Product Change Notification

Current Date: 14-Nov-2017

TE Connectivity

Product Change Notification: P-17-015048

PCN Date: 13-NOV-17

Customer: TTI Inc(0000139702)

Location: WORLDWIDE

Agreement: Agreement Unknown

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

General Product Description:
Solid State Relays - SSR Series

Description of Changes	
Change of Specifications and Change of Manufacturing location (Subcon and supplier changes) Key electrical changes specifications are listed below: 1. Input parameters changed from 3-32VDC to 4-32VDC for 50A and 125A 2. Single cycle surge current changed from 250A to 300A for 25A/240V & 400A for 25A/480V 3. Single cycle surge current changed from 750A to 520A for 50A 4. Single cycle surge current changed from 1700A to 1150A for 125A 5. Static dv/dt changed from 500 to 300V/ s for 25A /240V 6. Static dv/dt changed from 500 to 1000V/ s for 50A and 125A 7. I2T Rating changed from 937 to 510A2sec for 25A/240V and 800A2sec for 25A/480Vdc 8. I2T Rating changed from 2458 to 1350A2sec for 50A 9. I2T Rating changed from 12000 to 6600A2sec for 125A 10. Color is changed from white to black 11. Using snubber output 12. Finger protection cover made default	
Color Change	

Other attachments:
Datasheet

Reason for Changes:	
Reduced new product development cycle	
Estimated Dates:	
Last Order Date (Obsolete Parts Only):	**First Date To Ship** (Changed Parts Only):
	01-JAN-2018
Last Ship Date (Obsolete Parts Only):	**Last Date for Mixed Shipments:** (Changed Parts Only):
	01-MAR-2018

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1393030-5	NO			"SSR-240A50"			
1393030-7	NO			"SSR-240D25"			
2-1393030-9	NO			"SSR-480D125"			
3-1393030-0	NO			"SSR-480D25"			
3-1393030-1	NO			"SSR-480D50"			

Customer: TTI Inc(1281288) **Location:** Fort Worth **Agreement Number:** TTI002

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1393030-5	NO			"SSR-240A50"			
1393030-7	NO			"SSR-240D25"			
2-1393030-9	NO			"SSR-480D125"			
3-1393030-0	NO			"SSR-480D25"			
3-1393030-1	NO			"SSR-480D50"			

Customer: TTI Inc(168830) **Location:** Fort Worth **Agreement Number:** Agreement Unknown

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1393030-5	NO			"SSR-240A50"			
1393030-7	NO			"SSR-240D25"			
2-1393030-9	NO			"SSR-480D125"			
3-1393030-0	NO			"SSR-480D25"			

SSR Series

"Hockey Puck" Solid State Relay With Paired SCR Output

c UL us 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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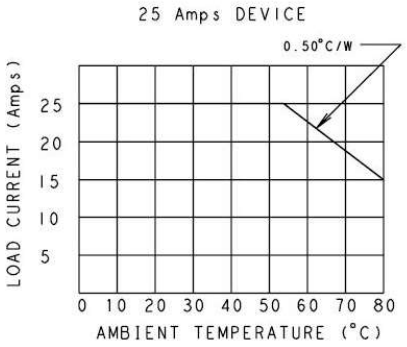
SSR Series (Continued)

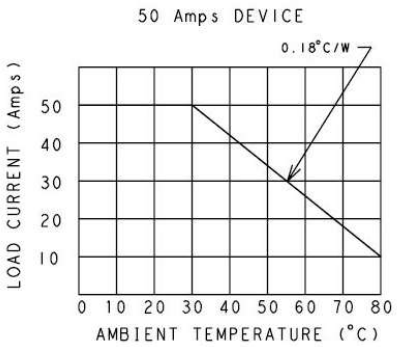
Output Specifications (@ 25° C, unless otherwise specified)

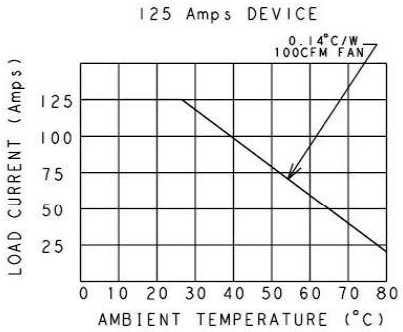
Parameter	Nom. Line Voltage	Conditions	Units	25A Models	50A Models	125A Models
Load Voltage Range V_L	240V Model		V rms	24 - 280		
	480V Model		V rms	48 - 660		
Repetitive Blocking Voltage (Min.)	240V Model		V peak	600		
	480V Model		V peak	1200		
Load Current Range I_L*	240 & 480V Models	Resistive	A 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 ($R_{\theta J-C}$) (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)



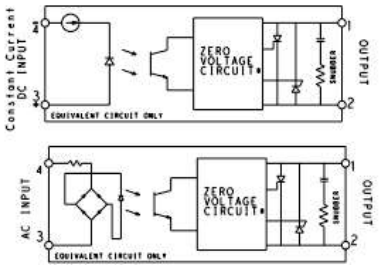




Heatsink Recommendations

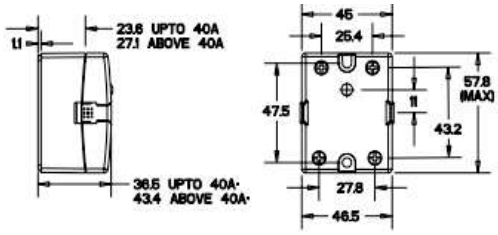
- We recommend that solid state relay modules be mounted to a heatsink sufficient to maintain the module's base temperature at less than 85°C under worst case ambient temperature and load conditions.
- The heatsink mounting surface should be a smooth (30-40 micro-inch finish), flat (30-40 micro-inch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