

- ★ High Reliability by S.M.T. & TQC.
(Surface Mounting Technology)
- ★ High Isolation over than 50MΩ / 500VDC
- ★ High Dielectric over than 2.5KV
- ★ Low Enable Current less than 7.5mA / 12VDC
C MOS IC or TTL Compatible.
- ★ Low EMI / EFI & Surge by Zero Cross Trigger Method.
- ★ High Surge Current Duration Over 10 Times of Rated Current / One Cycle
- ★ High Surge Voltage Duration by Snubber Circuit.
- ★ 表面貼焊技術及全面品管，提供最可靠的 SSR
- ★ 高絕緣阻抗超過 50MΩ / 500VDC
- ★ 高耐壓超過 2.5KV
- ★ 低觸發電流小於 7.5mA / 12VDC，可與 CMOS IC及 TTL 匹配
- ★ 零點觸發方式避免電磁 / 高頻干擾
- ★ 高耐過電流，超過10倍額定電流/一週期
- ★ 具緩衝迴路可吸收瞬間突破



Guiding of Model

Terminal Type

Ex. **SSR-40DA-H**

① ② ③ ④ ⑤

① **Product** 產品別

SSR: SINGLE PHASE SOLID STATE RELAY
單相固態繼電器
STR: THREE PHASE SOLID STATE RELAY
三相固態繼電器

② **Output Current** 輸出電流

10 : 10A 25 : 25A
40 : 40A 50 : 50A
75 : 75A

③ **Input Voltage** 輸入方式

D: DC 3W~32V<ON/OFF>
A: AC 80~250V<ON/OFF>
L: 4~20mA(linear)
V: VARIABLE RESISTER

④ **Output Voltage** 輸出電壓

A: AC VOLTAGE
D: DC VOLTAGE

⑤ **Output Voltage Range** 輸出電壓範圍

H : High Voltage Type < 90 ~ 480VAC >
Non: Standard Type < 24 ~ 380VAC >

PCB Type

Ex. **SSR-P03DA**

① ② ③ ④ ⑤

① **Product** 產品別

SSR : SINGLE PHASE SOLID STATE

② **Mounting Method** 固定方式

PCB: PCB TYPE

③ **Output Current** 輸出電流

03 = 3A
05 = 5A

④ **Input Method** 輸入方式

D : DC VOLTAGE

⑤ **Output Voltage** 輸出電壓

D : DC 5 ~ 60V
A : AC 24 ~ 280V

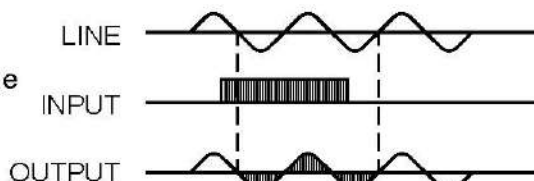
Control Method

Zero Cross Trigger Method

Output TURN ON or TURN OFF only on Zero Cross Point of sine wave , may avoid surge or EMI / RFI occurring.

Specially suited to control resistive , capacitive and Non - saturated inductive loads.

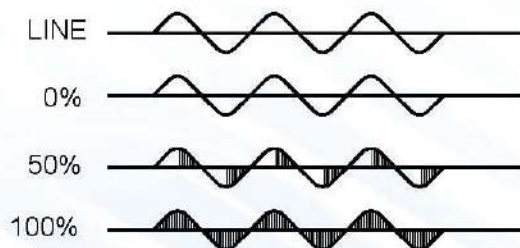
輸出只在正弦波的零點才會動作或復歸，可避免生突波或 EM / RFI，特別適於控制阻抗性，電容性和不飽和感抗性等負載。



Variable Resistance Control Method

< Trimmer Control Method >

Power Output is Controlled by the Trigger Angle of Triac with Variable Resistor 250K Ω /110VAC, 500K Ω /220VAC
 輸出功率以可變電阻 250K Ω /110VAC, 500K Ω /220VAC 控制 Triac 觸發角決定輸出功率。

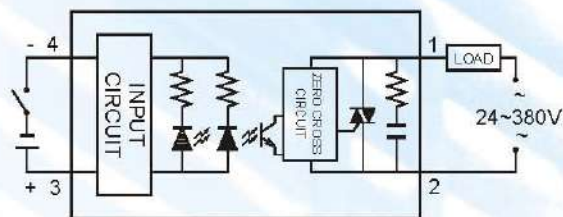


Application Hints

| Input | NPN | Output | NO | Input | PNP | Output | NO | Input | L.S. | Output | NO |
|-------|-----|--------|----|-------|-----|--------|----|----------------------------|------|--------|----|
| | | | | | | | | | | | |
| Input | NPN | Output | NC | Input | PNP | Output | NC | Latch Circuit (AC to AC) | | | |
| | | | | | | | | | | | |

