



ПРОМЭЛЕКТРОНИКА / sales@prom-elec.com

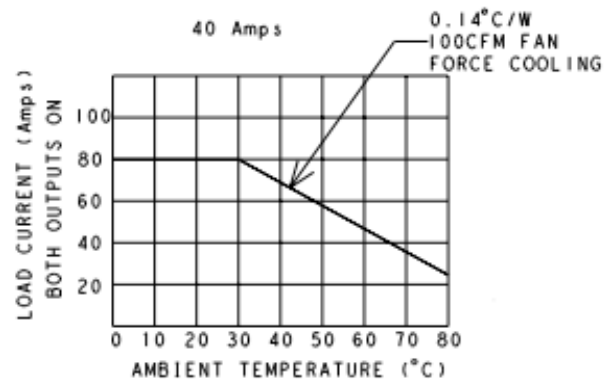
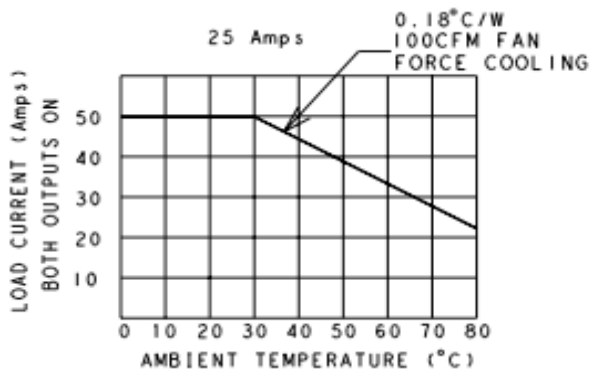
SSRD Series (Continued)

Output Specifications (@ 25° C, unless otherwise specified)

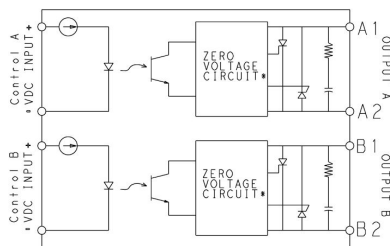
Parameter	Conditions	Units	25A Models	40A Models
Load Voltage Range V_L	$f = 47 - 63 \text{ Hz.}$	V rms	24 - 280	
Peak Voltage (Min.)	$t = 1 \text{ Min.}$	V peak	600	
Load Current Range I_L^*	Resistive	A rms	.1 - 25	.1 - 40
Single Cycle Surge Current (Max.)		A peak	300	800
Leakage Current (Off-State) (Max.)	$V_L = 280 \text{ V rms}$	mA rms	5.0	
On-State Voltage Drop (Max.)	$I_L = \text{Max.}$	V peak	1.6	1.8
Static dv/dt (Off-State) (Min.)		V/ μs	300	500
Thermal Resistance, Junction to Baseplate ($R_{\theta\text{-JC}}$) (Max.)	Both sections On	°C/W	2.35	.86
Turn-On Time (Max.)	$f = 60 / 50 \text{ Hz.}$	ms	8.3 / 10 for Zero Voltage Turn-On Models 0.1 for Random Voltage Turn-On Models	
Turn-Off Time (Max.)	$f = 60 / 50 \text{ Hz.}$	ms	10 for Zero & 8.3 for Random Voltage turn ON	
I ² T Rating	$t = 8.3 \text{ ms}$	A ² Sec.	510	3745
Load Power Factor Rating	$I_L = \text{Max.}$		0.5 - 1.0	

* See Derating curve

Electrical Characteristics (Thermal Derating Curves)



Operating Diagram

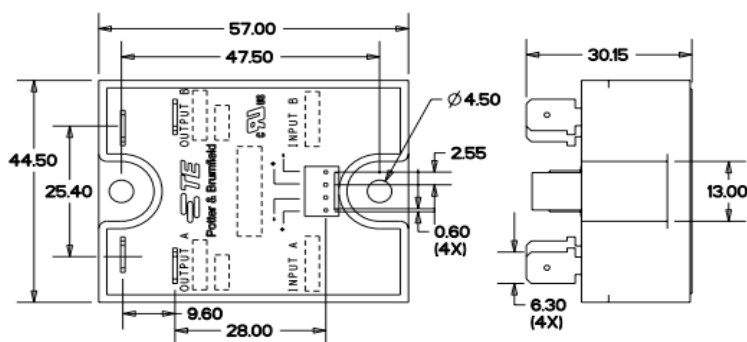


Random Turn-on units have a Random Turn-on circuit instead of zero voltage circuit

Heatsink Recommendations

- We recommend that solid state relay modules be mounted to a heatsink sufficient to maintain the module's base temperature at less than 85°C under worst case ambient temperature and load conditions.
- The heatsink mounting surface should be a smooth (30-40 micro-inch finish), flat (30-40 micro-inch flatness across mating area), un-painted surface which is clean and free of oxidation.
- An even coating of thermal compound (Dow Corning DC340 or equivalent) should be applied to both the heatsink and module mounting surfaces and spread to a uniform depth of .002" to eliminate all air pockets.
- The module should be mounted to the heatsink using two #10 screws.

Outline Dimensions



DIMENSION IN mm

Input Terminal Connectors are available from several different manufacturers.

TE P/N: 103976-3 or 640440-4
Methode P/N: 1300-004-422

Consult your local distributor for these or equivalent connectors.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[SSRD-240D25R](#)