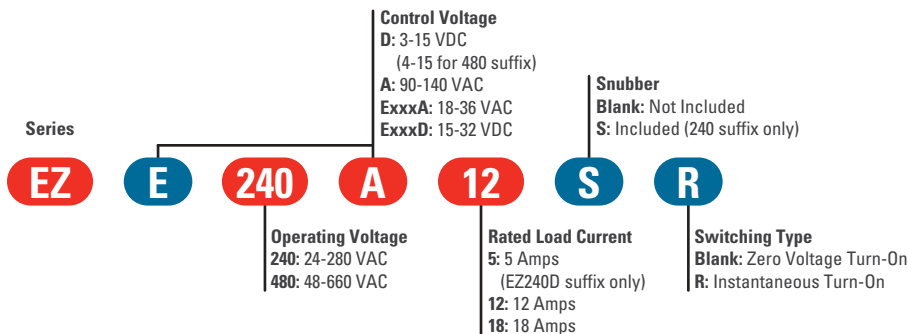


EZ Series • 5-18 Amps



- Low profile Solid State Relay
- Ratings from 5 to 18 Amps @ 24-280 VAC or 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Elective R-C Snubber network (240 VAC models) for additional dv/dt attenuation
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous Turn-On (phase control or inductive loads) output
- AC or DC Control Voltage options
- Quick Connect control & output termination for easy installation

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



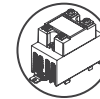
Specifications are subject to change without prior notice

MCBC Series • 25-90 Amps

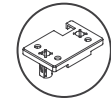


- Microprocessor based burst fire controller / SSR
- Ratings from 25 to 90 Amps @ 48-530 VAC
- R-C Snubber network for additional dv/dt attenuation
- Industry standard analogue input (voltage or current) or potentiometer control
- LED indicator for easy identification of output status
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Two time-base periods available (10 & 20 cycles)
- Designed to provide proportional AC power to a wide range of resistive loads

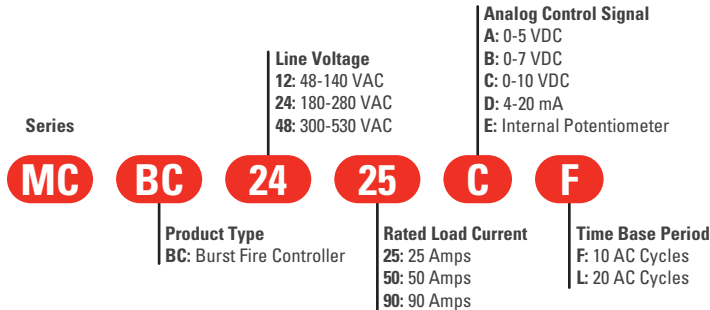
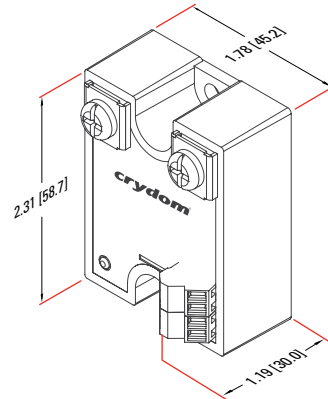
Notes: **A B D J K**



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Protective Cover
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MCPC Series • 25-90 Amps

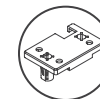


- Microprocessor based phase angle controller / SSR
- Ratings from 25 to 90 Amps @ 48-530 VAC
- R-C Snubber network for additional dv/dt attenuation
- Industry standard analogue input (voltage or current) or potentiometer control for setpoint
- LED indicator for easy identification of output status
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Designed to provide proportional AC power to a wide range of resistive loads

Notes: **A B D J K**



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Protective Cover
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Series

MC PC 24 25 C

Line Voltage

12: 48-140 VAC
24: 180-280 VAC
48: 300-530 VAC

Analog Control Signal

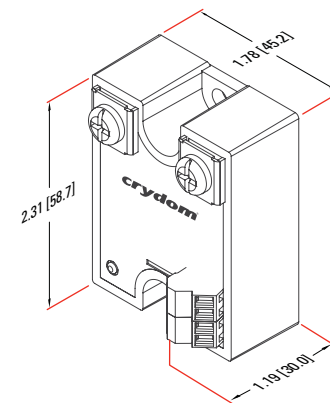
A: 0-5 VDC
B: 0-7 VDC
C: 0-10 VDC
D: 4-20 mA
E: Internal Potentiometer

Product Type

PC: Phase-Angle Controller

Rated Load Current

25: 25 Amps
50: 50 Amps
90: 90 Amps



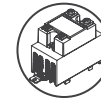
Specifications are subject to change without prior notice

PCV Series • 15-90 Amps

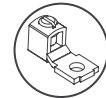


- Easy to use proportional (phase angle) controller
- Ratings from 15 to 90 Amps @ 100-240 VAC
- Simple 2-7 VDC or 2-10 VDC analogue Control Voltage
- Designed to provide proportional AC power to a wide range of resistive loads

