

- . High reliability by S.M.T. & TQC. (SURFACE MOUNTING TECHNOLOGY)
- . High isolation more than 50MΩ / 500 VDC
- . High dielectric strength over 2.5 KV
- . Low switching current, current less than 7.5ma / 12 VDC C MOS IC or TTL compatible
- . Low EMI / EFI & surge by means of zero cross trigger method
- . High surge current duration over 10 times of rated current / one cycle
- . High surge voltage duration by Snubber circuit

Terminal Type

Eg. SSR - 40 D A-H

High voltage: H: high voltage type < 90-480 VAC > / Non: standard type < 24-380 VAC >

Output voltage: A - AC voltage / D - DC voltage

Input voltage: D - DC3W-32V<ON/OFF> / L - 4-20mA (linear)
A - AC80-250V<ON/OFF> / V - variable resistor

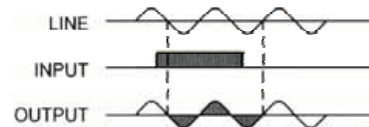
Output current: 10 - 10A 25 - 25A 40 - 40A 50 - 50A 75 - 75A

Product: SSR - single phase solid state relay
TSR - three phase solid state relay

Control Method

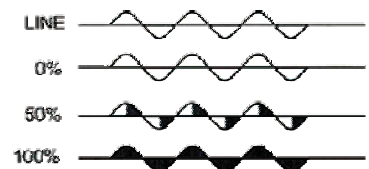
Zero Cross Trigger Method

- Output TURNS ON or TURNS OFF only on Zero Cross Point of sine wave, avoids surge or EMI / RFI occurring
- Special suited to control resistive, capacitive and non-saturated inductive loads



Variable Resistance Control Method (Trimmer control method)

- Power output is controlled by Trigger Angle of Triac with variable resistor 250Ω / 110 VAC, 500Ω / 200 VAC, 1MΩ / 380 VAC



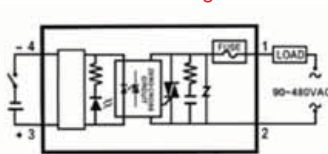
Solid State Relay



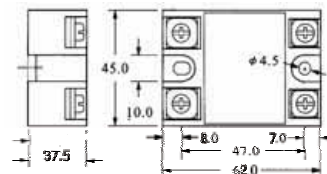
DC IN--AC OUT with BUILT IN FUSE



Connection Diagram



Dimensions



Operation

Semiconductor fuse inside. High compact structure with zero cross control and low trigger current.

High Voltage

Part Number	Price	Rated Current	Fuse Rating	Load Current	Input Voltage	Output Voltage
SSR-F-10 DA-H	R 288.00	10A	6A	4A	4-32 VCD	90-480 VAC
SSR-F-25 DA-H	R 315.00	25A	16A	10A	4-32 VCD	90-480 VAC
SSR-F-40 DA-H	R 350.00	40A	25A	16A	4-32 VCD	90-480 VAC

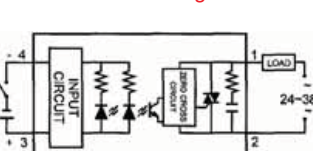
Low Voltage 24-380 VAC

Part Number	Price	Rated Current	Fuse Rating	Load Current	Input Voltage	Output Voltage
SSR-F-10 DA	R 280.00	10A	6A	4A	4-32 VCD	24-380 VAC
SSR-F-25 DA	R 280.00	25A	16A	10A	4-32 VCD	24-380 VAC
SSR-F-40 DA	R 315.00	40A	25A	16A	4-32 VCD	24-380 VAC

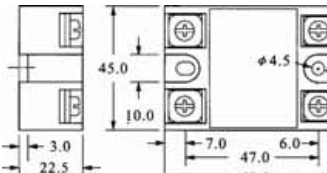
DC IN--AC OUT



Connection Diagram



Dimensions



Operation

DC input between 3-32 VDC will switch output on. See page 13 for accessories.

Part Number	Price	Max. Current	One cycle duration max	Input Voltage	Trigger Current	Output Voltage
SSR 10 DA	R 176.00	10A	135A	3-32 VCD	7.5mA/12V	24-380 VAC
SSR 25 DA	R 200.00	25A	275A	3-32 VCD	7.5mA/12V	24-380 VAC
SSR 40 DA	R 232.00	40A	410A	2-32 VCD	7.5mA/12V	24-380 VAC
SSR 50 DA	R 271.00	50A	550A	3-32 VCD	7.5mA/12V	24-380 VAC
SSR 75 DA	R 325.00	75A	820A	3-32 VCD	7.5mA/12V	24-380 VAC

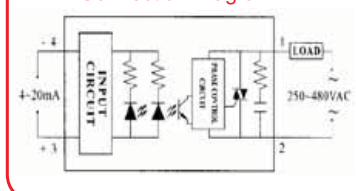


Solid State Relay

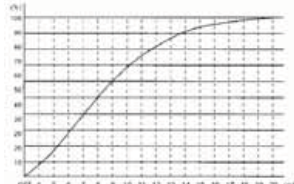
LINEAR CONTROL 4-20mA to 24-380 VAC



Connection Diagram



Input Current VS Output Current



Operation

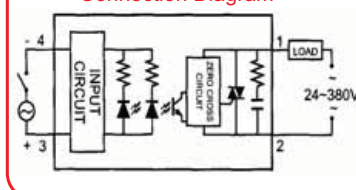
4- 20 mA input current will give a proportional output current. (See chart)

