

crydom[®]

Solid State Relays & Contactors



The Global Expert in Solid State Switching Technology

A brand of
CST
CUSTOM SENSORS & TECHNOLOGIES



About us

Crydom, a brand of Custom Sensors & Technologies (CST) and **global expert in Solid State Switching Technology**, has a distinguished record of providing high quality, world class Solid State Relay and Control Products for a variety of heating, lighting and motion control applications. Crydom products, coupled with **unparalleled technical support, timely delivery and competitive pricing**, provide Crydom's clients with the innovative products and support necessary to succeed in today's competitive and fast paced global markets.

Crydom's extensive selection of standard off-the-shelf products is constantly being updated and expanded through its continuous improvement and aggressive new product development programs. Utilizing state of the art designs, materials and technology, Crydom offers a wide range of AC and DC output SSRs in industry standard Panel Mount, PCB Mount and DIN Rail packages, all **meeting global safety and standards agency requirements** such as CE, RoHS, UL, IEC, etc.

Bolstered by four decades of Solid State Relay operations experience, Crydom specializes **adapted and fully custom-designed SSR products** for nearly any application where unique specifications and optimized performance are critical for success.

Crydom's modern purpose-built **100,000 square foot manufacturing facility** houses all aspects of its ISO certified operation including Design and Development Engineering, Manufacturing Operations and Quality Assurance, Customer Service, Finance, Marketing and General Management, permitting close coordination of all aspects of Crydom's activities. Applications Engineering and Sales support are both performed in the field to provide Crydom's Customers with the unparalleled technical and commercial support.

To learn more about Crydom Solid State Switching technology and products visit **www.crydom.com** or contact your authorized Crydom Distributor or Crydom Customer Service Representative today.

www.crydom.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 of 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 pre-installed single, dual or 3 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 consult agency approvals for a specific part number contact Crydom Technical Support.
- K** Required external heat sink for all ratings.



Panel Mount

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AC

DC



PCB Mount

Page 35

AC

DC



DIN Rail Mount

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AC

DC



Plug-In Mount

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AC

DC



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Applications

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



Heating Control

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

Benefits: Temperature accuracy, long life, no maintenance, safe product, easy to interface. Suitable for heater, fan, blower and valve control.



Lighting Control

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

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



Motion Control

Includes elevators, lifts, hoists, exercise equipment, conveyor systems, solar, 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.

For technical assistance in selecting the Crydom product best suited for your application contact the nearest Crydom Distributor, Representative, local Crydom sales office or contact Crydom Technical Support.

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?**

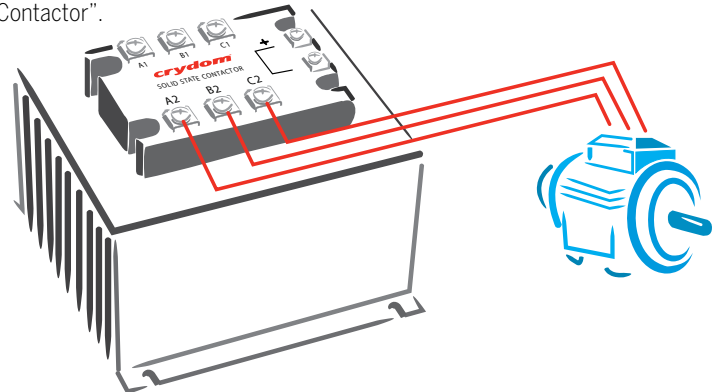
Remarkably, **there is very little actual difference**. They use similar power semiconductors and control circuits, and in some cases, even the same housings. SSRs, being considered as components, are applied in a large variety of applications and uses. SSCs, are generally applied in 3 phase AC heater 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 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".



Panel Mount

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 100 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.



AC Output

AC Output			Rating Amps													
Page	Series	Description	5	10	12	15	18	20	25	40	50	75	90	110	125	
Solid State Relays																
7	Series 1	280 V		■					■	■	■	■	■	■	■	
8	HA/HD	530 V		■					■		■	■	■	■	■	
9	Series H1	660 V							■		■	■	■		■	
10	CW	HD 660 V		■					■				■		■	
11	CSW	HD 280 V		■					■		■	■	■			
12	CL	Econ 280 V	■	■												
13	EL	Mini 280 V	■	■				■								
14	EZ	Low Pro 660 V			■			■								
Control Solid State Relays																
15	MCBC	Burst Ctrl							■		■		■			
16	MCPC	Phase Ctrl							■		■		■			
17	MCTC	Temp Ctrl							■		■		■			
18	MCS	Soft Start/Stop							■		■		■			
19	PCV	V in Phase Ctrl				■			■	■			■	■		
20	LPCV	Linear Ph Ctrl				■			■	■			■		■	
21	RPC	R in Phase Ctrl				■			■	■						
22	SMR-6	Monitoring							■		■		■			
Solid State Dual Relays																
23	Evolution Duals	Screw Term							■		■					
24	Series 1 Duals	Quick Connect							■	■						
Solid State Contactors																
25	53TP	3 Phase							■		■					
26	53RV	Reversing							■		■					

DC Output

DC Output			Rating Amps									
Page	Series	Description	3	5	7	10	12	25	40	60	80	100
Solid State Relays												
27	DC60	1-60 V	■	■	■							
28	DC	1-500 V				■		■		■	■	■
29	1-DC	1-400 V			■	■	■	■	■	■	■	■
30	D06D	Econ 1-60 V								■	■	■
31	EL	Mini 1-100 V		■		■		■				
32	SSC	1-1000 V							■			
33	LVD	Disconnect								■	■	■
Solid State Contactors												
34	DP	Reversing					■	■	■	■		

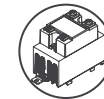
Series 1 • 10-125 Amps



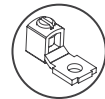
- Crydom's Signature family of Solid State Relays
- Ratings from 10 to 125 Amps @ 24-280 VAC and from 12 to 90 Amps @ 80-530 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible 3-32 VDC, 18-36 VAC or 90-280 VAC Control Voltage

- "Ultra-low" input current draw (2-4 mAmps DC typical)
- Includes standard 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 C D J K**

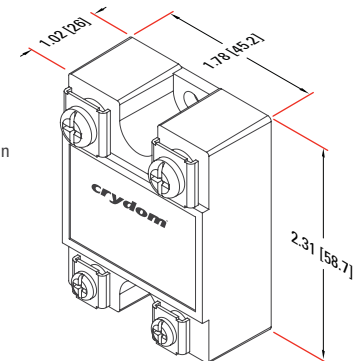


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4	A	12	10	E	F	P	G	H	-10	-B
Output Frequency Blank: 47-63 Hz 4: 400 Hz (12 & 24 suffix only)	Control Voltage A: 90-280 VAC D: 3-32 VDC AxxxxE: 18-36 VAC	Operating Voltage 12: 24-140 VAC 24: 24-280 VAC 48: 80-530 VAC	Rated Load Current 10: 10 Amps (12 & 24 suffix only) 25: 25 Amps 40: 40 Amps 50: 50 Amps 75: 75 Amps 90: 90 Amps 110: 110 Amps (24 suffix only) 125: 125 Amps (24 suffix only)		Termination (12 & 24 suffix only) Blank: Screw F: Quick Connect (Up to 50 Amps only)	Overvoltage Protection (12 & 24 suffix only) Blank: Not Included P: Included	Input Status LED (12 & 24 suffix only) Blank: Not Included G: Included	Thermal Pad Blank: Not Included H: Included	Switching Type Blank: Zero Voltage Turn-On -10: Random Turn-On	Output Type -B: Normally Closed (Not available with -10 option)

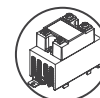


HA/HD Series • 12-125 Amps

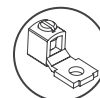


- Solid State Relay with ratings from 12 to 125 Amps @ 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible 3-32 VDC, 18-36 VAC or 90-280 VAC Control Voltage
- "Ultra-low" input current draw (2-4 mAmps DC typical)
- R-C Snubber network for additional dv/dt attenuation (for HA48/HD48 models only)
- 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

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

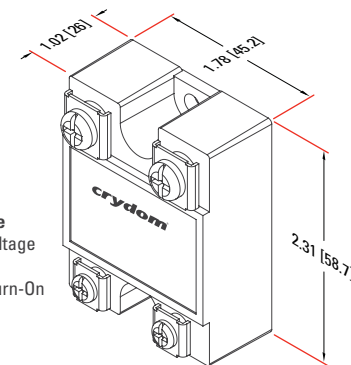


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Series	Control Voltage A: 90-280 VAC D: 3-32 VDC AxxxxE: 18-36 VAC	Operating Voltage 48: 48-530 VAC 60: 48-660 VAC	Rated Load Current 12: 12 Amps (48 suffix only) 25: 25 Amps 50: 50 Amps 75: 75 Amps (48 suffix only) 90: 90 Amps 110: 110 Amps (48 suffix only) 125: 125 Amps	Termination Blank: Screw F: Quick Connect (Up to 50 Amps models)	Overvoltage Protection Blank: Not Included P: Included	Input Status LED Blank: Not Included G: Included	Thermal Pad Blank: Not Included H: Included	Switching Type Blank: Zero Voltage Turn-On -10: Random Turn-On
H								
A								
48								
25								
E								
F								
P								
G								
H								
-10								



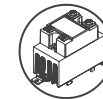
Series H1 • 25-125 Amps



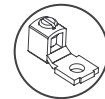
- Solid State Relay with ratings from 25 to 125 Amps @ 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible 4-32 VDC Control Voltage
- Low output off-state leakage current
- Available with Zero Voltage Turn-On (resistive loads) or 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
- UL 508 overload endurance rated

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

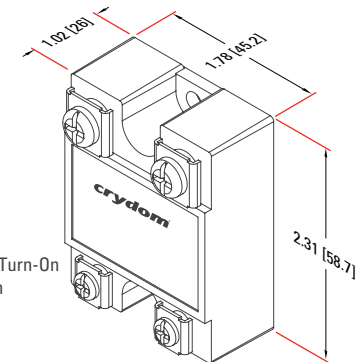
Series	Transient Overvoltage	Rated Load Current	Overvoltage Protection (2D & 2WD suffixes only)	Thermal Pad
H1	2D: 1200 Vpk (with Snubber) 2WD: 1200 Vpk (without Snubber) 6WD: 1600 Vpk (without Snubber)	25: 25 Amps 50: 50 Amps 75: 75 Amps 90: 90 Amps 125: 125 Amps (2D & 2WD suffixes only)	Blank: Not Included P: Included	Blank: Not Included H: Included
2WD				
48				
25				
F				
P				
G				
H				
-10				
	Operating Voltage 48: 48-530 VAC (2D suffix only) 48-660 VAC (2WD suffix only) 60: 48-660 VAC (6WD suffix only)		Termination Blank: Screw F: Quick Connect (Up to 50 Amps models)	Input Status LED Blank: Not Included G: Included
				Switching Type Blank: Zero Voltage Turn-On -10: Random Turn-On



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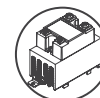


CW Series • 10-125 Amps

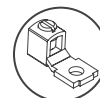


- Heavy duty Solid State Relay with ratings from 10 to 125 Amps @ 12-280 VAC or 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Flexible 3-32 VDC, 18-36 VAC or 90-280 VAC Control Voltage
- 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
- 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 grease using the "H" suffix
- UL 508 overload endurance rated

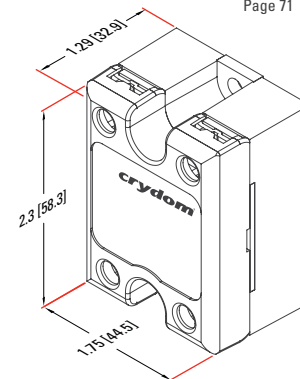
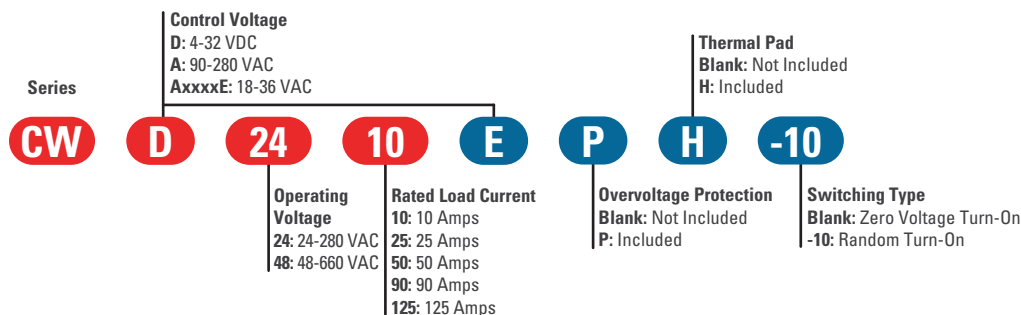
Notes: **A B C D J K**



