

# DRA1 SERIES | CMX DC OUTPUT

DIN RAIL MOUNT



## Features

- 10mm Single Channel DIN Rail Mount SSR Assembly
- AC Ratings up to 380 VAC and 10 Amps
- 3-15 VDC, 15-32VDC, 18-36 VAC and 90-140 VAC Control
- Cage style screw terminals for easy connection
- Fits standard 35mm DIN rail
- Includes LED Status Indicator (DC Control Only)

## PRODUCT SELECTION

Control Voltage	3A	5A	6A	10A <sup>(5)</sup>	10A <sup>(5)</sup>
3 - 10 VDC	DRA1-CMX200D3	DRA1-CMX60D5	DRA1-CMX100D6	DRA1-CMX60D10	DRA1-CMX100D10
20 - 28 VDC	DRA1-CMXE200D3	DRA1-CMXE60D5	DRA1-CMXE100D6	DRA1-CMXE60D10	DRA1-CMXE100D10

## SPECIFICATIONS

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

Description	3A	5A	6A	10A <sup>(5)</sup>	10A <sup>(5)</sup>
Operating Voltage [VDC]	1 - 200	1 - 60	1 - 100	1 - 60	1 - 100
Maximum Off-State Leakage Current @ Rated Voltage [ $\mu$ Adc]	100	100	100	100 <sup>(2)</sup>	100
Maximum Load Current [A] <sup>(3)</sup>	3	5	6	10	10
Minimum Load Current [A]	0	0	0	0	0
Maximum Off-State Resistance [Ohm]	0.2	0.1	0.04	0.018	0.01
Maximum Surge Current (10msec) [Apk]	30	60	100	100	100
Maximum On-State Voltage Drop @ Rated Current [VDC]	0.6	0.5	0.24	0.18	0.1

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

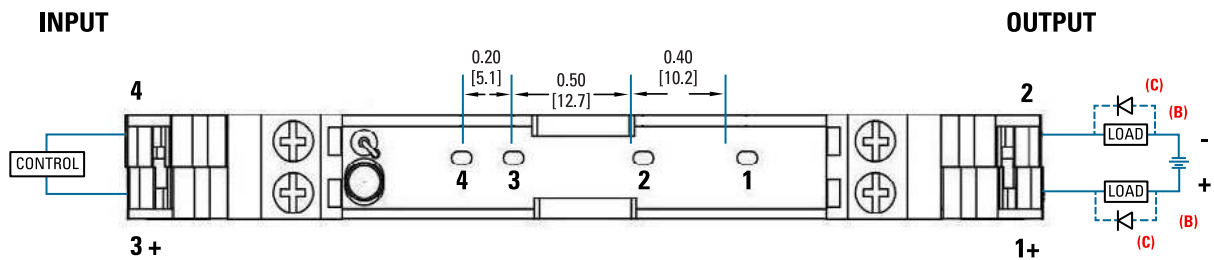
Description	DRA1-CMX	DRA1-CMXE
Control Voltage Range	3.0 - 10.0 VDC	20.0 - 28.0 VDC
Must Turn-On Voltage	3.0 VDC	3.0 VDC
Must Turn-Off Voltage	1.0 VDC	1.0 VDC
Typical Input Current	15 mAdc @ 5 Vdc	12 mAdc @ 20 Vdc
Nominal Input Impedance	300 Ohm	240 Ohm
Maximum Turn-On Time [msec] <sup>(5)</sup>	1	1
Maximum Turn-Off Time [µsec]	300	300

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

Description	Parameters
Dielectric Strength <sup>(4)</sup>	2500 Vrms
Maximum Insulation Resistance (@ 500 VDC) <sup>(4)</sup>	10 <sup>9</sup> Ohm
Maximum Capacitance, Input/Output	15 pF
Ambient Operating Temperature Range	-20 to 80°C
Ambient Storage Temperature Range	-20 to 125°C
Weight (Typical)	0.063 oz (28.6 g)
Encapsulation	Thermally Conductive Epoxy



## WIRING DIAGRAMS <sup>(A)</sup>



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

<sup>(B)</sup> Load can be placed on either side of "Power"

<sup>(C)</sup> DC inductive loads must be diode suppressed to prevent damage to SSR.

