SSR Series

- Built-in operation indicator
- High isolation over than 50MΩ(500VDC)
- High dielectric over than 2.5KV
- Low EMI / EFI & surge by zero cross trigger method
- Output snubber circuit protection

SSR – 10 – D – A – H

Solid State Relay

SSR	= 1 ϕ Type
SSR3	= 3 ϕ Type

Output Current

05 =	5A
10 =	10A
15 =	15A
20 =	20A
25 =	25A
40 =	40A
60 =	60A
80 =	80A

Output Voltage

D = DC5~60V
A = AC24~380V

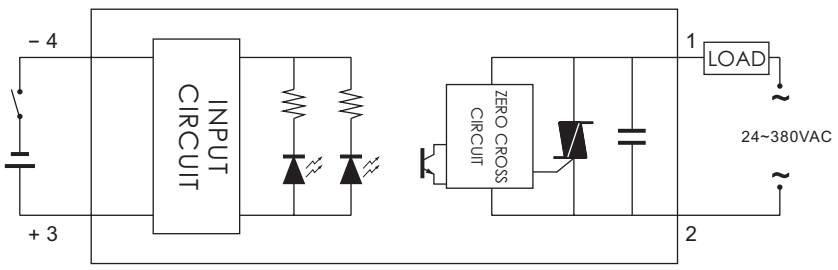
High Voltage

Nil = Standard Type
H = Output Voltage
AC75~480V
DC5~200V

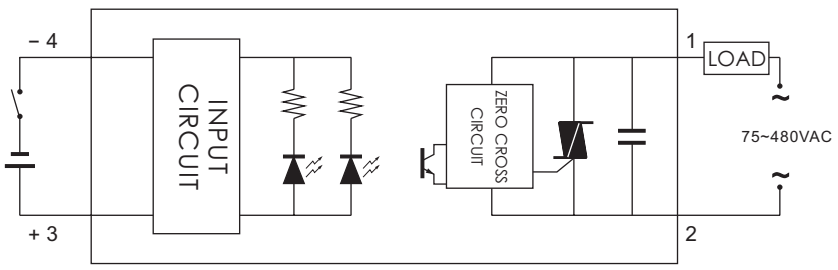
Input Type

D = DC4~32V
A = AC80~250V
L = 4~20mA
V = Adjusted Output Voltage
(Range=0~90%)

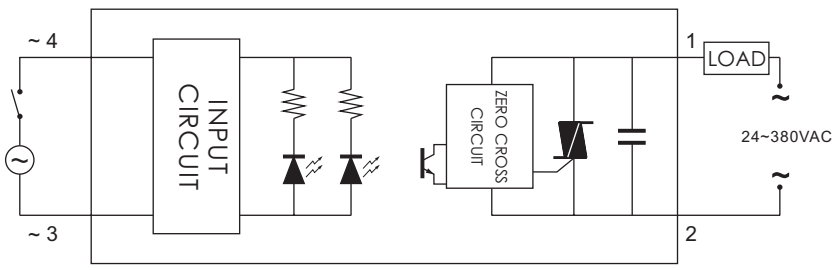
MODEL	SSR-05DA	SSR-10DA	SSR-15DA	SSR-25DA	SSR-40DA	SSR-60DA	SSR-80DA
LOAD CURRENT	5A	10A	15A	25A	40A	60A	80A
INPUT DATA							
OPERATING VOLTAGE	4~32VDC						
TRIGGER CURRENT	7.5mA/12VDC max						
CONTROL METHOD	Zero Cross Trigger						
OUTPUT DATA							
OPERATING VOLTAGE	24~380VAC						
VOLTAGE DROP	1.6V						
LEAKAGE CURRENT	< 3.0mA						
RESPONSE TIME	ON<10ms, OFF<10ms						
GENERAL DATA							
INSULATION RESISTANCE	Min. 50MΩ (500VDC)						
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min						
AMBIENT TEMPERATURE	-20℃~+80						
AMBIENT HUMIDITY	45%~85%RH						
WEIGHT	Appr. 105g						
CONNECTION DIAGRAM							