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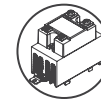


CSW Series • 10-90 Amps

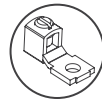


- Heavy duty Solid State Relay with ratings from 10 to 90 Amps @ 12-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical environments
- Flexible 3-32 VDC Control Voltage
- Low output off-state leakage current
- Elective R-C Snubber network for additional dv/dt attenuation
- 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
- UL 508 overload endurance rated

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

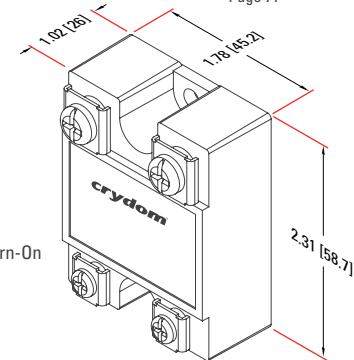


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Series	Operating Voltage	Rated Load Current	Termination	Input Status LED	Thermal Pad	Switching Type
CSW	24 : 24-280 VAC	10 : 10 Amps 25: 25 Amps 50: 50 Amps 75: 75 Amps 90: 90 Amps	F : Quick Connect (Up to 50 Amps models)	G : Included	H : Included	-10 : Random Turn-On
			P : Included	S : Included		

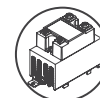


CL Series • 5-10 Amps

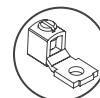


- Economical Solid State Relay with ratings of 5 or 10 Amps @ 24-280 VAC
- Optional IP20 "touch safe" Cover for additional user protection
- Economical Triac based construction
- LED indicator for easy identification of control status
- Regulated AC or DC Control Voltage
- Available with Zero Voltage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

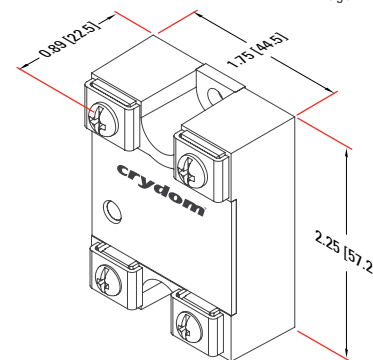
Notes: **A B C D J K**



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Series

CL

240

Load Voltage
240: 24-280 VAC

A

Control Voltage
A: 90-250 VAC
D: 3-32 VDC

10

Rated Load Current
05: 5 Amps
10: 10 Amps

R

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

C

Cover
Blank: Not Included
C: Included

H

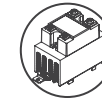
Thermal Pad
Blank: Not Included
H: Included

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 Random 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**



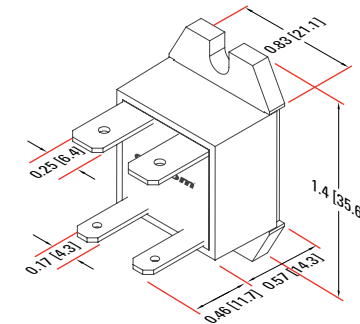
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Heat Sinks
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Thermal Pad
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Series

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

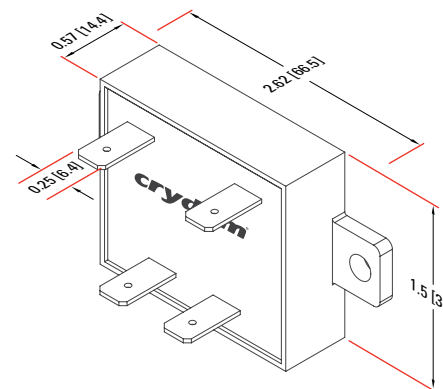
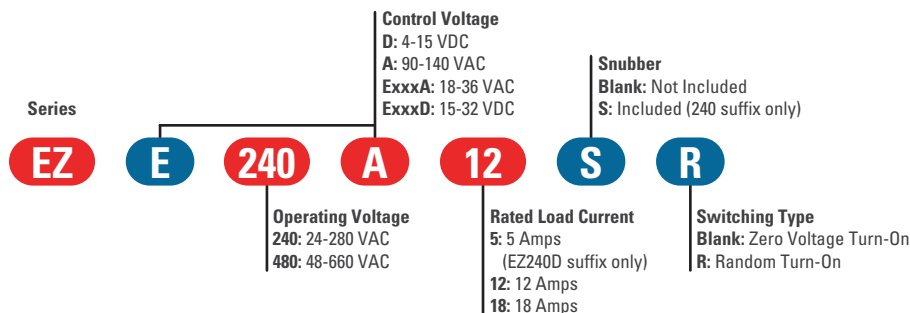
Switching Type
Blank: Zero Voltage Turn-On
R: Random Turn-On

EZ Series • 5-18 Amps



- Low profile Solid State Relay
- Ratings from 5 to 18 Amps @ 48-600 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 Random 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**



MCBC Series • 25-90 Amps

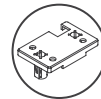


- Microprocessor based burst fire controller / SSR
- Ratings from 25 to 90 Amps @ 48-530 VAC
- R-C Snubber network for additional dv/dt attenuation
- Industry standard analogue input (voltage or current) or potentiometer control
- LED indicator for easy identification of output status
- Back-to-back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

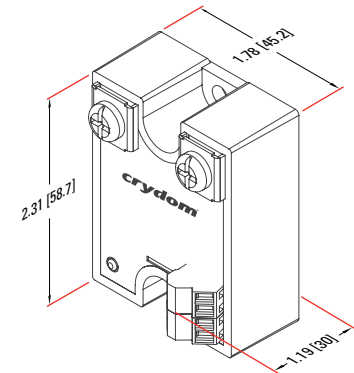
Notes: **A B D J K**



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Protective Cover
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Series

MC

BC

24

25

C

F

Line Voltage

12: 48-140 Vrms
24: 180-280 Vrms
48: 330-530 Vrms

Analog Control Signal

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

Product Type

BC: Burst Fire Controller

Rated Load Current

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

Time Base Period

F: 10 AC Cycles
L: 20 AC Cycles

MCPC Series • 25-90 Amps



- Microprocessor based phase angle controller / SSR
- Ratings from 25 to 90 Amps @ 48-530 VAC
- 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 Vrms
24: 180-280 Vrms
48: 330-530 Vrms

Analog Control Signal

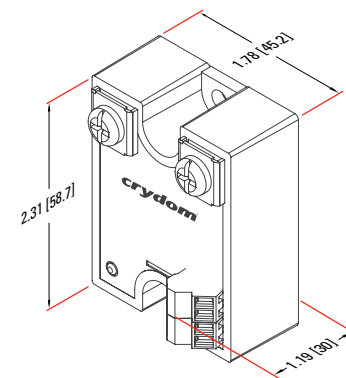
A: 0-5 VDC
B: 0-7 VDC
C: 0-10 VDC
D: 4-20 mA
E: Internal Potentiometer

Product Type

PC: Phase-Angle Controller

Rated Load Current

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



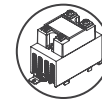
Specifications are subject to change without prior notice

MCTC Series • 25-90 Amps

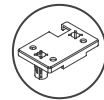


- Microprocessor based temperature controller / SSR
- Ratings from 25 to 90 Amps @ 48-530 VAC
- Industry standard analogue input (voltage or current) for temperature setpoint
- Direct J or K Thermocouple input
- LED indicators for easy identification of output and temperature status
- Open Thermocouple protection
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Available Temperature Range option "R" for refrigeration cycle including 2 minute short cycle protection
- Option "E" provides a regulated 5 V/10 mAmps source for use with external potentiometer control

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

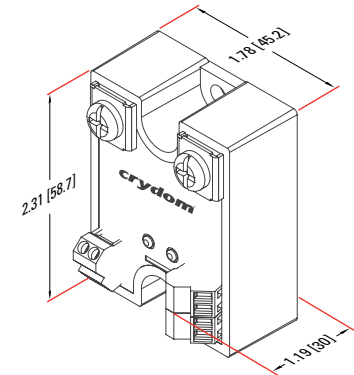


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Series	Line Voltage	Thermocouple Type	Setpoint Input	Additional Features
MC	24: 24-280 Vrms 48: 48-530 Vrms	J: Type J K: Type K	A: 0-5 VDC B: 0.7 VDC C: 0-10 VDC D: 4-20 mA	E: 5 VDC regulated output for external setpoint (setpoint A option only)
TC	Product Type TC: Temperature Controller			
24				
25	Rated Load Current 25: 25 Amps 50: 50 Amps 90: 90 Amps			
J				
L			Temperature Range L: 100°F to 500°F, 38°C to 260°C H: 300°F to 700°F, 149°C to 371°C 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	
A				
E				

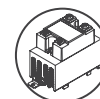


MCS Series • 25-90 Amps

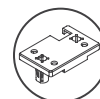


- Microprocessor based Soft Start / Soft Stop controller / SSR
- Ratings from 25 to 90 Amps @ 48-530 VAC
- R-C Snubber network for additional dv/dt attenuation
- Industry standard analogue input (voltage or current) or potentiometer control
- LED indicator for easy identification of output status
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Adjustable ramp rates

Notes: **A B D J K**



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Series

MC

ST

24

25

C

S

Line Voltage

12: 48-140 Vrms

24: 180-280 Vrms

48: 330-530 Vrms

Analog Control Signal

A: 0-5 VDC

B: 0-7 VDC

C: 0-10 VDC

D: 4-20 mA

E: Internal Potentiometer

Product Type

ST: Soft Start

SP: Soft Stop

SS: Soft Start/Stop

Rated Load Current

25: 25 Amps

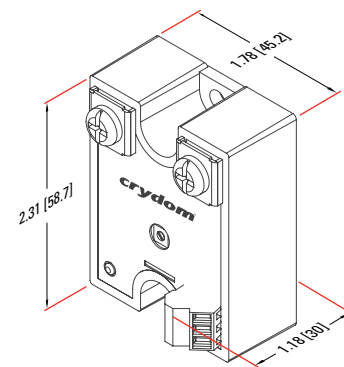
50: 50 Amps

90: 90 Amps

Ramp Time On/Off

S: 100 ms-1 sec

M: 1 sec-10 sec



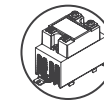
PCV Series • 15-90 Amps



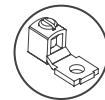
- Easy to use proportional (phase angle) controller
- Ratings from 15 to 90 Amps @ 100-240 VAC
- Simple 2-7 VDC or 2-10 VDC analogue Control Voltage
- Designed to provide proportional AC power to a wide range of resistive loads

Notes: **A B D J K**

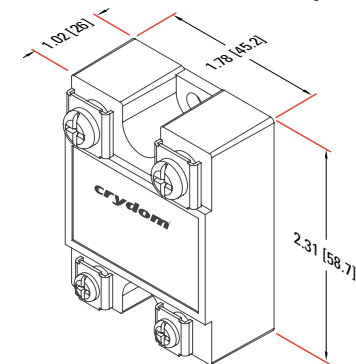
Series		Operating Voltage
		24: 100-240 VAC
10	PCV	24
Control Voltage		Rated Load Current
7: 2-7 VDC		15: 15 Amps
10: 2-10 VDC		25: 25 Amps
		50: 50 Amps (10 prefix only)
		75: 75 Amps (10 prefix only)
		90: 90 Amps (10 prefix only)



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LPCV Series • 15-110 Amps



- 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 logic internal logic circuit
- Designed to provide proportional AC power to a wide range of resistive loads

Notes: **A B D J K**



Series

10

LPCV

24

25

Control Voltage

5: 0-5 VDC

10: 0-10 VDC

20: 4-20 mAmps

Operating Voltage
24: 20-300 VAC

Rated Load Current

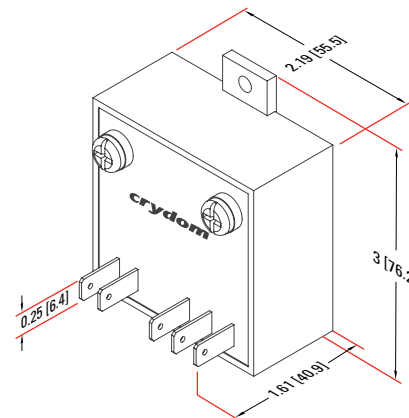
15: 15 Amps

25: 25 Amps

40: 40 Amps

75: 75 Amps

110: 110 Amps



Specifications are subject to change without prior notice

RPC Series • 15-40 Amps



- Easy to use proportional (phase angle) controller
- Ratings from 15 to 40 Amps @ 130 VAC, 240 VAC or 480 VAC
- Simple 150k or 1M Ohm potentiometer control
- Designed to provide proportional AC power to a wide range of resistive loads