Part Number	Price	Max. Current	One cycle duration	Input Voltage	Input Resistance	Output Voltage
SSR 25 LA	R 261.00	25A	275A	3-20 mA	Appr. 1.2k Ω	90-250 VAC
SSR 40 LA	R 333.00	40A	410A	3-20 mA	Appr. 1.2k Ω	90-250 VAC
SSR 50 LA	R 437.00	50A	550A	3-20 mA	Appr. 1.2k Ω	90-250 VAC
SSR 75 LA	R 582.00	75A	820A	3-20 mA	Appr. 1.2k Ω	90-250 VAC

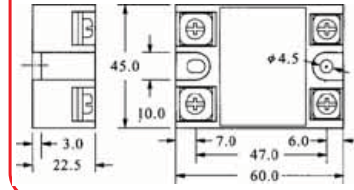
AC TO AC



Connection Diagram



Dimensions



Operation

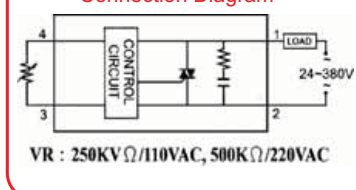
Input voltage between 80-250VAC will switch output on.

Part Number	Price	Max. Current	One cycle duration	Input Voltage	Trigger Current	Output Voltage
SSR 10 AA	R 200.00	10A	135A	80-250 VAC	5.0mA/110VAC	24-250 VAC
SSR 25 AA	R 253.00	25A	275A	80-250 VAC	5.0mA/110VAC	24-250 VAC
SSR 40 AA	R 296.00	40A	410A	80-250 VAC	5.0mA/110VAC	24-250 VAC

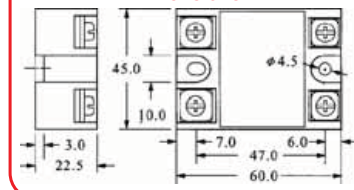
VARIABLE RESISTANCE INPUT(POTENTIOMETER)



Connection Diagram



Dimensions



Operation

By changing the input resistance, output is proportionally controlled.

0-110 VAC.....250k Ω Trimmer-potentiometer
0-220 VAC.....500k Ω Trimmer-potentiometer
0-380 VAC.....1M Ω Trimmer-potentiometer



Part Number	Price	Max. Current	One cycle duration	Input Method	Output Voltage
SSR 25 VA	R 190.00	25A	275A	Potentiometer	24-380 VAC
SSR 40 VA	R 232.00	40A	410A	Potentiometer	24-380 VAC

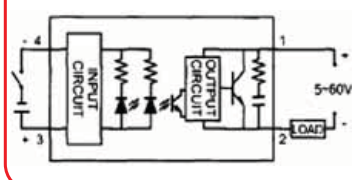
Solid State Relay



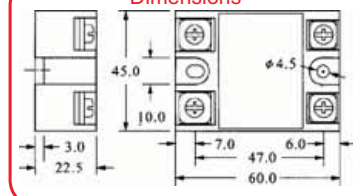
DC TO DC



Connection Diagram



Dimensions

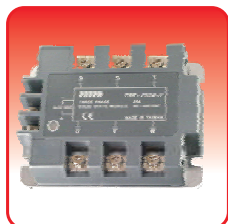


Operation

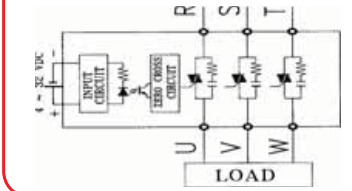
DC input voltage between 3 to 32VDC will switch output on.

Part Number	Price	Max. Current	Surge Current	Input Voltage	Trigger Current	Output Voltage
SSR 10 DD	R 232.00	10A	30 A	3-32 VCD	7,5 mA	5-60 VCD

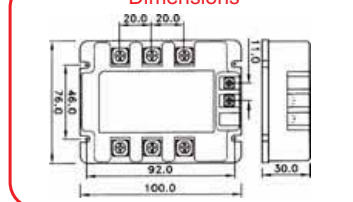
THREE PHASE



Connection Diagram



Dimensions



Operation

Single DC input between 4 to 32VDC will switch all 3 outputs on.

Part Number	Price	Max. Current	Surge Current	Input Voltage	Trigger Current	Output Voltage
TSR 25 DA-H	R 721.00	25 A	275 A	4-32 VDC	7,5 mA	90-480 VAC
TSR 40 DA-H	R 802.00	40 A	410 A	4-32 VDC	7,5 mA	90-480 VAC

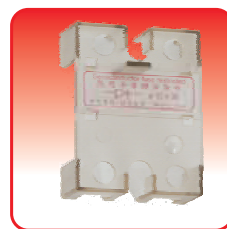
COOLING FAN For 3 Phase SSR



DIN RAIL BRACKET



SSR COVER Plastic



HEAT TRANSFER PAD



Part Number	Price
SF-23092A	R 246.00

Part Number	Price
GS-BR-1	R 28.00

Part Number	Price
CSR 1	R 21.00

Part Number	Price
HS 4258	R 19.00