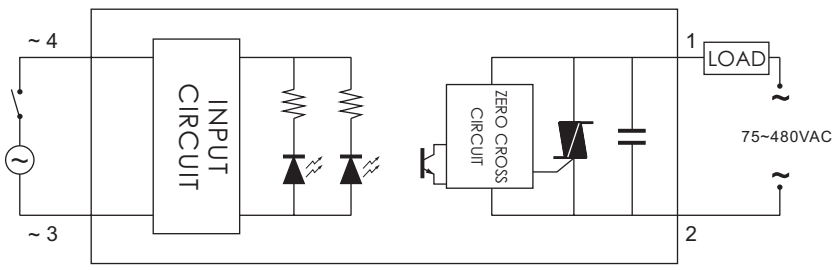
MODEL	SSR-10DA-H	SSR-15DA-H	SSR-25DA-H	SSR-40DA-H	SSR-60DA-H	SSR-80DA-H
LOAD CURRENT	10A	15A	25A	40A	60A	80A
INPUT DATA						
OPERATING VOLTAGE	4~32VDC					
TRIGGER CURRENT	7.5mA/12VDC max					
CONTROL METHOD	Zero Cross Trigger					
OUTPUT DATA						
OPERATING VOLTAGE	75~480VAC					
VOLTAGE DROP	1.6V					
LEAKAGE CURRENT	< 5.0mA					
RESPONSE TIME	ON<10ms, OFF<10ms					
GENERAL DATA						
INSULATION RESISTANCE	Min. 50MΩ (500VDC)					
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min					
AMBIENT TEMPERATURE	-20℃~+80					
AMBIENT HUMIDITY	45%~85%RH					
WEIGHT	Appr. 105g					
CONNECTION DIAGRAM						



MODEL	SSR-05AA	SSR-10AA	SSR-15AA	SSR-25AA	SSR-40AA	SSR-60AA	SSR-80AA
LOAD CURRENT	5A	10A	15A	25A	40A	60A	80A
INPUT DATA							
OPERATING VOLTAGE	80~250VAC 50/60Hz						
TRIGGER CURRENT	5.0mA / 110VAC max						
CONTROL METHOD	Zero Cross Trigger						
OUTPUT DATA							
OPERATING VOLTAGE	24~380VAC						
VOLTAGE DROP	1.6V						
LEAKAGE CURRENT	< 3.0mA						
RESPONSE TIME	ON<20ms, OFF<20ms						
GENERAL DATA							
INSULATION RESISTANCE	Min. 50MΩ (500VDC)						
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min						
AMBIENT TEMPERATURE	-20℃~+80						
AMBIENT HUMIDITY	45%~85%RH						
WEIGHT	Appr. 100g						
CONNECTION DIAGRAM							

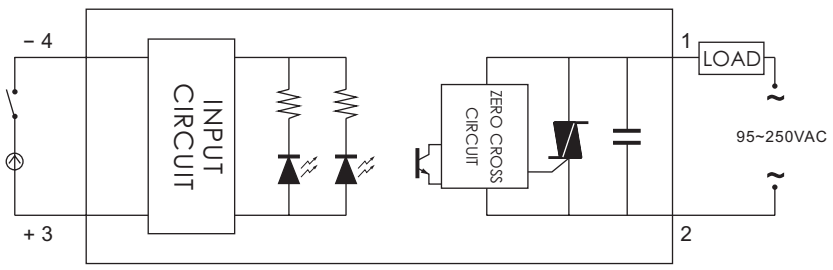


MODEL	SSR-10AA-H	SSR-15AA-H	SSR-25AA-H	SSR-40AA-H	SSR-60AA-H	SSR-80AA-H
LOAD CURRENT	10A	15A	25A	40A	60A	80A
INPUT DATA						
OPERATING VOLTAGE	80~250VAC 50/60Hz					
TRIGGER CURRENT	5.0mA / 110VAC max					
CONTROL METHOD	Zero Cross Trigger					
OUTPUT DATA						
OPERATING VOLTAGE	75~480VAC					
VOLTAGE DROP	1.6V					
LEAKAGE CURRENT	< 5.0mA					
RESPONSE TIME	ON<20ms, OFF<20ms					
GENERAL DATA						
INSULATION RESISTANCE	Min. 50MΩ (500VDC)					
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min					
AMBIENT TEMPERATURE	-20℃~+80					
AMBIENT HUMIDITY	45%~85%RH					
WEIGHT	Appr. 100g					
CONNECTION DIAGRAM						