Notes: **A B D J K**

Series

RPC

24

25

Operating Voltage

12: 90-130 VAC

24: 200-240 VAC

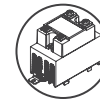
48: 400-480 VAC

Rated Load Current

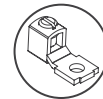
15: 15 Amps

25: 25 Amps

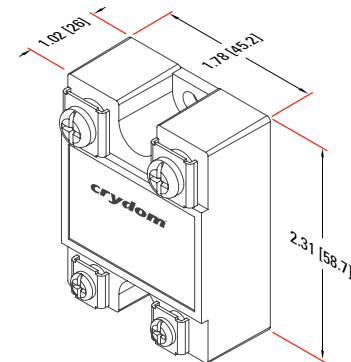
40: 40 Amps



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SMR-6 Series • 25-90 Amps

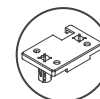


- Solid State Relay with built-in current monitoring & diagnostics circuit
- Ratings from 25 to 90 Amps @ 60-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Inverting or non-inverting Control Voltage (flexible 8-32 VDC)
- Normally Open or 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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Series

SMR

24

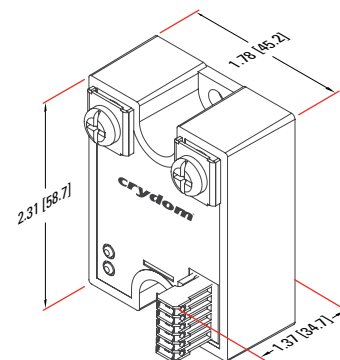
25

-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



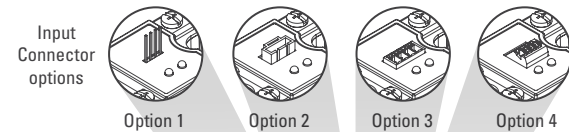
Specifications are subject to change without prior notice

Evolution Dual Series • 25-50 Amps



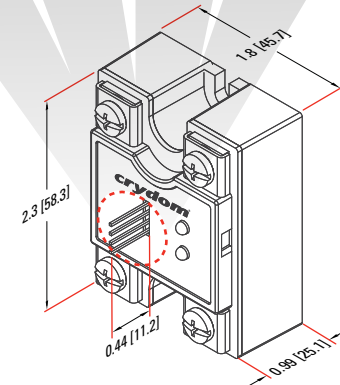
- Independently controlled dual output Solid State Relay
- Ratings of 25 & 50 Amps @ 24-280 VAC or 48-600 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Optional IP20 "touch safe" Cover for additional user protection
- 4-15 VDC & 15-32 VDC or flexible 4-32 VDC Control Voltage
- Four Input Connector options for additional assembly flexibility
- LED indicator for each output channel for easy identification of control status
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output

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



Series	Operating Voltage	Control Voltage	Output Terminal Orientation	Thermal Pad
C	24: 24-280 VAC 48: 48-600 VAC	D: 4-15 VDC E: 15-32 VDC W: 4-32 VDC	U: A channel top, B channel bottom V: A channel on left, B channel on right	Blank: Not Included H: Included
D	Rated Load Current	Input Connector	Switching Type	
24	25: 25 Amps 50: 50 Amps	1: 4 Pin Standard 2: Key Locking Connector 3: 4 Pin Connector accepting Screw Terminals 4: 4 Pin Spring Terminal	Blank: Zero Voltage Turn-On R: Random Turn-On	
25				
D				
1				
V				
R				
H				

Cover
C: Included
D: Not Included

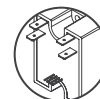


Series 1 Duals • 25-40 Amps

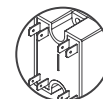


- Independently controlled dual output Solid State Relay
- Ratings of 25 Amps & 40 Amps @ 24-280 VAC or 48-530 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- 4-15 VDC or 15-32 VDC Control Voltage
- Available with Zero Voltage Turn-On (resistive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

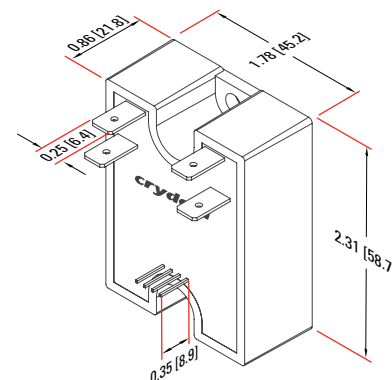


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Series	Rated Load Current 25: 25 Amps 40: 40 Amps	Thermal Pad Blank: Not Included H: Included
H12D48		
25		
D		
H		
-10		
Operating Voltage D24: 24-280 VAC H12D48: 48-530 VAC	Control Voltage D: 4-15 VDC DE: 15-32 VDC	Switching Type Blank: Zero Voltage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



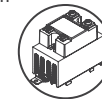
Specifications are subject to change without prior notice

53TP Series • 25-50 Amps

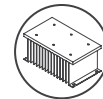


- 3 Phase Solid State Contactor with ratings of 25 & 50 Amps per phase @ 48-530 VAC
- Up to 7.5 HP / 5.5 kW Motor Controller ratings
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- EMC compliant (LEVEL 3) for reliable operation in harsh electrical 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 Random 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 grease using the "H" suffix
- UL 508 overload endurance rated

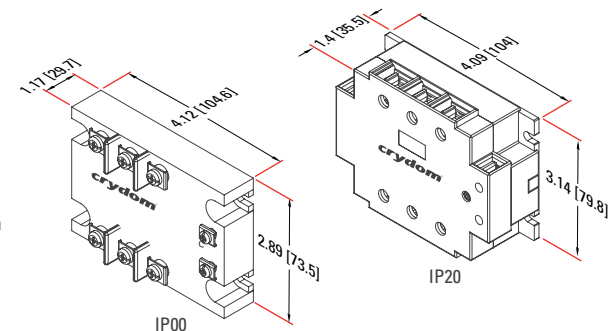
Notes: **A B C D J K**



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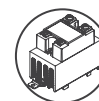
Series		Rated Load Current	Thermal Pad		
		25: 25 Amps 50: 50 Amps	Blank: Not Included H: Included		
A	53TP	25	D	H	-10
Control Voltage		Cover		Switching Type	
A: 90-280 VAC (without IP20 cover)		D: Not Included (IP00)		Blank: Zero Voltage Turn-On	
B: 90-140 VAC (with IP20 cover)		C: Included (IP20)		-10: Random Turn-On	
C: 180-280 VAC (with IP20 cover)					
D: 4-32 VDC					
E: 18-36 VAC (with IP20 cover)					

53RV Series • 25-50 Amps

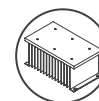


- Motor Reversing Contactor with ratings of 25 & 50 Amps per phase @ 48-530 VAC
- Up to 7.5 HP / 5.5 kW Motor Controller ratings
- Built-in interlock circuit protects the relay/load if both Forward & Reverse inputs are simultaneously actuated
- Back-to-back SCR output provides added reliability in commercial 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 grease using the "H" suffix
- UL 508 overload endurance rated

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

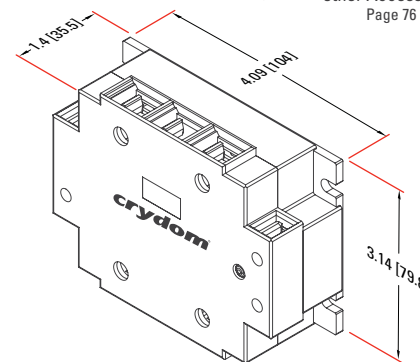


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Series		Type	Cover	
RV: 3 Phase Motor Reversing SSR		C: Included		
D	53	RV	25	C
Control Voltage D: 4-32 VDC			Rated Load Current/phase 25: 25 Amps 50: 50 Amps	Thermal Pad Blank: Not Included H: Included

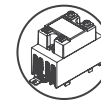


DC60 Series • 3-7 Amps

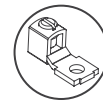


- Economical bipolar transistor output Solid State Relay
- Ratings up to 7 Amps @ 60 VDC
- Available with either a Normally Open (standard) or Normally Closed ("-B" option) output
- Flexible 3.5-32 VDC or 90-280 VAC/DC Control Voltage
- Ideally suited for both resistive and inductive loads (inductive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

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

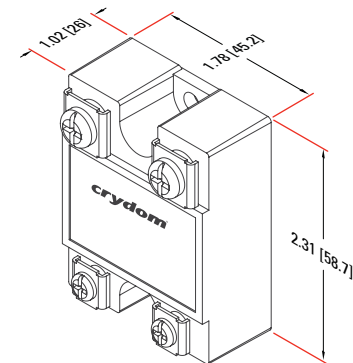


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Series	Control Voltage S: 3.5-32 VDC SA: 90-280 VAC	Output Type Blank: Normally Open -B: Normally Closed
DC60	SA	-B
	3	
	Rated Load Current 3: 3 Amps 5: 5 Amps 7: 7 Amps	

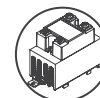


DC Series • 10-100 Amps

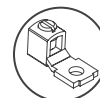


- Solid State Relay with ratings up to 100 Amps @ 60 VDC, 100 Amps @ 100 VDC, 60 Amps @ 200 VDC and 20 Amps @ 400 VDC
- Logic compatible control options of either 4 to 32 VDC or 90 to 140 VAC
- Optional IP20 "touch safe" Cover for additional user protection & thermal interface pad
- Optically isolated 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

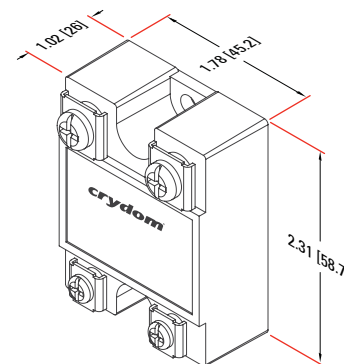
Notes: **A B C D J K**



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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)

1-DC Series • 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

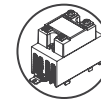
07

Operating Voltage

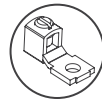
1D: 0-100 VDC
2D: 0-200 VDC
4D: 0-400 VDC
5D: 0-500 VDC

Rated Load Current

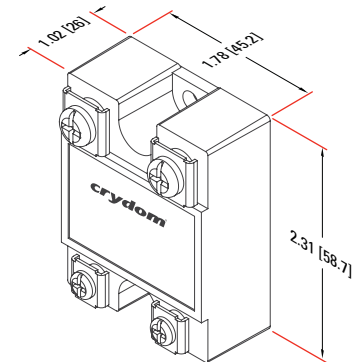
07: 7 Amps
10: 10 Amps (500 VDC only)
12: 12 Amps (not for 500 VDC)
20: 20 Amps (100 VDC only)
40: 40 Amps (100 & 200 VDC only)
60: 60 Amps (100 VDC only)
80: 80 Amps (100 VDC only)
100: 100 Amps (100 VDC only)



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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**



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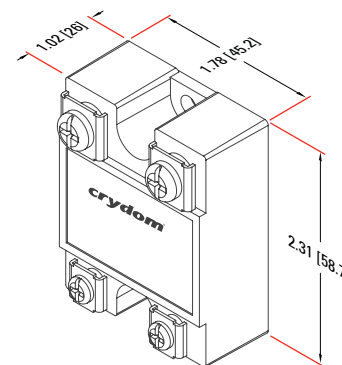
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Series

Series	Operating Voltage
D	06D: 0-60 VDC
06D	
60	

Rated Load Current

60: 60 Amps
80: 80 Amps
100: 100 Amps



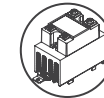
Specifications are subject to change without prior notice

EL Series • 5-10 Amps

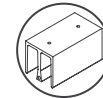


- Mini-puck Solid State Relay to maximize panel space
- Ratings of 5 & 10 Amps @ 3-100 VDC
- Easily paralleled for high current applications
- Low impedance MOSFET output minimizes total power dissipation
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)
- Quick Connect control & output termination for easy installation

Notes: **A B D J K**



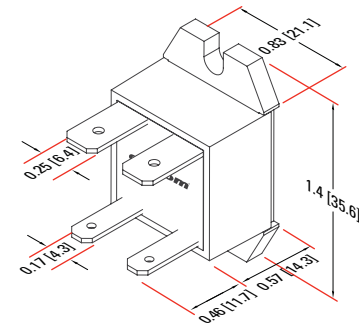
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Thermal Pad
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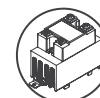
Series		Rated Load Current	Control Voltage
EL	100D	5: 5 Amps 10: 10 Amps	05: 4-8 VDC 12: 10-14 VDC 24: 21-27 VDC
	5		
	05		
	100D		
		Output Voltage	
		100D: 3-100 VDC	

SSC Series • 25 Amps



- Solid State Relay with ratings of 25 Amps @ up to 1k VDC
- High voltage IGBT output
- Internal TVS included in 800 VDC model eliminates the need for external Overvoltage Protection (800 suffix only)
- 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**



