



## DRA1 SERIES | MCX AC OUTPUT

DIN RAIL MOUNT



### Features

- 10mm Single Channel DIN Rail Mount SSR Assembly
- AC Ratings up to 380 VAC and 5 Amps
- 3-15 and 15-32 VDC Control
- Cage style screw terminals for easy connection
- Fits standard 35mm DIN rail
- Includes LED Status indicator



### PRODUCT SELECTION

Control Voltage	5A	5A
3 - 15 VDC Control	DRA1-MCX240D5	
4 - 15 VDC Control		DRA1-MCX380D5
15 - 32 VDC Control	DRA1-MCXE240D5	DRA1-MCXE380D5



### SPECIFICATIONS

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

Description	MCX(E)240x5	MCX(E)380x5
Operating Voltage [VAC]	12 - 280	48 - 380**
Transient Overvoltage [Vpk]	600	1200
Maximum Load Current [Arms] <sup>(2)</sup>	5	5
Minimum Load Current [Arms]	0.06	0.06
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.1	0.1
Maximum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] <sup>(3)</sup>	500	500
Maximum 1 Cycle Surge Current (50/60 Hz) [A <sub>pk</sub> ]	239 / 250	239 / 500
Maximum I <sup>2</sup> t for Fusing (50/60 Hz, ½ Cycle) [A <sup>2</sup> Sec]	285 / 260	285 / 260
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.4	1.4

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

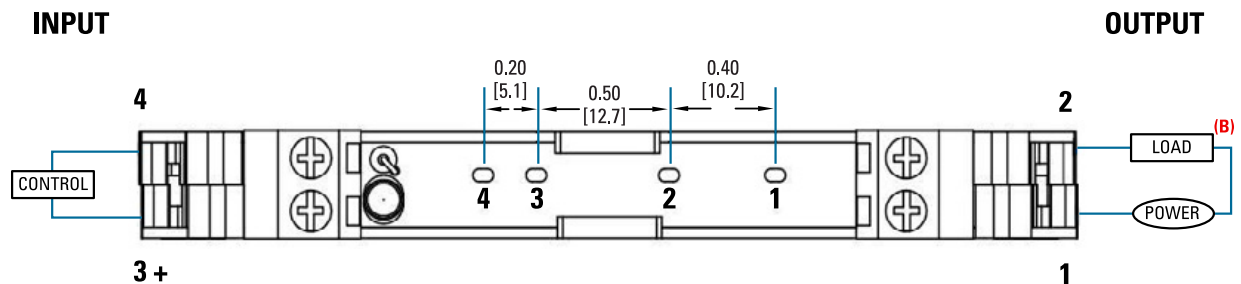
Description	DRA1-MCX	DRA1-MCX380D5	DRA1-MCXE
Control Voltage Range	3 - 15 VDC	4 - 15 VDC	15 - 32 VDC
Must Turn-On Voltage	3.0 VDC	4.0 VDC	15.0 Vrms
Must Turn-Off Voltage	1.0 VDC	1.0 VDC	1.0 VDC
Typical Input Current	15 mAdc	15 mAdc	15 mAdc
Nominal Input Impedance	300 Ohms	240 Ohms	1500 Ohms
Maximum Turn-On Time [msec]	½ Cycle	½ Cycle	½ Cycle
Maximum Turn-Off Time [msec]	½ Cycle	½ Cycle	½ Cycle

## 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)	0.08 oz (36.4 g)
Encapsulation	Thermally Conductive Epoxy



## WIRING DIAGRAM <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"

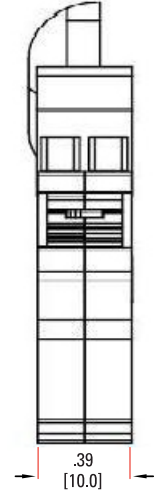
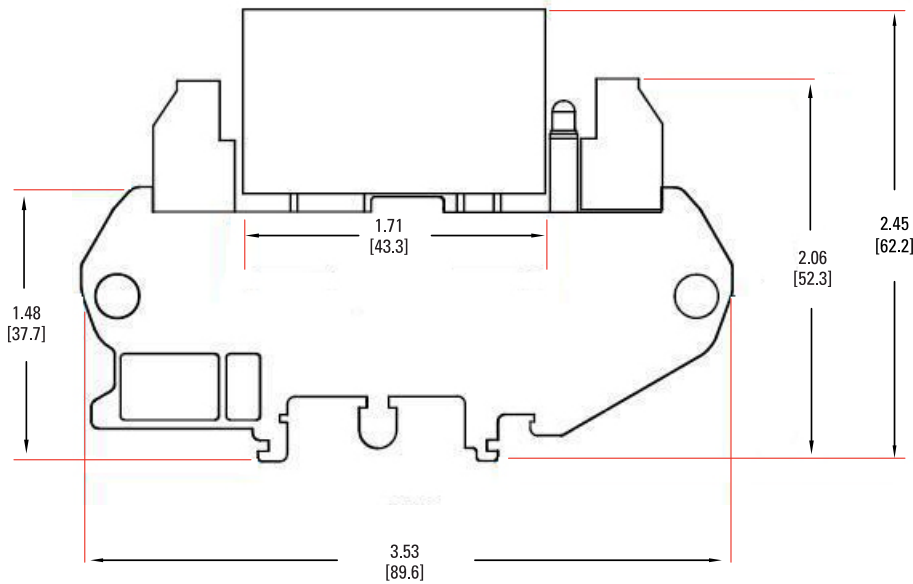
For additional information or specific questions, contact Sensata Technical Support.



## MECHANICAL SPECIFICATIONS

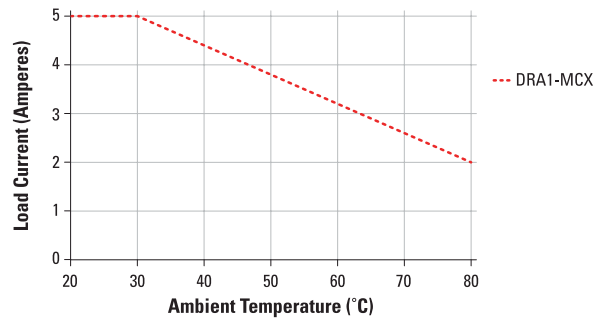
Tolerances:  $\pm 0.02$  in / 0.5 mm  
All dimensions are in inches [millimeters]

### MCX/MP Series SSR



## THERMAL DERATE INFORMATION

DRA1-MCX 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

\*\* NOTE: Voltages in excess of 380V will damage output terminals.

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



## AGENCY APPROVALS & CERTIFICATIONS



- UL: E116949 (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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