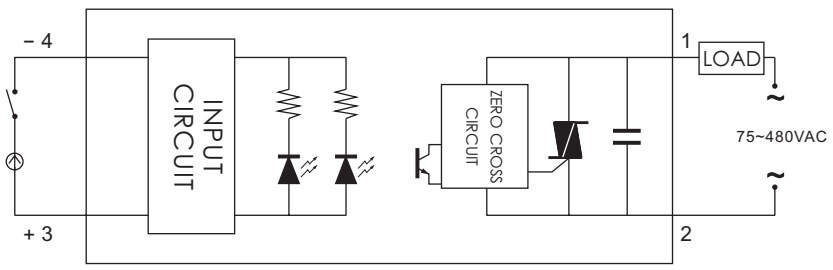
MODEL	SSR-05LA	SSR-10LA	SSR-15LA	SSR-25LA	SSR-40LA	SSR-60LA	SSR-80LA
LOAD CURRENT	5A	10A	15A	25A	40A	60A	80A
INPUT DATA							
OPERATING CURRENT	4~20mA						
TRIGGER CURRENT	Zero Cross Trigger						
OUTPUT DATA							
OPERATING VOLTAGE	90~250VAC						
VOLTAGE DROP	1.6V						
LEAKAGE CURRENT	< 3.0mA						
RESPONSE TIME	ON<10ms, OFF<10ms						
GENERAL DATA							
INSULATION RESISTANCE	Min. 50MΩ (500VDC)						
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min						
AMBIENT TEMPERATURE	-20℃~+80						
AMBIENT HUMIDITY	45%~85%RH						
WEIGHT	Appr. 105g						

CONNECTION DIAGRAM

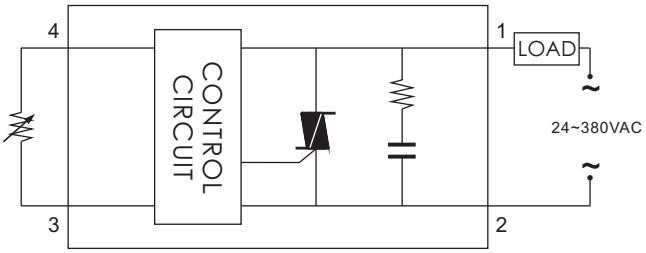


MODEL	SSR-10LA-H	SSR-15LA-H	SSR-25LA-H	SSR-40LA-H	SSR-60LA-H	SSR-80LA-H
LOAD CURRENT	10A	15A	25A	40A	60A	80A
INPUT DATA						
OPERATING CURRENT	4~20mA					
TRIGGER CURRENT	Zero Cross Trigger					
OUTPUT DATA						
OPERATING VOLTAGE	250~480VAC					
VOLTAGE DROP	1.6V					
LEAKAGE CURRENT	< 5.0mA					
RESPONSE TIME	ON<10ms, OFF<10ms					
GENERAL DATA						
INSULATION RESISTANCE	Min. 50MΩ (500VDC)					
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min					
AMBIENT TEMPERATURE	-20℃~+80					
AMBIENT HUMIDITY	45%~85%RH					
WEIGHT	Appr. 105g					