Assemblies
Page 69



Compatible
Accessories
Page 71

Series

SSC

800

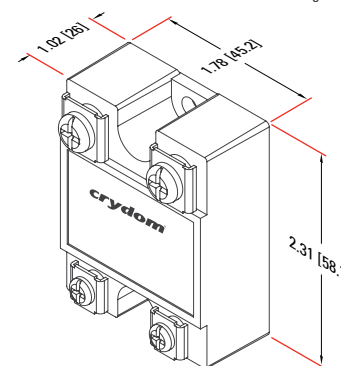
25

24

Rated Load Current
25: 25 Amps

Operating Voltage
800: 0-800 VDC
1000: 0-1000 VDC

Control Voltage
12: 8-16 VDC
24: 20-28 VDC
36: 32-40 VDC



Specifications are subject to change without prior notice

LVD Series • 40-100 Amps



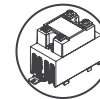
- Low Voltage Disconnect with ratings up to 100 Amps @ 3-75 VDC
- Monitors and automatically disconnects battery systems from loads at low voltage conditions to prevent deep discharge of the batteries
- Low impedance MOSFET output minimizes total power dissipation
- Six DC control ranges available for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

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

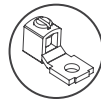
Series	Operating Voltage 75: 3-75 VDC	Rated Load Current 40: 40 Amps 60: 60 Amps 80: 80 Amps 100: 100 Amps	Thermal Pad Blank: Not Included H: Included
LVD	75	A	40
			H

Control Voltage Code

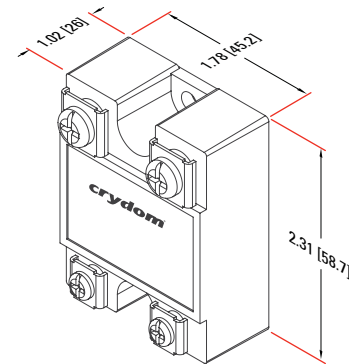
A: 18 VDC max., Hysteresis 11.0-11.5 VDC
B: 18 VDC max., Hysteresis 11.5-12.0 VDC
C: 18 VDC max., Hysteresis 12.0-12.5 VDC
D: 36 VDC max., Hysteresis 23.0-24.0 VDC
E: 36 VDC max., Hysteresis 24.0-25.0 VDC
F: 36 VDC max., Hysteresis 25.6-26.6 VDC



Assemblies
Page 69



Compatible
Accessories
Page 71

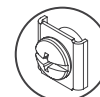


DP Series • 20-60 Amps

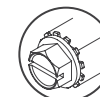


- Motor Reversing Contactor with ratings up to 60 Amps @ 48 VDC
- Low impedance MOSFET switches in an H-Bridge configuration for motor reversing
- Control features to combine Soft Start/Ramp Up, Soft Stop/Ramp Down & Braking functions on each polarity
- Built-in interlock circuit protects the relay/load 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 C D J K**



20 Amps
Model



40 & 60 Amps
Model



Assemblies
Page 69



Compatible
Accessories
Page 71

Series

DP

4R

Function
4R: 4 Channel DC Reversing

SB

Start Mode
Blank: Instant Start
SA: Soft Start/Ramp Up, 0.2 sec
SB: Soft Start/Ramp Up, 0.5 sec
SC: Soft Start/Ramp Up, 1 sec

60

Operating Voltage
60: 48 VDC

D

Control Voltage
D: 4.5-15 VDC
E: 18-32 VDC

40

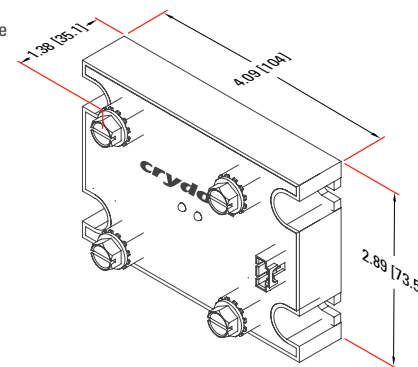
Load Rated Current
20: 20 Amps
40: 40 Amps
60: 60 Amps

B

Stop Mode
Blank: Stop Mode matches Start Mode
B2: Dynamic Brake, 0.2 sec
B5: Dynamic Brake, 0.5 sec
B8: Dynamic Brake, 0.8 sec
B: Dynamic Brake, Continuous

H

Thermal Pad
Blank: Not Included
H: Included



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.

AC Output

AC Output			Rating Amps										
Page	Series	Description	1	1.5	2	3	4	5	8	12	25		
Solid State Relays													
36	ASO	Mini SIP		■	■								
37	LC	Mini SIP		■	■								
38	MP	SIP				■	■						
39	CX	SIP						■					
40	MCX	SIP						■					
41	LS	SIP							■	■			
42	PF	SIP										■	
43	SPF	SIP										■	
44	DPA	DIP	■										
45	SDV	DIP		■									

DC Output

DC Output			Rating Amps				
Page	Series	Description	3	5	6	10	20
			Solid State Relays				
46	DMO	Mini SIP	■				
47	CMX	SIP	■	■	■	■	■
48	MP	SIP	■				



ASO Series • 1.5-2 Amps



- Compact design Solid State Relay ideally suited for high density PCB applications
- Ratings up to 2 Amps @ 12-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output
- Solderable 0.015" x 0.030" pins can also plug fit SIP type IC socket

Notes: **A B C D J**

Series

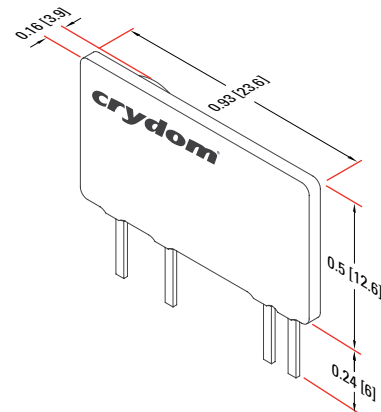
Rated Load Current
241: 1.5 Amps
242: 2 Amps

ASO

241

R

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

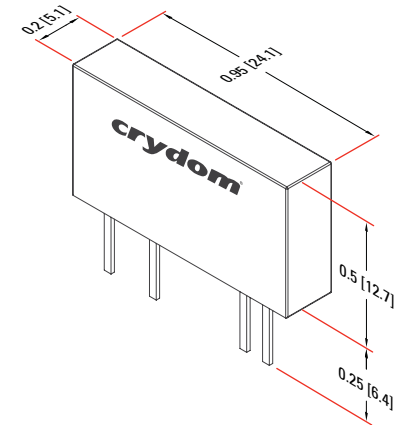
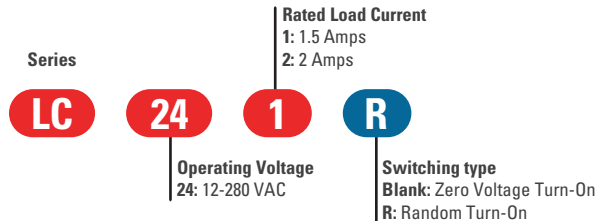


LC Series • 1.5-2 Amps



- Compact design Solid State Relay ideally suited for high density PCB applications
- Ratings up to 2 Amps @ 12-280 VAC
- 4-10 VDC Control Voltage
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output

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



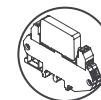
MP Series • 3-4 Amps



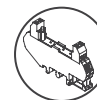
- SIP Solid State Relay ideally suited for high density PCB applications
- Ratings up to 4 Amps @ 24-280 VAC
- Control Voltage of 3-32 VDC
- 10 mm plastic housing allows for operation at -40°C

Notes: **A B D J**

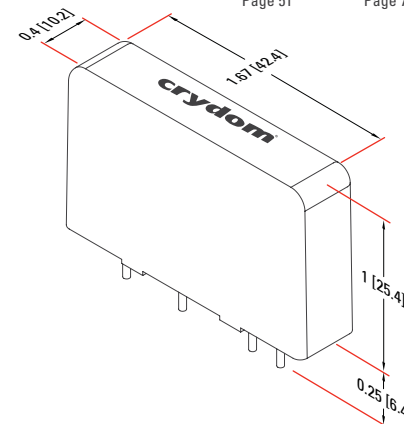
Series	Operating Voltage 120: 12-140 VAC 240: 24-280 VAC	Rated Load Current 3: 3 Amps 4: 4 Amps (240 suffix only)
MP	240	D
		3
	Control Voltage D: 3-32 VDC	



DIN Rail Model
Page 51



Sockets
Page 77



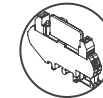
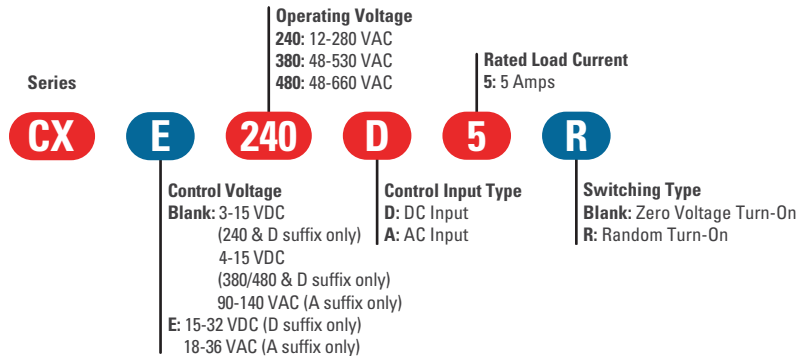
Specifications are subject to change without prior notice

CX Series • 5 Amps

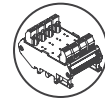


- SIP Solid State Relay ideally suited for high density PCB applications
- Ratings up to 5 Amps @ 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- High surge current rating
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output
- AC or DC Control Voltage options

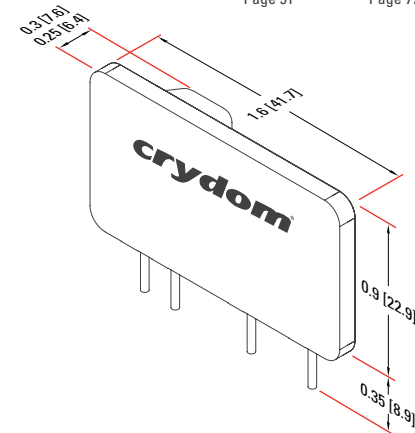
Notes: **A B C D J**



DIN Rail Model
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Sockets
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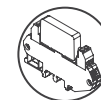


MCX Series • 5 Amps



- SIP Solid State Relay ideally suited for high density PCB applications
- 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
- 10 mm plastic housing allows for operation at -40°C

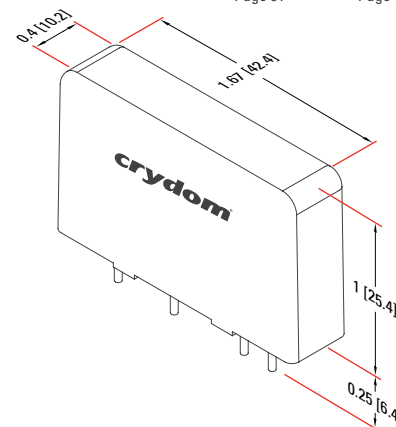
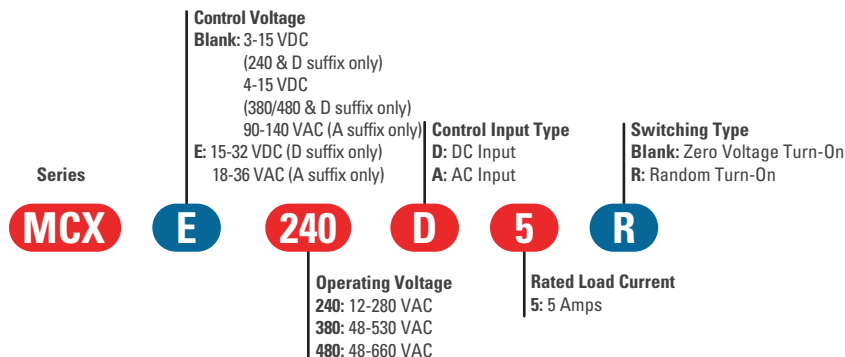
Notes: **A B C D J**



DIN Rail Model
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Sockets
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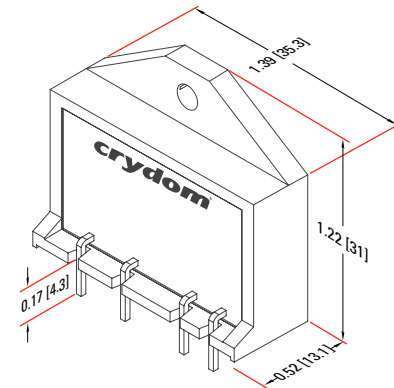
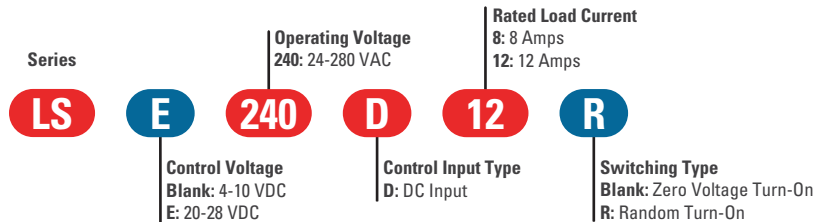
Specifications are subject to change without prior notice