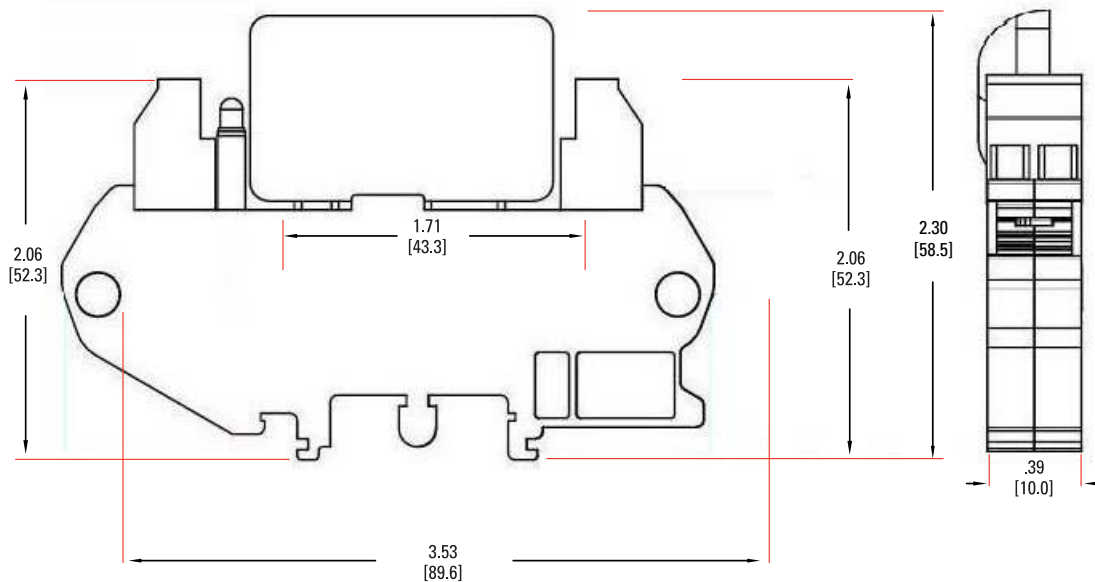
For additional information or specific questions, contact Sensata Technical Support.



## MECHANICAL SPECIFICATIONS

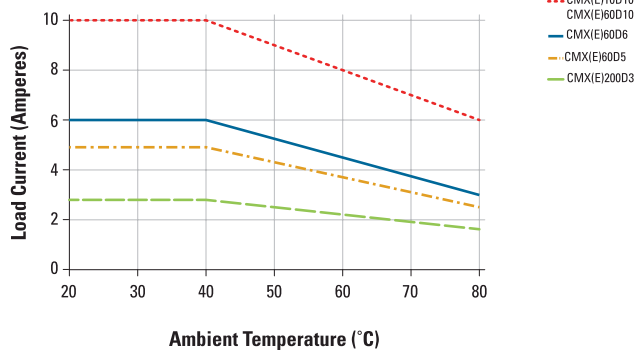
Tolerances:  $\pm 0.02$  in / 0.5 mm  
All dimensions are in inches [millimeters]

### CX/CMX Series SSR



## THERMAL DERATE INFORMATION

DRA1-CMX Derating Curve



## GENERAL NOTES

- (1) All parameters at 25 °C unless otherwise specified.
- (2) At 55 Vdc.
- (3) See Derating Chart on page 4.
- (4) Dielectric and insulation resistance is measured between input and output
- (5) Steady state load Current exceeding 10 amps will damage socket.

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



## AGENCY APPROVALS & CERTIFICATIONS



- Designed in accordance with the requirements of IEC 62314
- UL: E116950 (3, 6, and 10 CMX Relays 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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