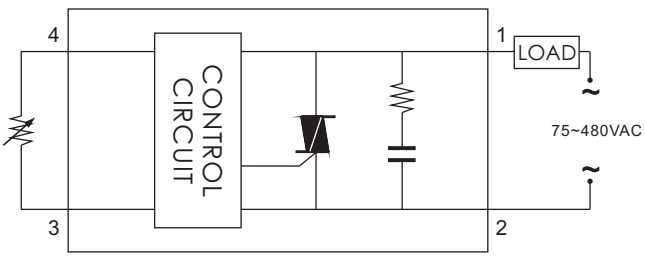
CONNECTION DIAGRAM



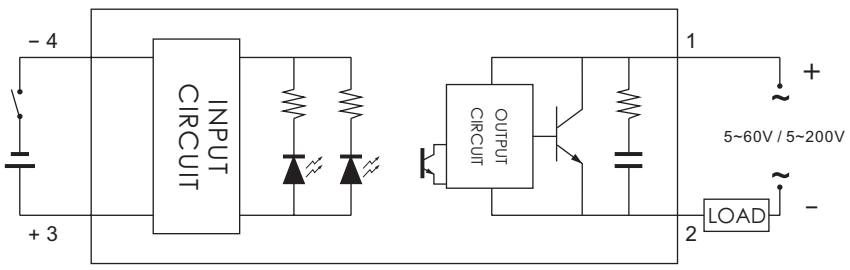
MODEL	SSR-05VA	SSR-10VA	SSR-15VA	SSR-25VA	SSR-40VA
LOAD CURRENT	5A	10A	15A	25A	40A
INPUT DATA					
VARIABLE RESISTANCE	Trimmer 250KΩ/110V, 500KΩ/220V, 1MΩ/380V				
CONTROL METHOD	Phase Control				
OUTPUT DATA					
OPERATING VOLTAGE	24~380VAC				
VOLTAGE DROP	1.6V				
LEAKAGE CURRENT	< 5.0mA				
GENERAL DATA					
INSULATION RESISTANCE	Min. 50MΩ (500VDC)				
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min				
AMBIENT TEMPERATURE	-20℃~+80				
AMBIENT HUMIDITY	45%~85%RH				
WEIGHT	Appr. 100g				
CONNECTION DIAGRAM					



MODEL	SSR-10VA-H	SSR-15VA-H	SSR-25VA-H	SSR-40VA-H
LOAD CURRENT	10A	15A	25A	40A
INPUT DATA				
VARIABLE RESISTANCE	Trimmer 250KΩ/110V, 500KΩ/220V, 1MΩ/380V			
CONTROL METHOD	Phase Control			
OUTPUT DATA				
OPERATING VOLTAGE	75~480VAC			
VOLTAGE DROP	1.6V			
LEAKAGE CURRENT	< 5.0mA			
GENERAL DATA				
INSULATION RESISTANCE	Min. 50MΩ (500VDC)			
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min			
AMBIENT TEMPERATURE	-20℃~+80			
AMBIENT HUMIDITY	45%~85%RH			
WEIGHT	Appr. 100g			
CONNECTION DIAGRAM				



MODEL	SSR-05DD	SSR-10DD	SSR-20DD	SSR-30DD	SSR-05DD-H	SSR-10DD-H
LOAD CURRENT	5A	10A	20A	30A	5A	10A
INPUT DATA						
OPERATING VOLTAGE	3~32VDC					
TRIGGER CURRENT	7.5mA/12VDC max					
CONTROL METHOD	Isolated by Photocouple					
OUTPUT DATA						
OPERATING VOLTAGE	5~60VDC				5~200VDC	
VOLTAGE DROP	1.6V					
LEAKAGE CURRENT	< 0.8mA					
RESPONSE TIME	1ms <ON+OFF>					
GENERAL DATA						
INSULATION RESISTANCE	Min. 50MΩ (500VDC)					
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min					
AMBIENT TEMPERATURE	-20℃~+80					
AMBIENT HUMIDITY	45%~85%RH					
WEIGHT	Appr. 110g					
CONNECTION DIAGRAM						