LS Series • 8-12 Amps



- SIP Solid State Relay ideally suited for high density PCB applications
- Ratings up to 12 Amps @ 24-280 VAC with external heat sink
- 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

Notes: **A B C D J**



PF Series • 25 Amps



- SIP Solid State Relay ideally suited for high density PCB applications
- Ratings up to 10 (convection) or 25 Amps (forced air flow) @ 48-660 VAC
- 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
- AC or DC Control Voltage options

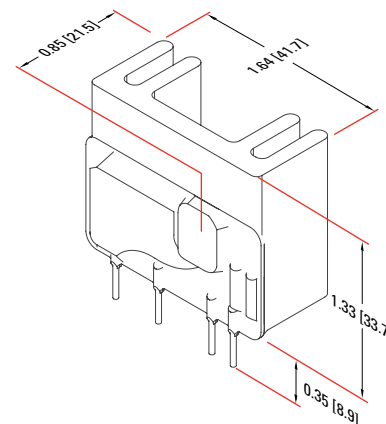
Notes: **A B C D J**



DIN Rail Model
Page 51



Sockets
Page 77



Series

PF

E

240

D

25

R

Operating Voltage
240: 12-280 VAC
380: 48-530 VAC
480: 48-660 VAC

Rated Load Current
25: 25 Amps

Control Voltage

Blank: 3-15 VDC
(240 & D suffix 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)

Control Input Type

D: DC Input

A: AC Input

Switching Type

Blank: Zero Voltage Turn-On

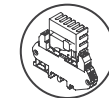
R: Random Turn-On

SPF Series • 25 Amps

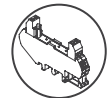


- SIP Solid State Relay ideally suited for high density PCB applications
- Ratings up to 10 (convection, vertical or horizontal mounting) or 25 Amps (forced air flow) @ 48-660 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output
- AC or DC Control Voltage

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

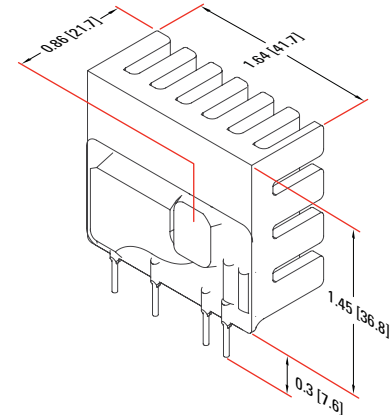


DIN Rail Model
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Sockets
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Series	Operating Voltage		Rated Load Current		
SPF	E	240	D	25	R
	Control Voltage		Control Input Type		Switching Type
	Blank: 3-15 VDC (for 240) 4-15 VDC (for 380/480)		D: DC Input A: AC Input		Blank: Zero Voltage Turn-On R: Random Turn-On
	E: 15-32 VDC 18-36 VAC				



DPA Series • 1 Amp



- DIP Solid State Relay ideally suited for high density PCB applications
- Ratings to 1 Amp @ 280 VAC
- Control options include 3.5-10 VDC or 10-35 mAmps DC
- 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
- Solderable Pin layout fits IC grid pattern and pluggable IC DIP type sockets

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

Series

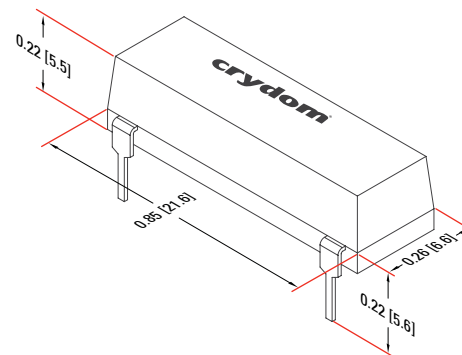
DPA

41

19

Operating Voltage
41: 20-140 VAC
61: 20-280 VAC

Control Voltage
11: 10-35 mA DC
19: 3.5-10 VDC

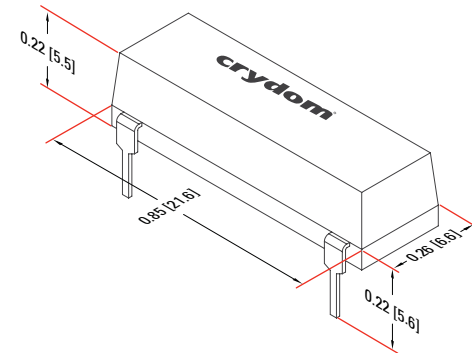
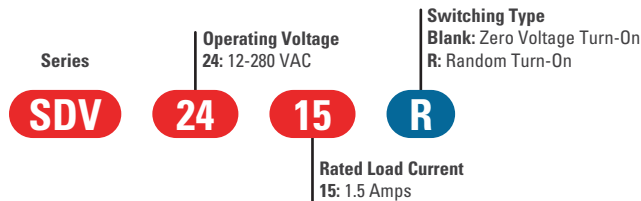


SDV Series • 1.5 Amps



- DIP Solid State Relay ideally suited for high density PCB applications
- Ratings to 1.5 Amps @ 280 VAC
- Control Voltage of 3.5-10 VDC
- 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
- Solderable Pin layout fits IC grid pattern and pluggable IC DIP type sockets

Notes: **A B C D J**



DMO Series • 3 Amps



- 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

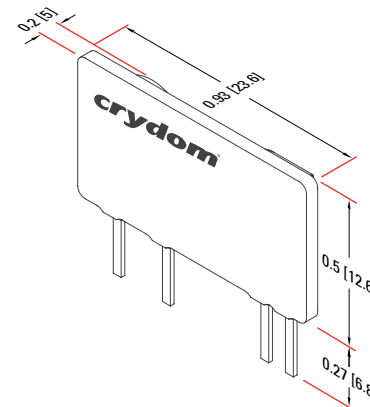
Notes: **A B D J**

Series

Rated Load Current
063: 3 Amps

DMO

063



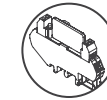
CMX Series • 3-20 Amps



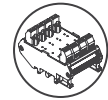
- SIP Solid State Relay ideally suited for high density PCB applications
- Low impedance MOSFET output minimizes total power dissipation
- Ratings up to 20 Amps @ 60 VDC, 10 Amps @ 100 VDC or 3 Amps @ 200 VDC
- Easily paralleled for high current applications
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)

Notes: **A B C D J**

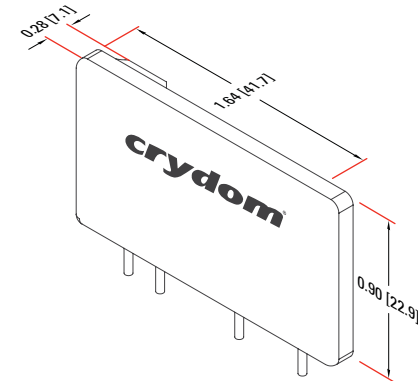
Series	Operating Voltage	Rated Load Current
CMX		
E	Control Voltage Blank: 3-10 VDC 4-10 VDC (200 VDC only) E: 20-28 VDC	3: 3 Amps (200 VDC only) 5: 5 Amps (60 VDC only) 6: 6 Amps (100 VDC only) 10: 10 Amps (60 & 100 VDC only) 20: 20 Amps (60 VDC only)
200		
D		
5		



DIN Rail Model
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Sockets
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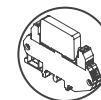


MP Series • 3 Amps



- SIP Solid State Relay ideally suited for high density PCB applications
- Ratings up to 3 Amps @ 60 VDC
- 10 mm plastic housing allows for operation at -40°C
- Normally Closed version available ("-B" suffix option)
- Ideally suited for both resistive and inductive loads (inductive loads such as motors and EMR/solenoid coils must be diode suppressed)

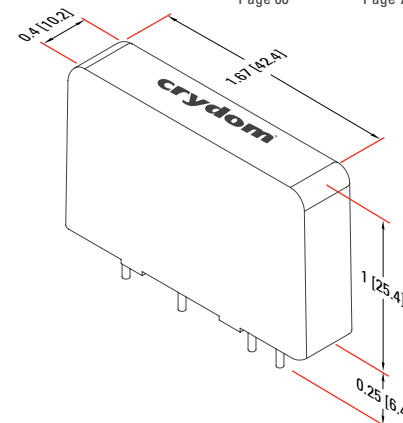
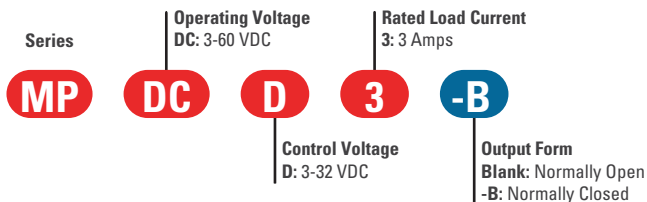
Notes: **A B C D J**



DIN Rail Model
Page 60



Sockets
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DIN Rail Mount

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.

AC Output

Page	Series	Description	2	2.4	3	4	4.2	5	6	8	10	12	20	25	30	35	45	55	65
Solid State Relays																			
50	DRA-CN	6 mm	■																
51	DRA	10/54 mm	■		■	■		■		■									
52	SeriesOne DR	11 mm							■			■							
53	CKR	22.5 mm									■		■		■				
54	CMR	45 mm														■	■	■	■
55	SeriesOne DR Dual	18 mm								■									

Solid State Contactors

Page	Series	Description	2	2.4	3	4	4.2	5	6	8	10	12	20	25	30	35	55	65
56	DRA3P	3 Phase	■				■											
57	DRA3R	Reversing	■				■											
58	CTR	3 Phase													■			

DC Output

Page	Series	Description	0.1	2.4	3	3.5	4.2	5	6	8	10	12	20	30
Solid State Relays														
59	DRA-CN	6 mm												
60	DRA	10/54 mm												
61	SeriesOne DR	11/18 mm												
62	CKM	45 mm												
Solid State Contactors														
63	DRA4D	Reversing												



DRA-CN Series • 2 Amps



- Thin 6.2 mm DIN Rail mount Solid State Relay
- Ratings of 2 Amps @ 240 VAC
- 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

Notes: **A B C D J**



ID Marker Strips
Page 77

Series

DRA-CN

240A

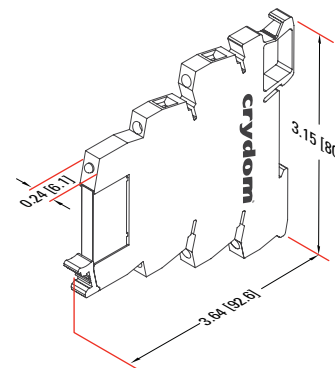
24

R

Operating Voltage
240A: 24-250 VAC, 2 Amps

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

Assembly Input Voltage
05: 3-12 VDC
24: 15-30 VDC



Specifications are subject to change without prior notice

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 D H J**

Series

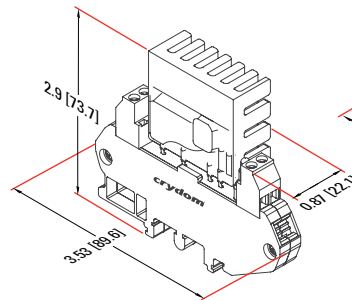
DRA

1

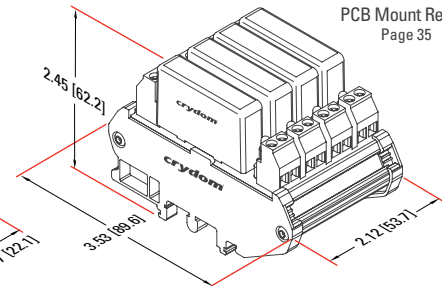
SPF240D25

Number of Channels
1: One N.O. Channel
4: Four N.O. Channels

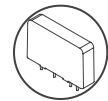
Standard Crydom SSR p/n
including the following series:
CX/CXE
MCX/MCXE
MP (One Channel only)
PF (One Channel only)
SPF/SPFE (One Channel only)



DRA1 with SPF Series SSR
(One channel)



DRA4 with MP Series SSR
(Four channels)



PCB Mount Relays
Page 35

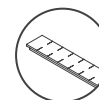
SeriesOne DR • 6-12 Amps



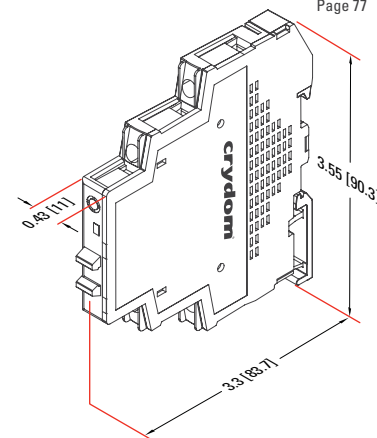
- DIN Rail mount 11 mm (6 Amps) or 18 mm (12 Amps) wide Solid State Relay
- Operating Voltage of 24-280 VAC and 48-600 VAC
- Fits standard 35 mm DIN Rail profiles
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible Control Voltage of 4-32 VDC, 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 C D J**

