RVMA Series – Solid State Contactor

DIN Rail or Panel Mounted, Single Phase

Continental

CONTINENTAL INDUSTRIES INTERNATIONAL

- **Superior Surge Survival™ technology**
- **25 or 40 amp ratings**
- **575 or 660V max**
- **Integrated heatsink**
- **L.E.D. input indicator**
- **Direct copper bonded SCRs**
- **Meets EN60947-4-3 and EN55011**

SPECIFICATIONS:

Load type:	Resistive
Input:	4-20mA, 6Vdc max drop@20mA
Output:	
Current ratings:	25 or 40 Amps
Voltage ratings:	5V-24V to 575V max. (internal MOV), 6V-24V to 660V max.
Frequency:	47-63Hz
Voltage drop:	25A-1.0Vac, 40A -1.2Vac
I^2t Rating:	1350 A^2sec
Leakage @ V_{out} :	10mA max
Holding current:	100mA
Peak blocking voltage:	1400V
Offstate dVdT:	1000 V/µsec
Turn off Time:	<8.3 msec @ 60Hz
Operating temperature:	0°C to 40°C (up to 80°C with derating)
Operation:	4mA=0%, 12mA=50% (.250ms on/off), 16mA=75% (375ms on/125ms off, 20mA=100% (on continuous)

ORDERING CODES:

Model	/	Rating
RVMA		

Rating	
5V25	25 amps, 575 volts max
5V40	40 amps, 575 volts max
6V25	25 amps, 660 volts max
6V40	40 amps, 660 volts max

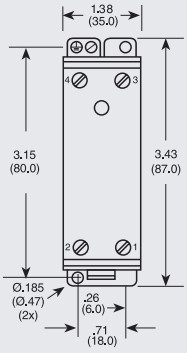
Semiconductor Fuse Accessories	
FUSE-KIT-14-025	25A fuse and holder
FUSE-KIT-14-040	40A fuse and holder
FUSE-EXT-14-025	25A fuse only
FUSE-EXT-14-040	40A fuse only
FUSE-HLDR-14-01	10-50A fuse holder only*

* Dimensions inches (mm)3.74 x 1.02 x 3..38 (95 x 26 x 86)

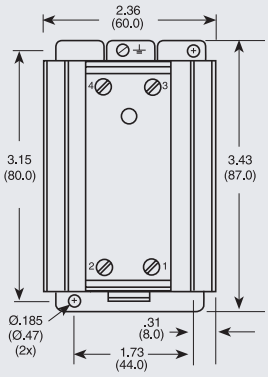
DIMENSIONS

Front View

25 Amp unit

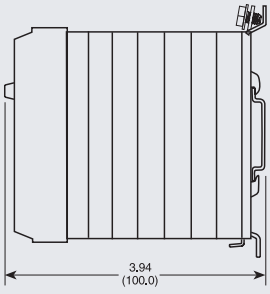


40 Amp unit



Side View

25 Amp and 40 Amp units



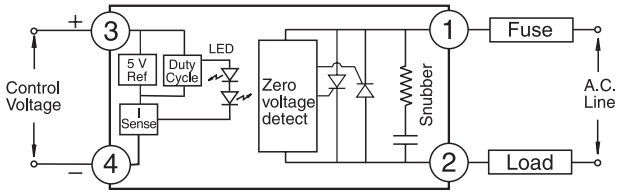
Transient Voltage Protection:

When operating a solid state relay in an electrically noisy environment, large voltage transients may damage the relay. To protect against this occurrence, it is advisable to install appropriate varistors across the respective supply and load terminals of the relay output. The "5V" option is available for customers who want the MOV's to be supplied internally with the solid state relay.

Short-Circuit Protection:

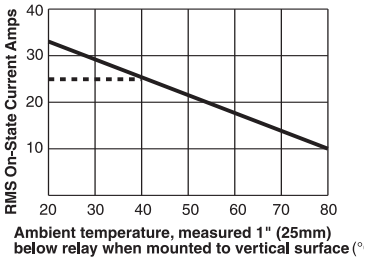
CII Continental recommends the use of an appropriately sized I^2t fuse on the supply side of the relay. Although a semiconductor relay is designed for virtually countless operation cycles, it can be destroyed by an overvoltage or a short circuit, unless protected adequately by an I^2t fuse. NOTE: Overload protection should be provided by another slow acting fuse in series with the short circuit protection fuse. (An overload being an over-current condition that is not of high enough amplitude to be considered a short circuit).

SCHEMATICS

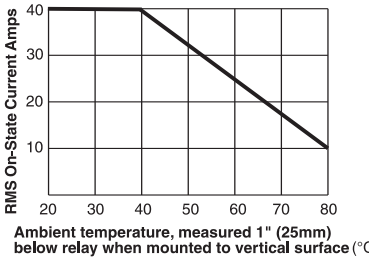


DERATING CURVES

25 Amp unit



40 Amp unit



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