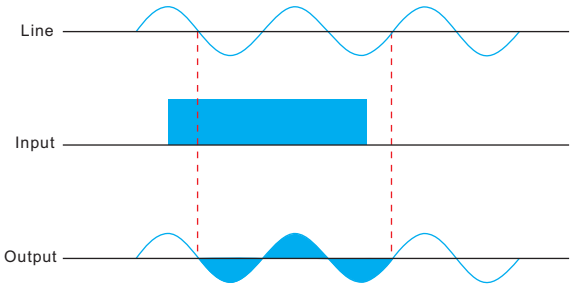


Control Method
Zero Cross Trigger Method

Output TURN ON or TURN OFF

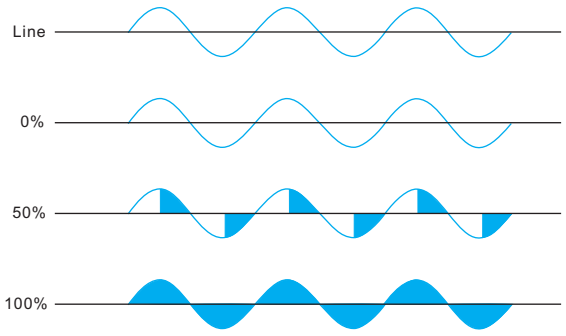
Only on zero cross point of sine wave , may avoid surge or EMI / RFI occuring

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



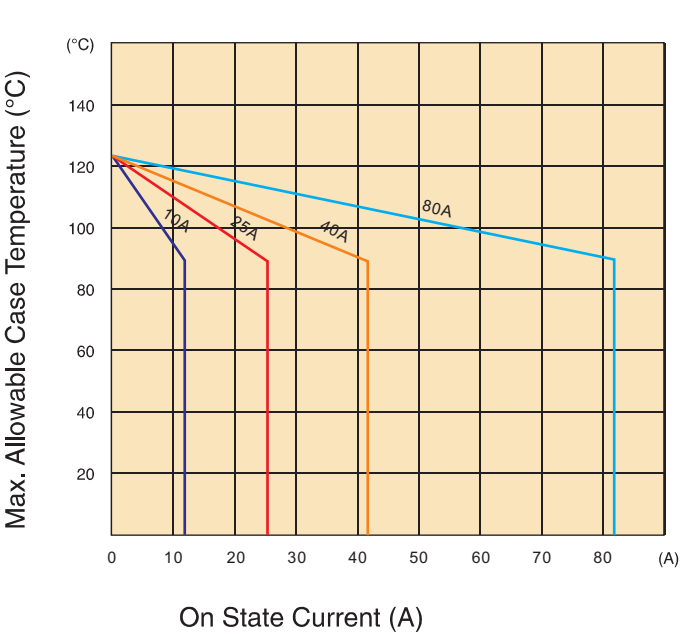
Variable Resistance Control Method < Trimmer Control >

Power output is controlled by the trigger angle of triac With variable resister 250KΩ / 110VAC, 500KΩ / 220VAC, 1MΩ / 380V