Series	Operating Voltage	Rated Load Current	Control Voltage	Switching Type
DR	24: 24-280 VAC 48: 48-600 VAC (D suffix only)	06: 6 Amps 12: 12 Amps	A: 208-265 VAC B: 90-140 VAC D: 4-32 VDC E: 18-36 VAC	Blank: Zero Voltage Turn-On R: Random Turn-On (D suffix only)



ID Marker Strips
Page 77



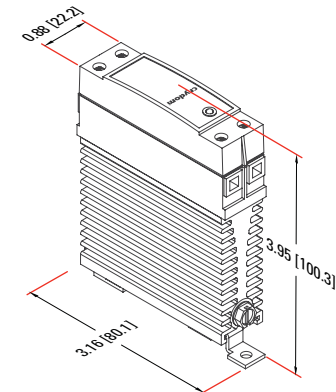
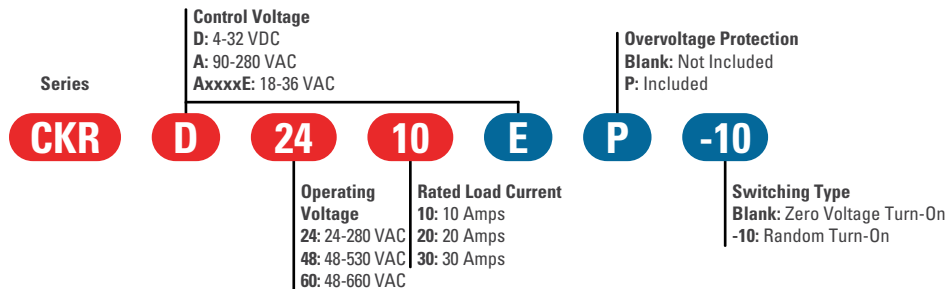
Specifications are subject to change without prior notice

CKR Series • 10-30 Amps



- Solid State Relay with ratings from 10 to 30 Amps
- Operating Voltage of 24-660 VAC
- Fits standard 35 mm DIN Rail profiles
- Slim 22.5 mm (width) package
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible Control Voltage of 4-32 VDC, 18-36 VAC, 90-280 VAC
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (inductive loads) output
- LED indicator for easy identification of control status
- Elective Internal TVS ("P" suffix) eliminates the need for external Overvoltage Protection
- Enhanced surge current ratings for the 30 Amps (facilitates the use of circuit breakers instead of fuse protection)

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

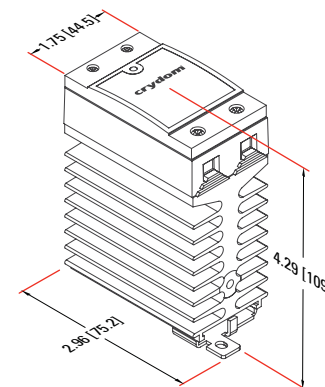
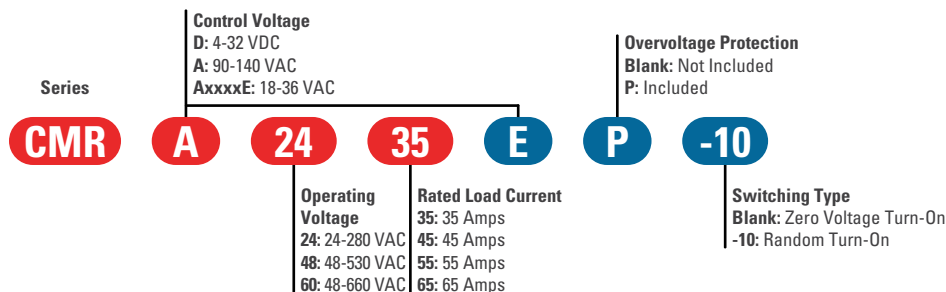


CMR Series • 35-65 Amps



- Solid State Relay with ratings from 35 to 65 Amps
- Operating Voltage of 24-660 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
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (inductive loads) output
- LED indicator for easy identification of control status
- Elective Internal TVS ("P" suffix) eliminates the need for external Overvoltage Protection

Notes: **A B C D J**

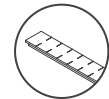
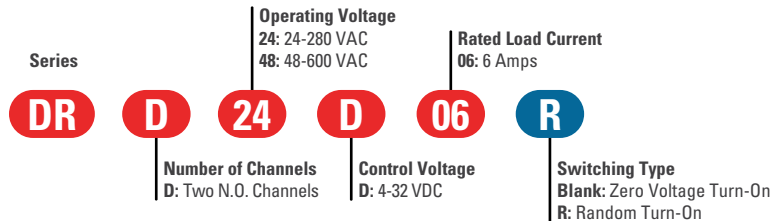


SeriesOne DR Dual • 6 Amps

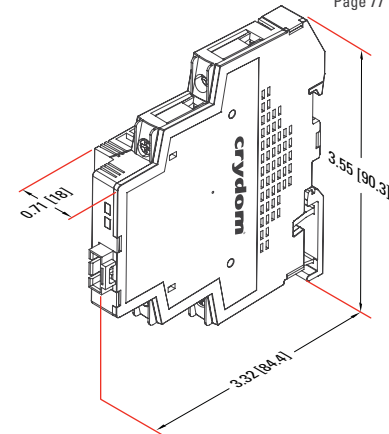


- DIN Rail mount 18 mm wide Solid State Dual Relay
- Two independent channels (6 Amps)
- Operating Voltage of 24-280 VAC and 48-600 VAC
- Fits standard 35 mm DIN Rail profiles
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible Control Voltage of 4-32 VDC
- 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 C D J**



ID Marker Strips
Page 77



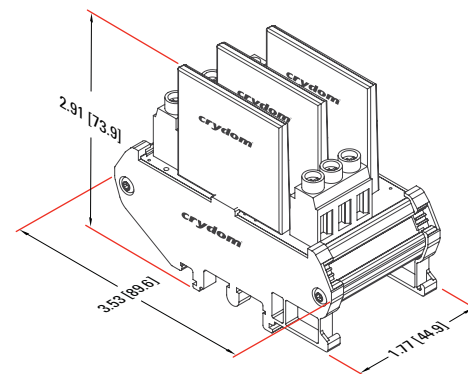
DRA3P Series • 2.4-4.2 Amps



- 2.4 & 4.2 Amp rated 3 phase Solid State Contactor
- Operating Voltage of 48-510 VAC, 3-Phase
- Fits standard 35 mm DIN Rail profiles
- No heat sink required & cage style screw terminals for easy installation & reliable wire connection
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Wide range of Control Voltage of 5 VDC, 24 VDC, 48 VAC, 115 VAC, 230 VAC
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (inductive loads) output
- LED indicator for easy identification of control status
- Overvoltage Protection included
- HP & kW (IEC) rated
- UL 508 overload endurance rated

Notes: **A B C D J**

Series	Operating Voltage	Rated Load Current
DRA	48: 48-510 VAC	2: 2.4 Amps/1HP @ 480 VAC
3P		4: 4.2 Amps/2HP @ 480 VAC
48		
D		
4		
R		
Function	Control Voltage	Switching Type
3P: 3 Phase	D: 4-6 VDC	Blank: Zero Voltage Turn-On
	E: 18-28 VDC	R: Random Turn-On
	A: 200-265 VAC	
	B: 90-140 VAC	
	C: 36-60 VAC	



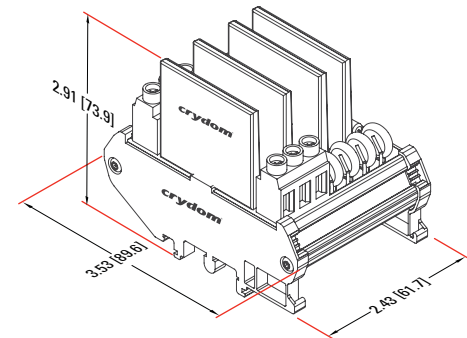
DRA3R Series • 2.4-4.2 Amps



- 2.4 & 4.2 Amps rated Motor Reversing Solid State Contactor
- Operating Voltage 48-510 VAC, 3 phase
- Protective Forward/Reverse interlock built-in function
- Fits standard 35 mm DIN Rail profiles
- No heat sink required & cage style screw terminals for easy installation & reliable wire connection
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Wide range of Control Voltage of 5 VDC, 24 VDC, 48 VAC, 115 VAC, 230 VAC
- Input status LED, Forward (green), Reverse (yellow)
- Overvoltage Protection included
- HP & kW (IEC) rated
- UL 508 overload endurance rated

Notes: **A B D J**

Series	Operating Voltage	Rated Load Current
DRA	48: 48-510 VAC	2: 2.4 Amps/1HP @ 480 VAC
3R		4: 4.2 Amps/2HP @ 480 VAC
48		
D		
4		
Function	Control Voltage	
3R: Motor Reverser	D: 4-6 VDC	
	E: 18-28 VDC	
	A: 200-265 VAC	
	B: 90-140 VAC	
	C: 36-60 VAC	

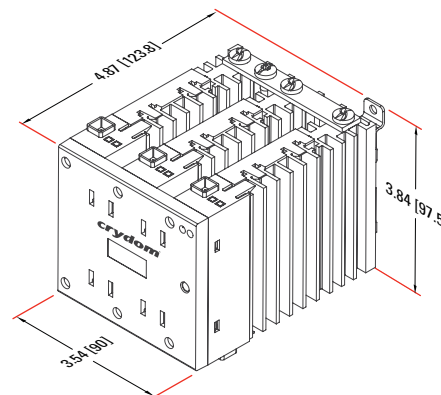
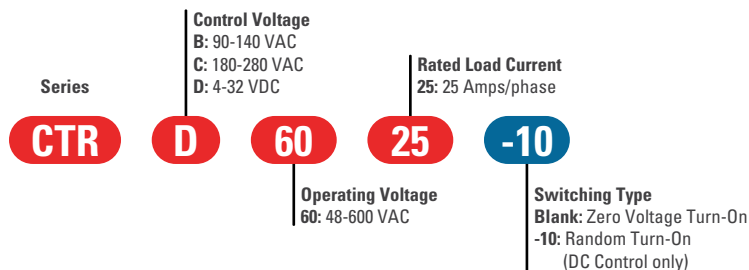


CTR Series • 25 Amps



- 3 Phase Solid State Contactor with ratings 25 Amps per phase @ 600 VAC
- Fits standard 35 mm DIN Rail profiles
- 90 mm width package
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Flexible Control Voltage of 4-32 VDC, 90-140 VAC, 180-280 VAC
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (inductive loads) output
- LED indicator for easy identification of control status
- Internal TVS eliminates the need for external Overvoltage Protection
- UL 508 overload endurance rated

Notes: **A B C D J**



Specifications are subject to change without prior notice

DRA-CN Series • 0.1-3.5 Amps



- Thin 6.2 mm DIN Rail mount Solid State Relay
- Available with ratings of 3.5 Amps @ 24 VDC or 100 mAmps @ 48 VDC
- 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)

Notes: **A B D J**

Series

DRA-CN

024D

24

Operating Voltage

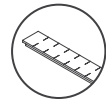
024D: 0-24 VDC, 3.5 Amps

048D: 0-48 VDC, 0.1 Amps

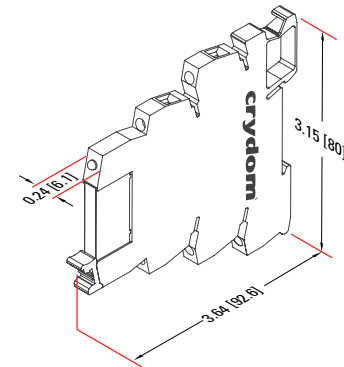
Assembly Input Voltage

05: 3-12 VDC

24: 15-30 VDC



ID Marker Strips
Page 77



DRA Series • 3-8 Amps



- Ready-to-use DIN Rail mountable Solid State Relay 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 1-200 VDC with high efficiency FETs
- Fits standard 35 mm DIN Rail profiles
- Cage style screw termination for easy and reliable wire connection
- Available with Normally Closed output
- LED indicator for easy identification of control status