■ Specification

| Type | Terminal Type | | | | | PCB Type |
|---------------------------|------------------------|------------|------------|------------|------------|-----------|
| Model | SSR-10DA | SSR-25DA | SSR-40DA | SSR-25DA-H | SSR-40DA-H | SSR-P03DA |
| Rated Load Current | 10A | 25A | 40A | 25A | 40A | 3A |
| Input Data | | | | | | |
| Operating Voltage | 3~32VDC | | | | | |
| Min. ON / OFF Voltage | ON > 2.4V , OFF < 1.0V | | | | | |
| Trigger Current | 7.5mA / 12V | | | | | |
| Control Method | Zero Cross Trigger | | | | | |
| Output Data | | | | | | |
| Operating Voltage | 24~380VAC | | 90~480VAC | | 24~380VAC | |
| Min. Black Voltage | 600 VAC < Repetive > | | | | | |
| Voltage Drop | 1.6 V / 25 C | | | | | |
| Max. Durated Current | 135A | 275A | 410A | 275A | 410A | 135A |
| Leakage Current | 3.0mA | 3.0mA | 3.0mA | 5.0mA | 5.0mA | 3.0mA |
| Response Time | ON < 10ms , OFF < 10ms | | | | | |
| General Data | | | | | | |
| Dielectric Strength | Over 2.5KVAC / 1min. | | | | | |
| Isolation Strength | Over 50MΩ / 500VDC | | | | | |
| Operating Temperature | -20 C ~+80 C | | | | | |
| Housing Material | Intensive ABS | | | | | |
| Weight | Appr. 105g | | | | | Appr. 15g |
| Connection Diagram | | | | | | |

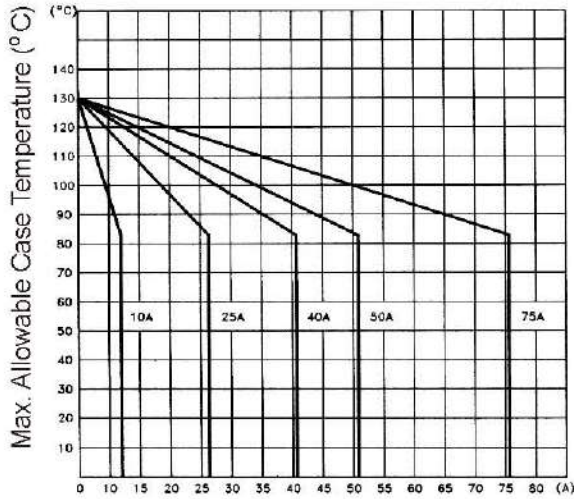


■ Specification

| Type | Terminal Type | | | |
|------------------------------|---------------------|-----------|------------|------------|
| Model | SSR-50DA | SSR-75DA | SSR-50DA-H | SSR-75DA-H |
| Rated Load Current | 50A | 75A | 50A | 75A |
| Input Data | | | | |
| Operating Voltage | 3~32VDC | | | |
| Min. ON / OFF Voltage | ON>2.4V , OFF<1.0V | | | |
| Trigger Current | 7.5mA / 12V | | | |
| Control Method | Zero Cross Trigger | | | |
| Operating Data | | | | |
| Operating Voltage | 24~380VAC | 90~480VAC | | |
| Min. Blocking Voltage | 600 VAC<Repetitive> | | | |
| Voltage Drop | 1.6V / 25°C | | | |
| Max. Duratde Current | 550A | 820A | 550A | 820A |
| Leakage Current Max. | 6.0mA | 6.0mA | 6.0mA | 6.0mA |
| Response Time | ON<10ms , OFF<10ms | | | |
| General Data | | | | |
| Dielectric Strength | Over 2.5KVAC/1min. | | | |
| Isolation Strength | Over 50M Ω / 500VDC | | | |
| Operating Temperature | -20°C ~+80°C | | | |
| Housing Material | Intensive ABS | | | |
| Weight | Appr.125g | | | |
| Connection Diagram/Dimension | | | | |
| | | | | |

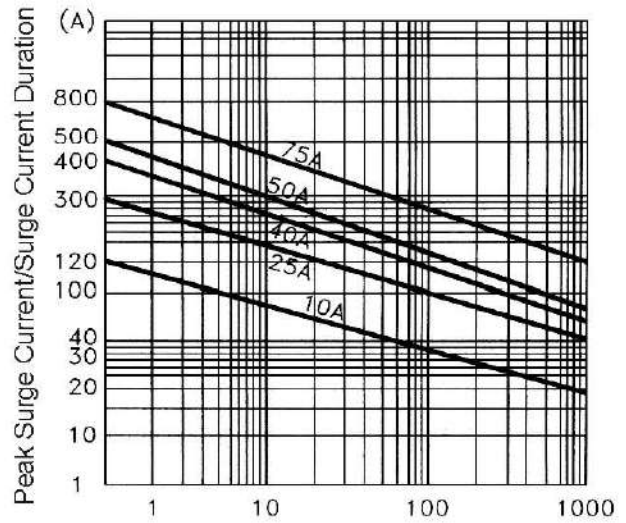
Curve of Characteristic

Max. Allowable Case Temperature
最高容許表面溫度



ON State Current (A) 動作電流

Peak Surge Current/Surge Current Duration
衝擊電流/承受次數



Surge Current Duration (Full cycles)

Dimension

| Terminal Type | PCB Type |
|---|--|
| <p>Terminal Type dimensions: Overall width 45.0mm, overall height 60.0mm. Terminal pitch 10.0mm. Distance from top edge to first terminal 6.0mm. Distance between terminals 7.0mm. Bottom terminal offset 3.0mm. Hole diameter $\phi 4.5$.</p> | <p>PCB Type dimensions: Overall width 43.0mm, height 26.0mm. Mounting hole diameter 5.1mm. Terminal pitch 10.2mm. Terminal offset 7.5mm. PCB hole diameter 0.8mm. PCB hole offset 5.5mm.</p> |

■ Dimension < Heat Sink >