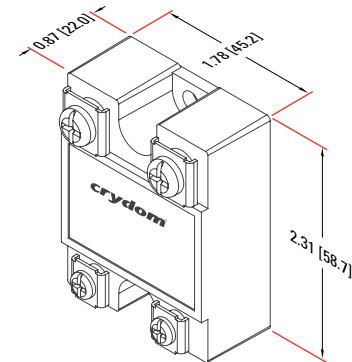
Notes: **A B D J K**



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Compatible
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Page 73



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)

LPCV Series • 15-110 Amps

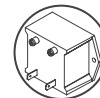


Panel Mount
AC



- Easy to use linear proportional (phase angle) controller
- Ratings from 15 to 110 Amps @ 20-300 VAC
- Simple 0-5 VDC, 0-10 VDC or 4-20 mAmps analogue Control Voltage
- Included 12 VDC source for use with external potentiometer control
- Requires accessory power supply PS120 or PS240 to provide 20 VAC for internal logic circuit
- Designed to provide proportional AC power to a wide range of resistive loads

Notes: **A B D J K**



Compatible Accessories
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Series

Operating Voltage
24: 20-300 VAC

10

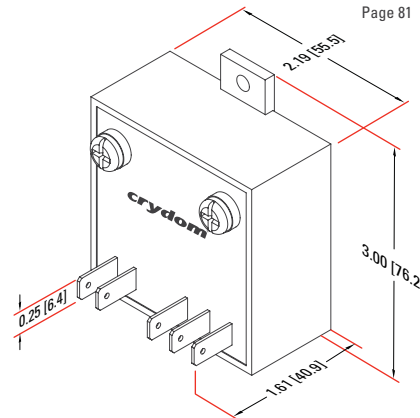
LPCV

24

25

Control Voltage
5: 0-5 VDC
10: 0-10 VDC
20: 4-20 mAmps

Rated Load Current
15: 15 Amps
25: 25 Amps
40: 40 Amps
75: 75 Amps
110: 110 Amps



Specifications are subject to change without prior notice

SMR-6 Series • 25-90 Amps

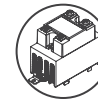


Panel Mount AC
 Accessories • Assemblies • Plug-In Mount • DIN Rail Mount • PCB Mount

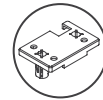


- Solid State Relay with built-in current monitoring & diagnostics circuit
- Ratings from 25 to 90 Amps @ 60-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Inverting or non-inverting Control Voltage (flexible 8-32 VDC)
- Normally Open or Normally Closed alarm output
- Wide range of built-in fault condition monitoring alarms
- Zero Voltage Turn-On (resistive loads) output
- UL 508 overload endurance rated

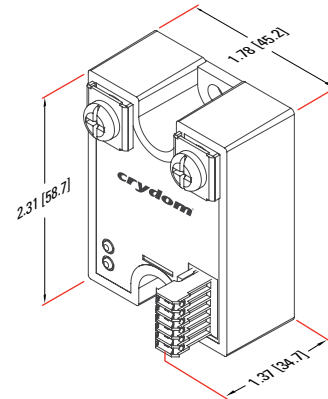
Notes: **A B D J K**



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Page 71



Protective Cover
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Series

SMR

24

25

-6

Operating Voltage
 24: 60-280 VAC
 48: 96-553 VAC

Rated Load Current
 25: 25 Amps
 50: 50 Amps
 90: 90 Amps

Features
Input: Inverting or Non Inverting
Alarm Output: Normally Open or Normally Closed

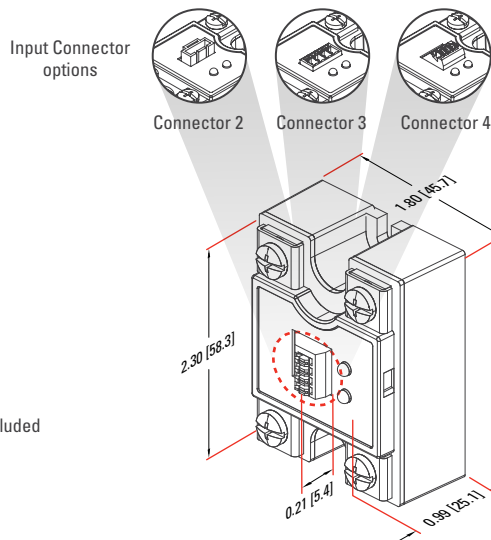


Evolution Dual Series • 25-50 Amps



- Independently controlled dual output Solid State Relay
- Ratings of 25 & 50 Amps @ 24-280 VAC or 48-600 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Optional IP20 "touch safe" Cover for additional user protection
- Flexible 4-32 VDC Control Voltage
- Three Input Connector options for additional assembly flexibility
- LED indicator for each output channel for easy identification of control status
- Zero Voltage Turn-On (resistive loads) output