Notes: **A B D H J**

Series

DRA

4

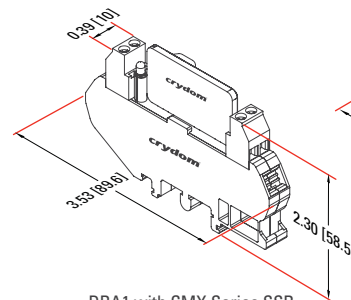
CMX100D10

Number of Channels

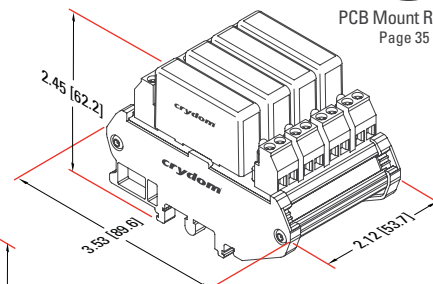
1: One N.O. Channel

4: Four N.O. Channels

Standard Crydom SSR p/n
including the following series:
CMX/CMXE
MP (One Channel only)



DRA1 with CMX Series SSR
(One channel)



DRA4 with MP Series SSR
(Four channels)



PCB Mount Relays
Page 35

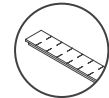
SeriesOne DR • 6-12 Amps



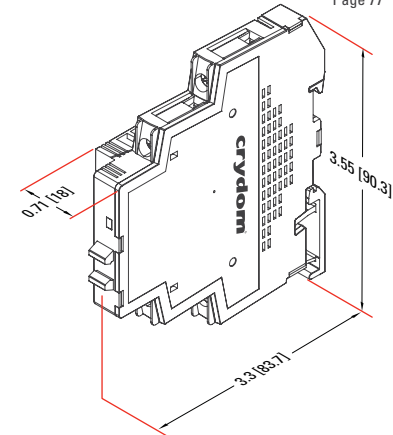
- DIN Rail mount 11 mm (6 Amps) or 18 mm (12 Amps) wide Solid State Relay
- 6 & 12 Amp Rated Load Current
- Operating Voltage of 1-60 VDC and 1-100 VDC
- Fits standard 35 mm DIN Rail profiles
- MOSFET output provides added reliability in commercial and heavy industrial applications
- Flexible Control Voltage 4-32 VDC
- IP20 housing for greater safety with lug type terminals
- 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 & cUL approved including General Purpose & Motor Controller ratings
- UL 508 overload endurance rated

Notes: **A B D J**

Series	Operating Voltage	Rated Load Current
DR	06: 1-60 VDC 10: 1-100 VDC	06: 6 Amps 12: 12 Amps
	D	
	12	
	Control Voltage D: 4-32 VDC	



ID Marker Strips
Page 77



CKM Series • 10-30 Amps



- Solid State Relay with ratings from 10 to 30 Amps @ 60 VDC
- Fits standard 35 mm DIN Rail profiles
- Slim 22.5 mm (width) package
- Low leakage MOSFET output provides added reliability in commercial and heavy industrial applications
- Flexible Control Voltage 4-32 VDC
- 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)

Notes: **A B D J**

Series

Operating Voltage
06: 0-60 VDC

CKM

06

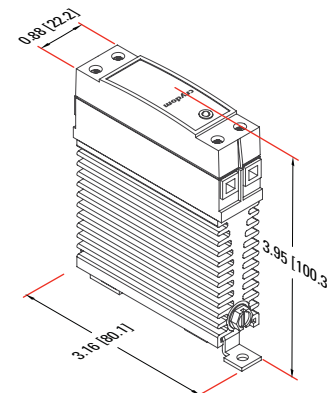
10

Rated Load Current

10: 10 Amps

20: 20 Amps

30: 30 Amps



Specifications are subject to change without prior notice

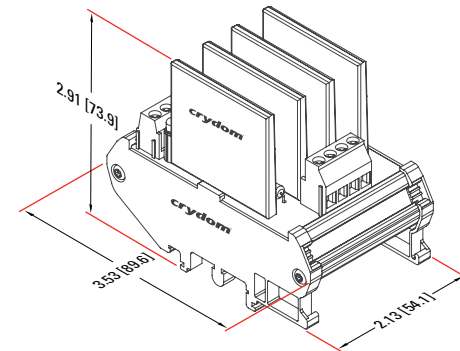
DRA4D Series • 6-12 Amps



- DC Motor/Polarity Reversing Solid State Contactor
- 6 & 12 Amps ratings
- Operating Voltage of 1-100 VDC & 1-250 VDC
- Protective Forward/Reverse interlock built-in function
- Fits standard 35 mm DIN Rail profiles
- No heat sink required & cage style screw terminals for easy installation & reliable wire connection
- Convenient FET switches in H-Bridge configuration
- DC Control Voltage options
- Input Status LED, Forward (green), Reverse (yellow)
- HP & kW (IEC) rated

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

Series	Operating Voltage	Rated Load Current
DRA	100: 1-100 VDC	6: 6 Amps/1/3HP @ 240 VDC
4D	250: 1-250 VDC	12: 12 Amps/1/3HP @ 90 VDC
100		
D		
6		
Function	Control Voltage	
4D: Motor Reverser	D: 5-15 VDC	
	E: 18-32 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 and Assemblies sections of the catalog for information on compatible sockets and “ready-to-use” Assemblies. Visit the Plug-In SSR section of the catalog or Crydom web site for additional information on Crydom Plug-In Mount SSRs.

AC Output

Page	Series	Description	Rating Amps 2 3 5		
			Solid State Relays		
65	CN	280 V / 2 A	■		
66	ED	280 V / 5 A		■	■

DC Output

Page	Series	Description	Rating Amps 0.1 3.5 5		
			Solid State Relays		
67	CN	1 - 60 V	■	■	
68	ED	1 - 100 V			■

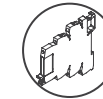


CN Series • 2 Amps

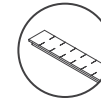


- Thin Solid State Relay ideally suited for high density PCB applications
- Ratings up to 2 Amps @ 24-280 VAC
- Back-to-back SCR output provides added reliability in commercial and heavy industrial applications
- Available with Zero Voltage Turn-On (resistive loads) or Random Turn-On (phase control or inductive loads) output
- R-C Snubber network for additional dv/dt attenuation
- Pluggable into industry standard relay sockets or solderable
- DIN Rail mountable using DRSCN series sockets
- UL 508 overload endurance rated
- UL pilot duty rated

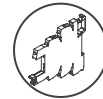
Notes: **A B C D G J**



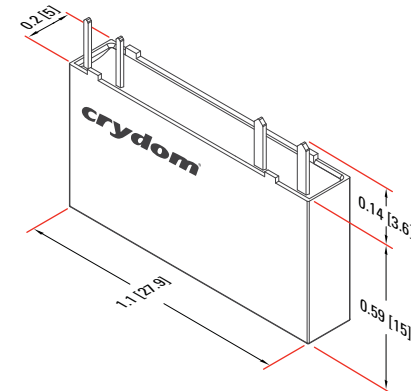
DIN Rail Model
Page 50



ID Marker Strips
Page 77



Sockets
Page 78



Series

CN

Operating Voltage

240A: 24-280 VAC, 2 Amps

240A

24

Switching Type

Blank: Zero Voltage Turn-On

R: Random Turn-On

R

Control Voltage

05: 3-12 VDC

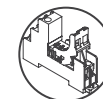
24: 15-30 VDC

60: 38-72 VDC

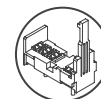
ED Series • 3-5 Amps



- AC Output Solid State Relay in an industry standard EMR plug-in package
- 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

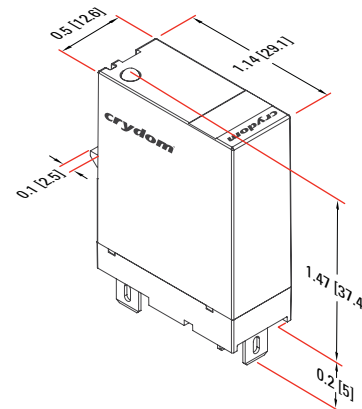


DIN Rail Sockets
Page 78



PCB Sockets
Page 78

Notes: **A B C D J**



Series	Operating Voltage 24: 24-280 VAC	Rated Load Current 3: 3 Amps (not available with B & E suffixes) 5: 5 Amps*
ED	24	3
	C	R
	Control Voltage B: 100-140 VAC C: 18-32 VDC D: 3-15 VDC E: 18-36 VAC F: 35-72 VDC	Switching Type Blank: Zero Voltage Turn-On R: Random Turn-On

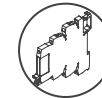
* Drawing shown on the right

CN Series • 0.1-3.5 Amps

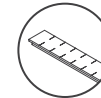


- Thin Solid State Relay ideally suited for high density PCB applications
- Ratings of 0.1 Amps @ 48 VDC or 3.5 Amps @ 48 VDC
- Pluggable into industry standard relay sockets or solderable
- DIN Rail mountable using DRSCN series sockets
- UL 508 overload endurance rated

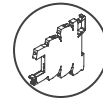
Notes: **A B D G J**



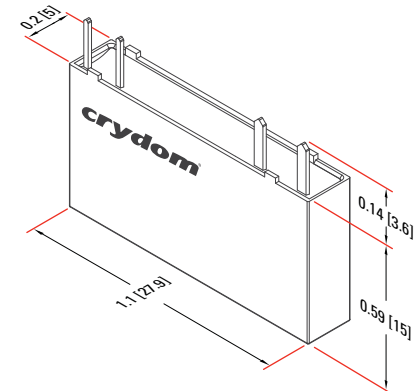
DIN Rail Model
Page 58



ID Marker Strips
Page 77



Sockets
Page 78



Series

CN

024D

24

Operating Voltage

024D: 0-24 VDC, 3.5 Amps

048D: 0-48 VDC, 0.1 Amps

Control Voltage

05: 3-12 VDC

24: 15-30 VDC

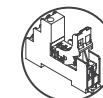
60: 38-72 VDC

ED Series • 5 Amps



- DC output Solid State Relay in an Industry standard EMR plug-in package
- 5 Amps rated
- 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

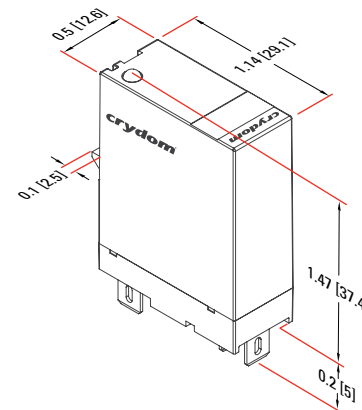
Notes: **A B D J**



DIN Rail Sockets
Page 78



PCB Sockets
Page 78



Series	Operating Voltage 06: 1-48 VDC 10: 1-80 VDC	Rated Load Current 5: 5 Amps
ED	06	C
		5
		Control Voltage B: 90-140 VAC * C: 18-32 VDC D: 5-15 VDC E: 18-36 VAC * F: 35-72 VDC

* Drawing shown on the right

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.

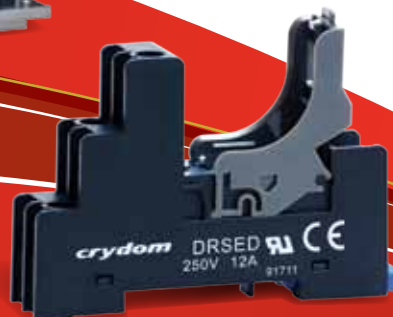
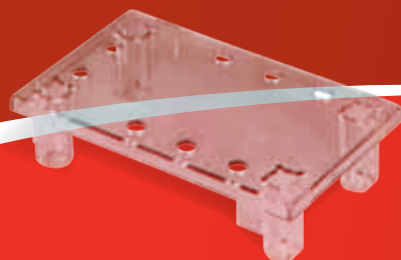


Accessories

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.

Heat Sink/Accessories Compatibility

Page	Part number	HK1	HK2	HSP-1 HSP-2	HSP-3 HSP-5	HSP-6	KS100	KS300	DRK1
73	HS501DR								
74	HS351								
74	HS301								
74	HS251								
75	HS201								
75	HS172								
75	HS151								
76	HS103								
76	HS072								
76	HS053								



Covers • Hockey Puck



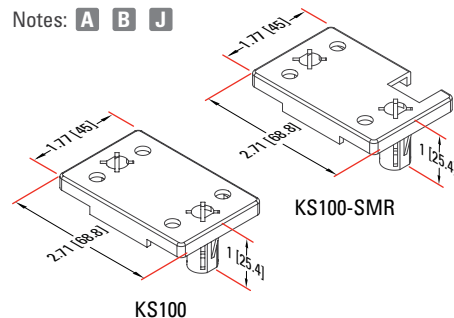
Part no.: KS100

Clear plastic cover for standard hockey puck package SSRs (2.25 x 1.75 in). Safety covers provide added protection from electric shock when installing or checking equipment.

Part no.: KS100-SMR

Clear plastic cover with cut out window for SMR-6 and MC Series. Safety covers provide added protection from electric shock when installing or checking equipment.

Notes: **A B J**



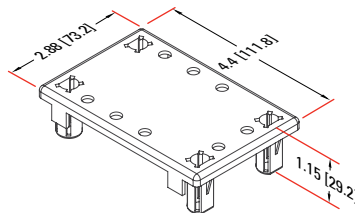
Covers • Large Puck



Part no.: KS300

Clear plastic cover large puck panel mount SSRs (4 x 2.9 in). Safety covers provide added protection from electric shock when installing or checking equipment.

