



## DRA1 SERIES | CX-AC

DIN RAIL MOUNT



### Features

- 10mm Single Channel DIN Rail Mount SSR Assembly
- AC Ratings up to 280 VAC and 5 Amps
- 90-140 VAC control
- Cage style screw terminals for easy connection
- Fits standard 35mm DIN rail
- Includes LED Status indicator

### Input

<b>Control Voltage</b>	<b>5A</b>	<b>5A</b>
<b>90 - 140 Vrms Control</b>	DRA1-CX240A5	DRA1-CX240A5R



### SPECIFICATIONS

### Output <sup>(1)</sup>

Description	Parameters
<b>Operating Voltage [VAC]</b>	12 - 280
<b>Transient Overvoltage [Vpk]</b>	600
<b>Maximum Load Current [Arms] <sup>(2)</sup></b>	5
<b>Minimum Load Current [Arms]</b>	0.06
<b>Maximum Off-State Leakage Current @ Rated Voltage [mArms]</b>	0.1
<b>Maximum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] <sup>(3)</sup></b>	500
<b>Maximum 1 Cycle Surge Current (50/60 Hz) [Apk]</b>	239 / 250
<b>Maximum I<sup>2</sup>t for Fusing (50/60 Hz, ½ Cycle) [A<sup>2</sup> Sec]</b>	285 / 260
<b>Maximum On-State Voltage Drop @ Rated Current [Vpk]</b>	1.4

## Input <sup>(1)</sup>

Description	Parameters
Control Voltage Range	90 - 140 Vrms
Must Turn-On Voltage	90 Vrms
Must Turn-Off Voltage	10 Vrms
Typical Input Current	10 mA
Nominal Input Impedance	14.1K Ohms
Maximum Turn-On Time [msec]	10
Maximum Turn-Off Time [msec]	40

## General <sup>(1)</sup>

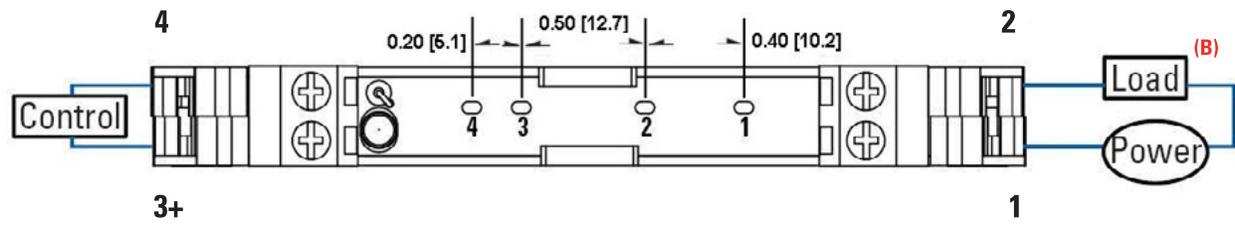
Description	Parameters
Dielectric Strength, Input/Output (50/60 Hz)	4000 Vrms
Maximum Insulation Resistance (@ 500 VDC)	10 <sup>9</sup> Ohm
Maximum Capacitance, Input/Output	10 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature	-30 to 125°C
Weight (Typical)	0.063 lb (28.6 g)
Encapsulation	Thermally Conductive Epoxy



## WIRING DIAGRAM (A)

INPUT

OUTPUT



(A) Wiring diagram is identical for each individual section whether it is a single or four channel assembly.

(B) Load can be placed on either side of "Power"

For additional information or specific questions, contact Sensata Technical Support.

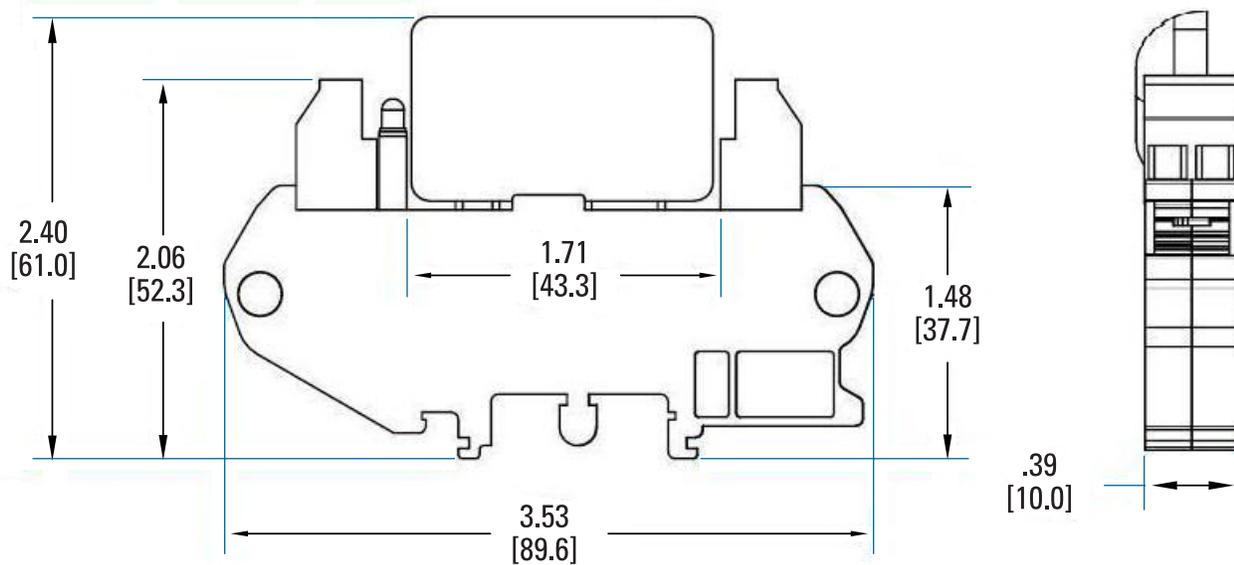


## MECHANICAL SPECIFICATIONS

Tolerances:  $\pm 0.02$  in / 0.5 mm

All dimensions are in inches [millimeters]

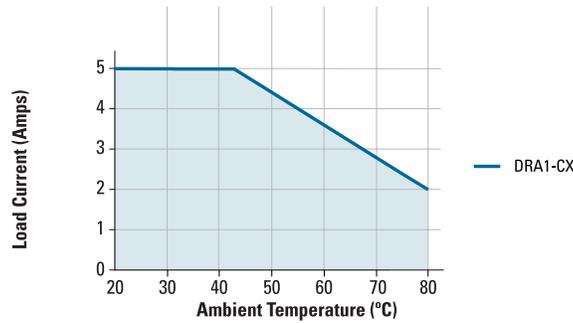
### CX/CMX Series SSR





## THERMAL DERATE INFORMATION

DRA1-CX Derating Curve



## GENERAL NOTES

- <sup>(1)</sup> All parameters at 25 °C unless otherwise specified.
- <sup>(2)</sup> See Derating Chart on page 4.
- <sup>(3)</sup> Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1

For additional information or specific questions, contact Sensata Technical Support.



## AGENCY APPROVALS & CERTIFICATIONS



- VDE: 70938 (Relay Only)



## WARNINGS



### RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
  - Follow proper mounting instructions including torque values
  - Do not allow liquids or foreign objects to enter this product
- Failure to follow these instructions can result in serious injury, or equipment damage.**



### HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
  - Verify all connections and replace all covers before turning on power
- Failure to follow these instructions will result in death or serious injury.**

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