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



Series

C **D** **24** **25** **W** **2** **V** **H**

Operating Voltage

24: 24-280 VAC
48: 48-660 VAC

Control Voltage

W: 4-32 VDC

Output Terminal Orientation

U: A channel top,
B channel bottom
V: A channel on left,
B channel on right

Cover

C: Included
D: Not Included

Rated Load Current

25: 25 Amps
50: 50 Amps

Input Connector

2: Key Locking Connector
3: 4 Pin Connector
accepting Screw Terminals
4: 4 Pin Spring Terminal *

Thermal Pad

Blank: Not Included

H: Included

* Drawing shown on the right

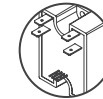
Specifications are subject to change without prior notice

Series 1 Duals • 25-40 Amps



- Independently controlled dual output Solid State Relay
- Ratings of 25 Amps & 40 Amps @ 24-280 VAC or 48-530 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- 4-15 VDC or 15-32 VDC Control Voltage
- Available with Zero Voltage Turn-On (resistive loads) or Instantaneous Turn-On (phase control or inductive loads) output
- Quick Connect termination; 120/240 V models (D24) include pin control termination
- UL 508 overload endurance rated

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



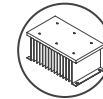
120/240 V Model (D24)



480 V Model (H12D48)

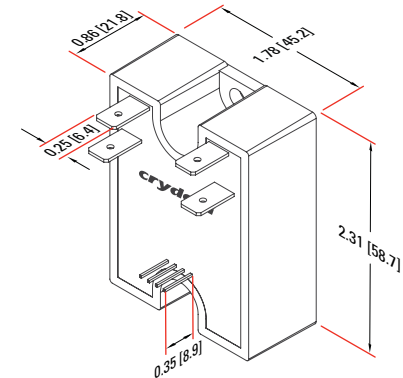


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Heat Sinks & other Accessories Page 75

<p>Series</p> <p>H12D48</p> <p>Operating Voltage D24: 24-280 VAC H12D48: 48-530 VAC</p>	<p>Rated Load Current 25: 25 Amps 40: 40 Amps</p> <p>25</p>	<p>Thermal Pad Blank: Not Included H: Included</p> <p>D</p>	<p>Control Voltage D: 4-15 VDC DE: 15-32 VDC</p> <p>H</p>	<p>Switching Type Blank: Zero Voltage Turn-On -10: Instantaneous Turn-On</p> <p>-10</p>
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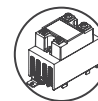


53TP Series • 25-50 Amps

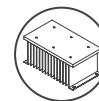


- 3 Phase Solid State Contactor with ratings of 25 & 50 Amps per phase @ 48-530 VAC
- Up to 7.5 HP / 5.5 kW Motor Controller ratings
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical 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 Instantaneous Turn-On (phase control or inductive loads) output
- Optional IP20 "touch safe" Cover (shown) provides additional user protection
- Internal TVS 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

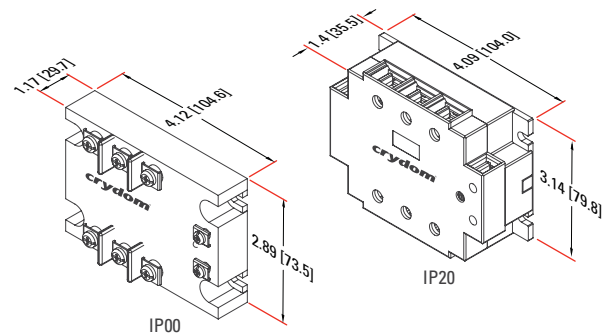
Notes: **A B C D J K**



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Series

Rated Load Current

25: 25 Amps
50: 50 Amps

Thermal Pad

Blank: Not Included
H: Included

A

53TP

25

D

H

-10

Control Voltage

- A: 90-280 VAC (without IP20 cover)
- B: 90-140 VAC (with IP20 cover)
- C: 180-280 VAC (with IP20 cover)
- D: 4-32 VDC
- E: 18-36 VAC (with IP20 cover)

Cover

- D: Not Included (IP00)
- C: Included (IP20)

Switching Type

- Blank: Zero Voltage Turn-On
- 10: Instantaneous Turn-On

53RV Series • 25-50 Amps

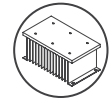


- Motor Reversing Contactor with ratings of 25 & 50 Amps per phase @ 48-530 VAC
- Up to 7.5 HP / 5.5 kW Motor Controller ratings
- Built-in interlock circuit protects the relay/load if both Forward & Reverse inputs are simultaneously actuated
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Direct Bond Copper (DBC) substrate for superior thermal performance
- R-C Snubber network for additional dv/dt attenuation
- Flexible 4-32 VDC Control Voltage
- LED indicators for easy identification of the Forward / Reverse control status
- IP20 "touch safe" Cover provides additional user 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

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



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Series	Type	Cover
D	RV	C
Control Voltage D: 4-32 VDC	RV: 3 Phase Motor Reversing SSR	C: Included
53	25	H
	Rated Load Current/phase 25: 25 Amps 50: 50 Amps	Thermal Pad Blank: Not Included H: Included