Notes: **A B J**



DIN Rail Bracket

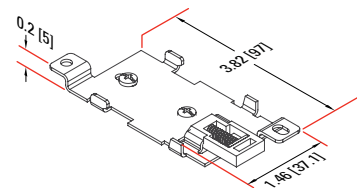


DIN Rail Kit 1

Part no.: DRK1

Spring, retaining clip, 45 mm DIN Rail bracket and 2 screws 6-32 x 1/4 in.

Notes: **A B J**



Filters • AC Filters

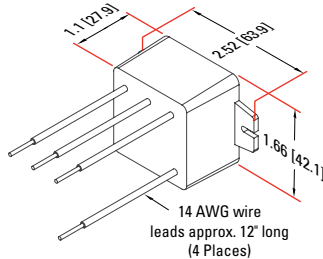


Part no.: 1F25
EMI noise suppression filter for SSR in AC single phase systems

Part no.: 3F20 (shown above)
EMI noise suppression filters for SSR in three phase systems

Part no.: 3F20-4 (shown below)
EMI noise suppression filters with neutral for SSR in three phase systems

Notes: **A B J**



Hardware Kits



HK1



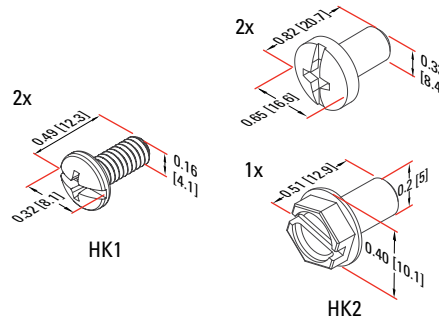
HK2



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

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

Notes: **A B J**

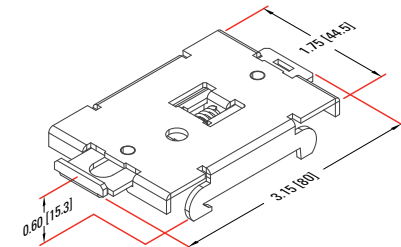


Heat Sinks • HS501DR



- 5.0°C/W Thermal resistance
- Suitable for 1 single or dual SSR
- DIN Rail mountable
- Heat sink material is steel with yellow zinc surface finish

Notes: **A B J**



HS501DR includes

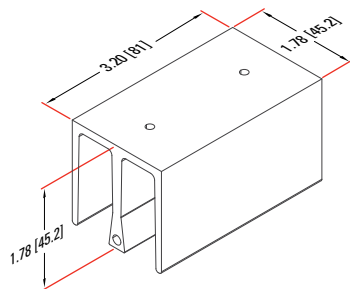
- DIN Rail Mounting Bracket
- M4 Mounting Screws
- Latch Release

Heat Sinks • HS351



- 3.5°C/W Thermal resistance
- Suitable for 1 single or dual SSR
- Panel mountable or DIN Rail mountable version available as HS351DR
- Heat sink material is aluminum with natural finish

Notes: **A B J**



HS351DR includes

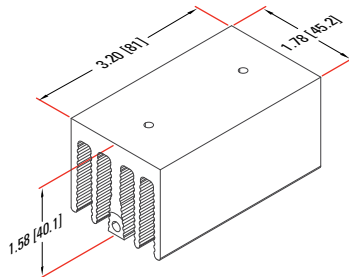
Ground Screw (10-32 x 3/8 in)
DIN Rail Kit 1 (DRK1)
Heat Sink (HS351)
One Hardware Kit 1 (HK1)

Heat Sinks • HS301



- 3.0°C/W Thermal resistance
- Suitable for 1 single or dual SSR
- Panel mountable or DIN Rail mountable version available as HS301DR
- Heat sink material is aluminum with black anodized finish

Notes: **A B J**



HS301DR includes

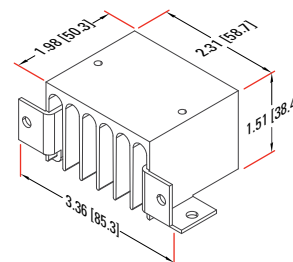
Ground Screw (10-32 x 3/8 in)
DIN Rail Kit 1 (DRK1)
Heat Sink (HS301)
One Hardware Kit 1 (HK1)

Heat Sinks • HS251



- 2.5°C/W Thermal resistance
- Suitable for 1 single or dual SSR
- Panel mountable
- Heat sink material is aluminum with natural finish

Notes: **A B J**

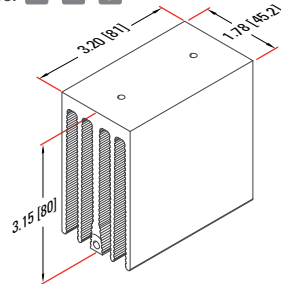


Heat Sinks • HS201



- 2.0°C/W Thermal resistance
- Suitable for 1 single or dual SSR
- Panel mountable or DIN Rail mountable version available as HS201DR
- Heat sink material is aluminum with black anodized finish

Notes: **A B J**



HS201DR includes

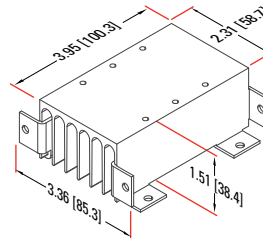
Ground Screw (10-32 x 3/8 in)
DIN Rail Kit 1 (DRK1)
Heat Sink (HS201)
One Hardware Kit 1 (HK1)

Heat Sinks • HS172



- 1.7°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**

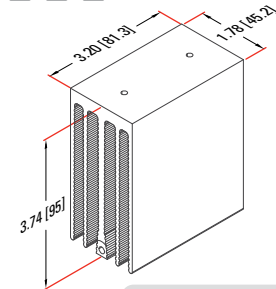


Heat Sinks • HS151



- 1.5°C/W Thermal resistance
- Suitable for 1 single or dual SSR
- Panel mountable or DIN Rail mountable version available as HS151DR
- Heat sink material is aluminum with black anodized finish

Notes: **A B J**



HS151DR includes

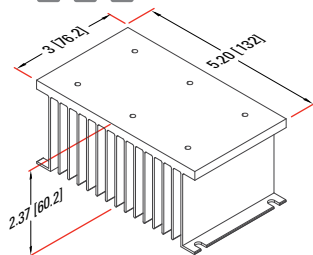
Ground Screw (10-32 x 3/8 in)
DIN Rail Kit 1 (DRK1)
Heat Sink (HS151)
One Hardware Kit 1 (HK1)

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**



HS103DR includes

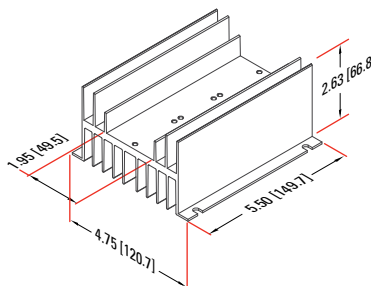
Heat Sink (HS103)
Extruded DIN Rail Bracket
Fasteners
Three Hardware Kits 1 (HK1)

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**

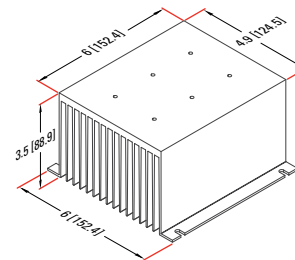


Heat Sinks • HS053



- 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**



ID Marker Strips



Part no.: CNLB

A package of 10 plastic strips comprising 10 individual unprinted markers.

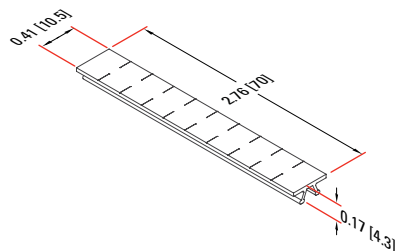
Part no.: CNLN

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

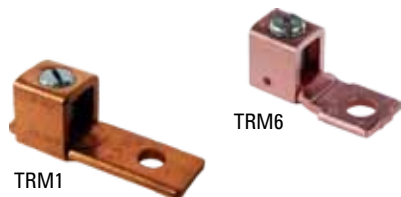
Part no.: CNL2

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

Notes: **A B J**



Lug Terminals



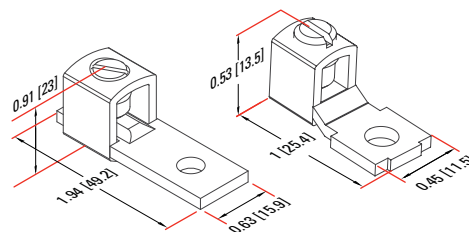
Part no.: TRM1

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. (Not compatible with IP20 covers)

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.

Notes: **A B J**



Sockets • DRS Socket



DRS Series DIN Rail Mountable Sockets

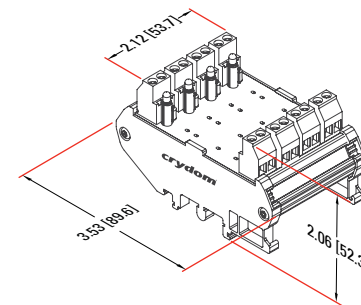
Part no.: DRS1 (shown above)

10 mm single channel DIN Rail mountable socket to mount Crydom PCB mount relays onto standard 35 mm DIN Rail profiles.

Part no.: DRS4 (shown below)

54 mm four channel DIN Rail mountable socket to mount Crydom PCB mount relays onto standard 35 mm DIN Rail profiles.

Notes: **A B J**



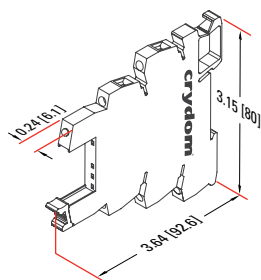
Sockets • DRS-CN Sockets



CN Series DIN Rail Mountable Sockets
Part no.: DRSCN05, DRSCN24

DIN Rail mountable socket to mount CN Series relays onto standard 35 mm DIN Rail profiles. Maximum output rating for DRSCN sockets is 250 V, 6 Amps regardless of selected SSR. DRS-CN sockets are 6 mm wide and include input status LED.

Notes: **A B G J**



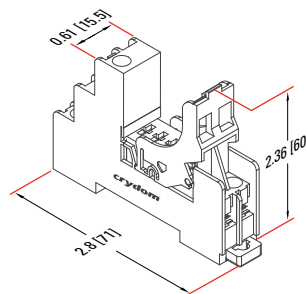
Sockets • DRSED Socket



ED Series DIN Rail Mountable Socket
Part no.: DRSED

Finger safe IP10 DIN Rail mountable socket to mount ED Series relays onto standard 35 mm DIN Rail profiles. Rated at 250 V AC/DC, 12 Amps. The DRSED includes M3 Combo screws.

Notes: **A B J**



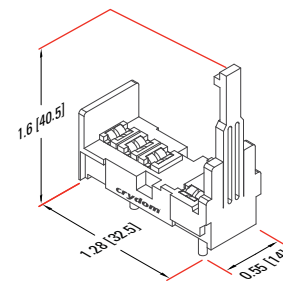
Sockets • PCBSED Socket



ED Series PCB Mountable Socket
Part no.: PCBSED

PC Board mountable socket for ED series relays. Rated at 250 V AC/DC, 12 Amps. Suggested Pin-out hole diameter: 1.0 mm

Notes: **A B J**



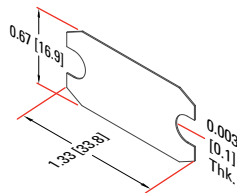
Thermal Pads • Mini-Puck



Part no.: HSP-6

Thermal pad for mini-puck panel mount SSRs.
Includes adhesive on one side.

Notes: **A B J**



Thermal Pads • Hockey Puck



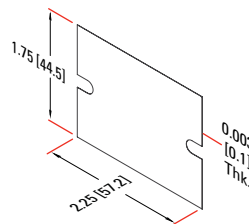
Part no.: HSP-1

25 pack of non-adhesive thermal pads for standard hockey puck package SSRs (2.25 x 1.75 in).

Part no.: HSP-2 (shown above)

Thermal pad for standard hockey puck package SSRs (2.25 x 1.75 in). Includes adhesive on one side.

Notes: **A B J**



Thermal Pads • Large Puck



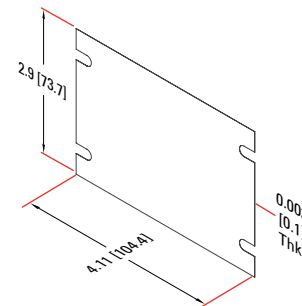
Part no.: HSP-3

Thermal pad for large puck panel mount SSRs (4 x 2.9 in).

Part no.: HSP-5 (shown above)

Thermal pad for large puck panel mount SSRs (4 x 2.9 in).
Includes adhesive on one side.

Notes: **A B J**





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