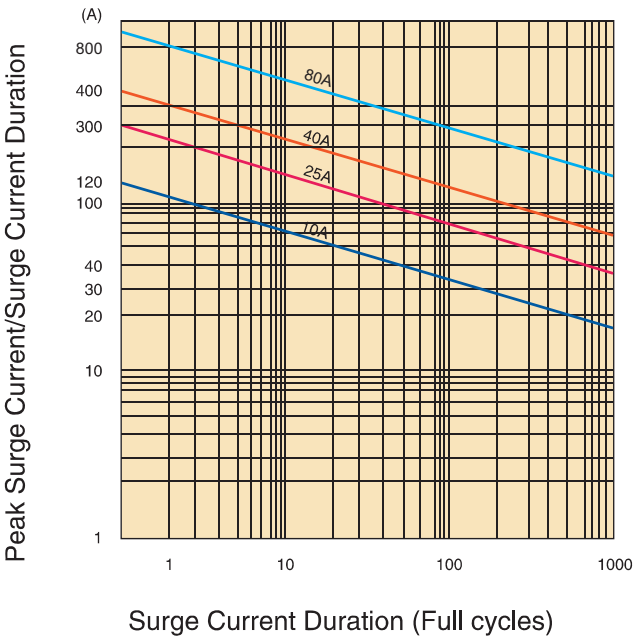


Referance Data

Max. Allowable Case Temperature

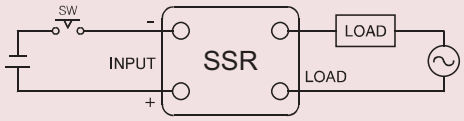


Peak Surge Current/Surge Current Duration

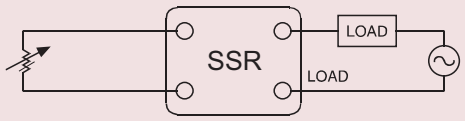


CONNECTION DIAGRAMS & DIMENSIONS

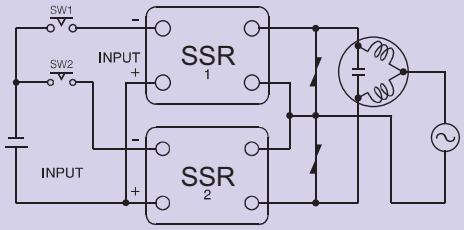
Switch control



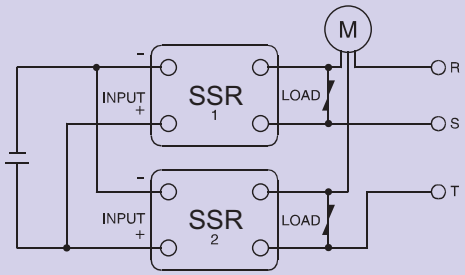
Variable Phase Control



1 ϕ Motor FOR/REV Control

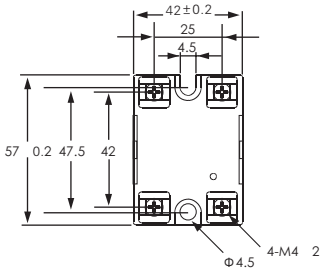


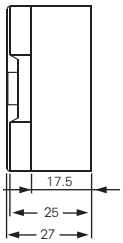
3 ϕ Motor Control

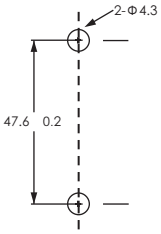


DIMENSIONS

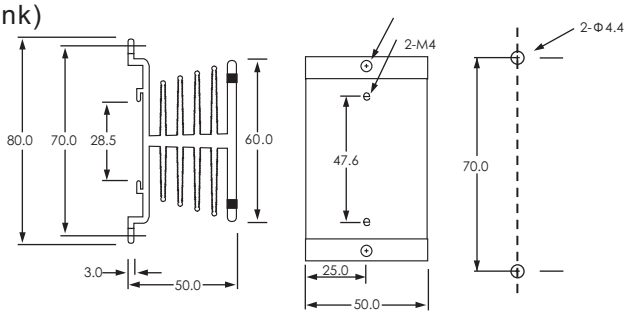
SSR-☐ DA SSR-☐ DA-H SSR-☐ AA SSR-☐ AA-H SSR-☐ VA SSR-☐ VA-H SSR-☐ DD SSR-☐ DD-H



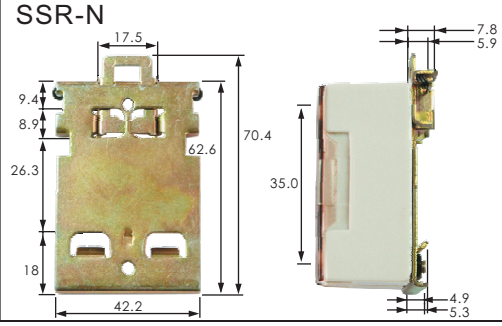




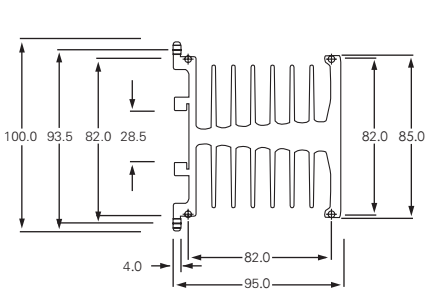
HS-1(Heat Sink)

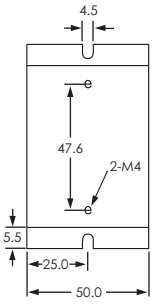


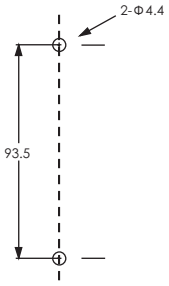
SSR-N



HS-2(Heat Sink)







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