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Find the *Tyco Electronics / Potter and Brumfield SSR-240D25R* at our website: *Click HERE*



SSR Series

"Hockey Puck" Solid State Relay With Paired SCR Output

File E29244

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

- Standard "hockey puck" package.
- LED indicator.
- Inverse parallel SCR output.
- 25, 50 & 125A rms versions.
- 240VAC & 480VAC output types.
- Zero voltage and random voltage turn-on versions.
- AC & DC input versions.
- 4000V rms optical isolation.
- Floating terminal design.
- Cover design with anti-rotation barriers

Engineering Data

Form: 1 Form A (SPST-NO).
Duty: Continuous.
Isolation: 4000V rms minimum.
Temperature Range:
Storage: –30°C to +100°C
Operating: –30°C to +80°C.
Case Material: Plastic, UL rated 94V-0.
Case and Mounting: Refer to outline dimension.
Termination: Refer to outline dimension.
Approximate Weight: 3.45 oz. (98g).

Ordering Information

Typical Part Number	SSR	-240	D	25	R

1. Basic Series: SSR = "hockey puck" inverse parallel SCR output solid state relay

2. Line Voltage: 240 = 24 - 280VAC 480 = 48 - 660VAC

3. Input Type & Voltage: A = 90 - 280VAC
D = 3 - 32VDC for 25A / 4 - 32VDC for 50A and 125A

4. Maximum Switching Rating: 25 = .1 - 25A rms, mounted to heatsink
50 = .1 - 50A rms, mounted to heatsink
125 = .1 - 125A rms, mounted to heatsink

5. Options: Blank = Zero voltage turn-on
R = Random voltage turn-on (phase controllable)

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

SSR-240A25	SSR-240D25	SSR-240D50
SSR-240A50	SSR-240D25R	SSR-480D125

Input Specifications

Parameter	AC Input		DC Input	
	Zero and Random V Turn-on Units		Zero and Random V Turn-on Units	
	25A	50A /125A	25A	50A /125A
Control Voltage Range V_{IN}	90 - 280VAC	90 - 280VAC	3 - 32VDC	4 - 32VDC
Must Operate Voltage $V_{IN(OP)}$ (Min.)	90VAC	90VAC	3VDC	4VDC
Must release Voltage $V_{IN(REL)}$ (Min.)	10VAC	10VAC	1VDC	1VDC
Input Current	4 - 26mA	6 - 30/2 -14mA	3 - 25mA(240 model); 6 - 30mA(480 model)	3 - 30mA(240 model); 6 - 30mA(480 model)

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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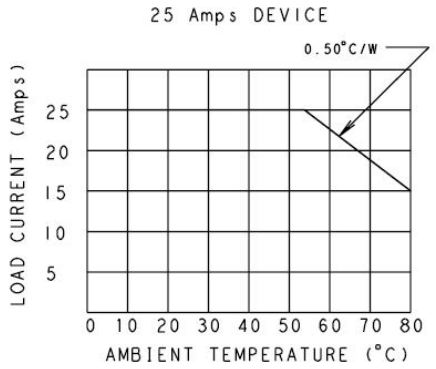
SSR Series (Continued)

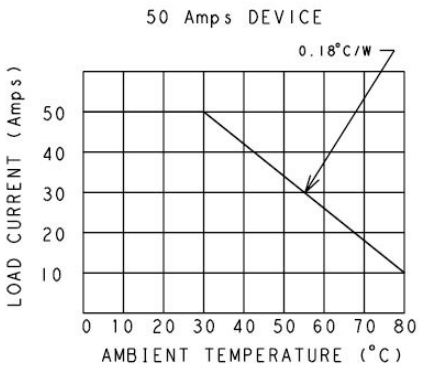
Output Specifications (@ 25° C, unless otherwise specified)

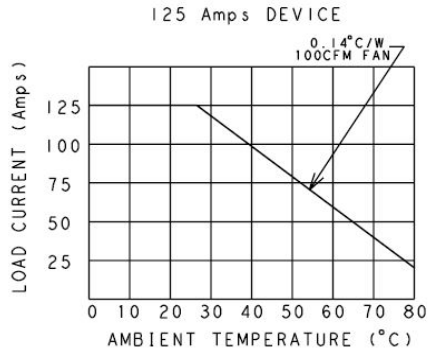
Parameter	Nom. Line Voltage	Conditions	Units	25A Models	50A Models	125A Models
Load Voltage Range V_L	240V Model		V rms	24 - 280		
	480V Model		V rms	48 - 660		
Repetitive Blocking Voltage (Min.)	240V Model		V peak	600		
	480V Model		V peak	1200		
Load Current Range I_L*	240 & 480V Models	Resistive	A rms	.1 - 25	.1 - 50	.1 - 125
Single Cycle Surge Current (Min.)	240 / 480V Models		A peak	300 / 400	520	1150
Leakage Current (Off-State) (Max.)	240V Model	f = 60 Hz. VL = 240V rms	mA rms	5		
	480V Model	f = 60 Hz. VL = 480V rms	mA rms	5		
On-State Voltage Drop (Max.)	240 & 480V Models	IL = Max.	Vrms	1.6	1.8	1.8
Static dv/dt (Off-State) ((Min.)	240 / 480V Models		V/µs	300 / 500	1000	
Thermal Resistance, Junction to Case (R_{0J-C}) (Max.)	240 / 480V Models		°C/W	2.35 / 1.1	0.55	0.35
Turn-On Time (Max.)	240 & 480V Models	f = 60 / 50 Hz.	ms	8.3 for Zero Voltage Turn-On DC input types, 40 for Zero Voltage Turn-On AC input types, 0.1 for Random Voltage Turn-On DC input types		
Turn-Off Time (Max.)	240 & 480V Models	f = 60 / 50 Hz.	ms	10 for zero voltage DC input types, 80 for AC input types, 8.3-Random(DC)		
I^2T Rating	240 / 480V Models	t = 8.3 ms	A^2 Sec.	510 / 800	1350	6600
Load Power Factor Rating	240 & 480V Models	IL = Max.		0.5 - 1.0		

* See Derating curve

Electrical Characteristics (Thermal Derating Curves)



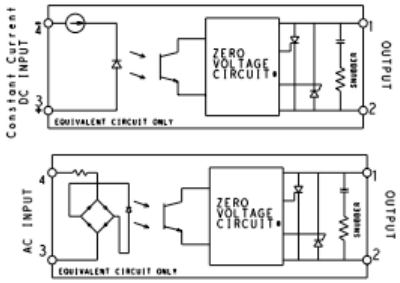




Heatsink Recommendations

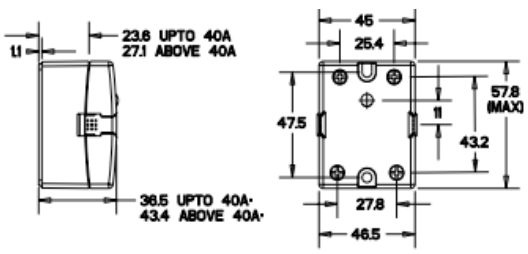
- We recommend that solid state relay modules be mounted to a heatsink sufficient to maintain the module's base temperature at less than 85°C under worst case ambient temperature and load conditions.
- The heatsink mounting surface should be a smooth (30-40 micro-inch finish), flat (30-40 micro-inch 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 #8 screws.

Operating Diagrams



* Random Turn-on Units have a Random Turn-on circuit instead of Zero Voltage Circuit

Outline Dimensions



* Overall height dimensions includes with clear cover
Dimensions in mm

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