RV Series – Solid State Contactor

DIN Rail or Panel Mounted, Single Phase

Cii Continental

CONTINENTAL INDUSTRIES INTERNATIONAL

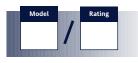
- Superior Surge Survival[™] technology
- 25 or 40 Amp ratings
- 575 or 660 Volt ratings
- Integrated heatsink
- L.E.D. input indicator
- Direct copper bonded SCRs
- Meets EN60947-4-3 and EN55011



SPECIFICATIONS:

Load type:	Resistive
Input:	
RVDA–DC Input:	ON > 4Vdc/5.4mA, 32Vdc/10mA max, current limited OFF < 1Vdc
RVAA–AC Input:	ON ≥ 100V, 280Vac max. OFF ≤ 2mA, 10k Ω impedance
Output:	
Current ratings:	25 or 40 amps
Voltage ratings:	5V option: 24V to 575V max. (internal MOV), 6V option: 24V to 660V max.
Frequency:	47-63 Hz
Voltage drop:	25A-1.0Vac, 40A -1.2Vac
I ² t Rating:	1350 A ² sec
Leakage @ V _{out} :	10 mA max
Holding current:	100 mA
Peak blocking voltage:	1400 V
Offstate dVdt:	1000 V/µsec
Dieletric strength:	4000 Vrms
Operating temperature:	0°C to 40°C (up to 80°C with derating)

ORDERING CODES:



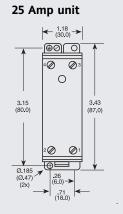
Model			Rating	
RVDA RVAA	4-32 Vdc 90-280 Vac	5V25 5V40 6V25 6V40	25 amps, 575 volts max 40 amps, 575 volts max 25 amps, 660 volts max 40 amps, 660 volts max	

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	10-40A fuse holder only*		

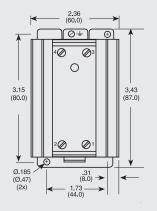
* Dimensions inches (mm) 3.74 x 1.02 x 3.38 (95 x 26 x 86)

DIMENSIONS

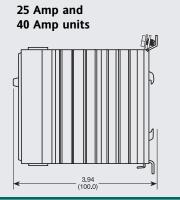
Front View



40 Amp unit



Side View



For more information contact your local representative:

Transient Voltage Protection:

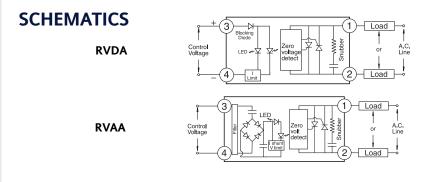
When operating a solid state relay in an electrically noisy environment, large voltage transients may damage the relay. To protect against this occurrence, it is advisable to install appropriate MOVs across the respective supply and load terminals of the relay output. The "5V" option is available for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

Short-Circuit Protection:

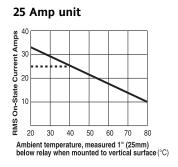
CII Continental recommends the use of an appropriately sized I^{t} fuse on the supply side of the relay to protect the SCR device. Although a semiconductor relay is designed for virtually countless operation cycles, it can be destroyed by an overvoltage or a short circuit, unless protected adequately by an I²t 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).

Installation

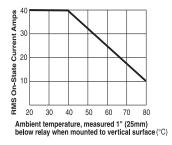
The new model RV is equipped with finger-safe caged terminals, a universal mounting bracket for DIN Rail mounting or bolt-on mounting and a new more efficient heatsink that only requires 0.18 inches between relays for cooling (Fin to Fin) — an industry improvement that reduces your panel requirements by 30-60% compared to other DIN Rail, solid state relay products.



DERATING CURVES



40 Amp unit



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