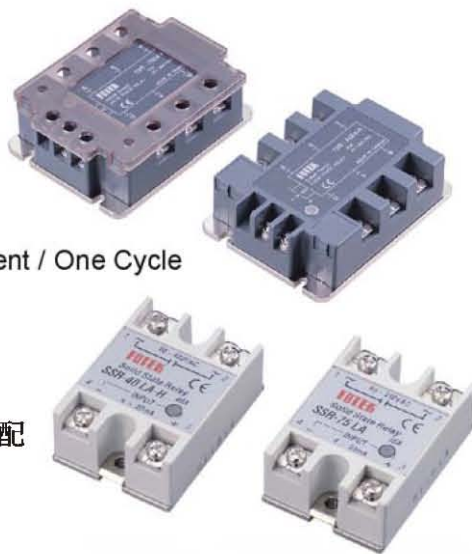


- ★ High Reliability by S.M.T. & TQC.
(Surface Mounting Technology)
- ★ High Isolation over than 50MΩ / 500VDC
- ★ High Dielectric over than 2.5KV
- ★ Low Enable Current less than 7.5mA / 12VDC
C MOS IC or TTL Compatible.
- ★ Low EMI / EFI & Surge by Zero Cross Trigger Method.
- ★ High Surge Current 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

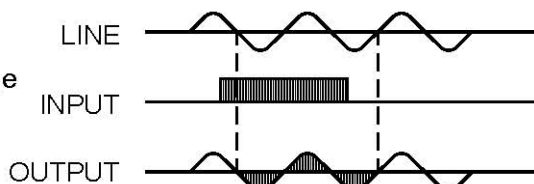
Control Method

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。

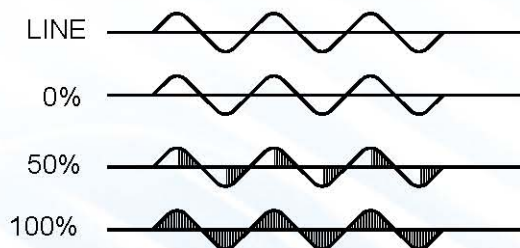


Variable Resistance Control Method

< 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。

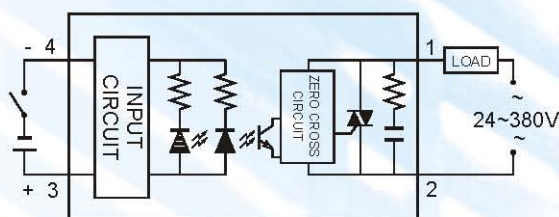


Application Hints

| 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 | | | | | | |



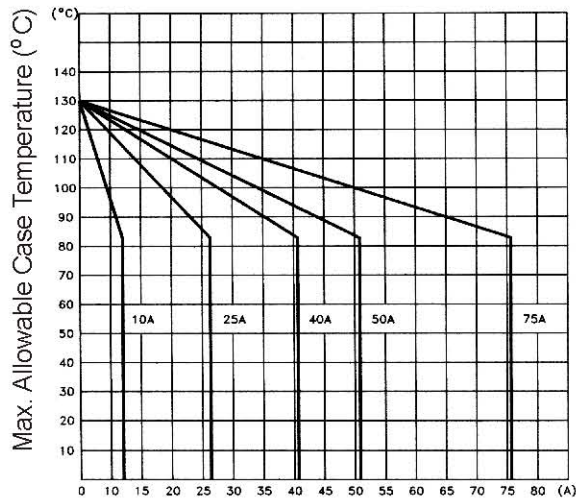
FOTEK SSR SERIES HIGH CURRENT DC TO AC SOLID STATE RELAY

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 | | | | |
| | | | | |

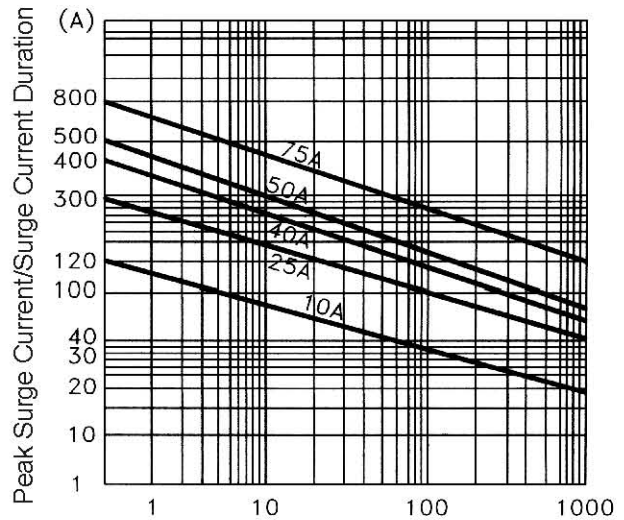
Curve of Characteristic

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 diameter $\phi 4.5$. Terminal spacing (top to bottom) is 10.0mm and 7.0mm. Bottom terminal height is 22.5mm, and terminal width is 3.0mm.</p> | <p>PCB Type dimensions: Overall width 43.0mm, overall height 26.0mm. Mounting hole diameter 0.8mm. Mounting hole positions from the left edge are 7.5mm, 5.1mm, 12.7mm, and 7.5mm. PCB thickness is 0.5mm, and component height is 5.5mm. Terminal labels: ④ IN +, ② -H-①, ② - OUT -.</p> |

■ Dimension < Heat Sink >

