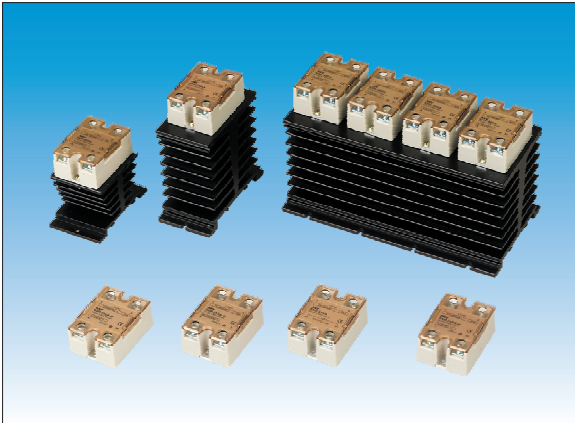
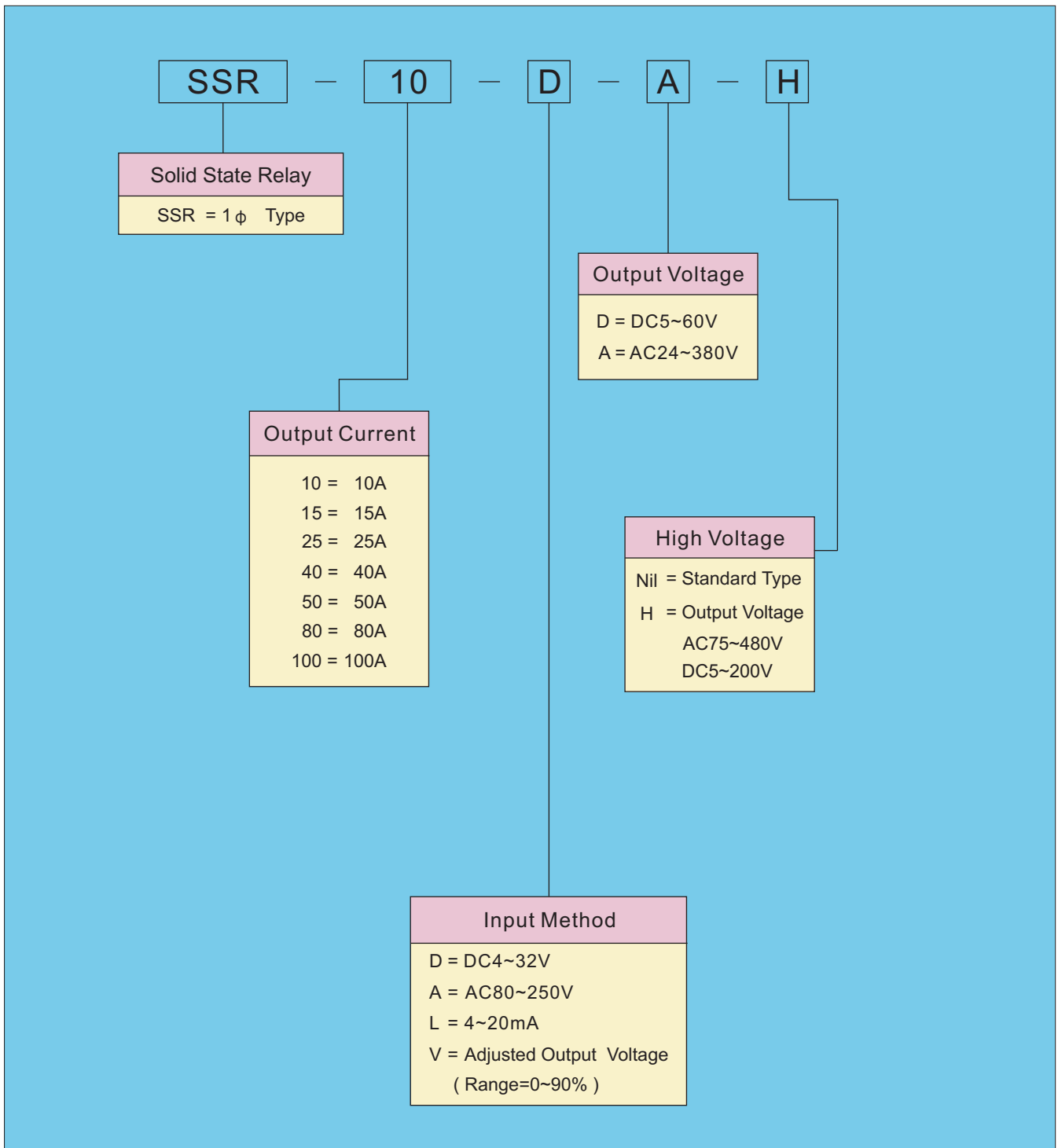


## SSR Series

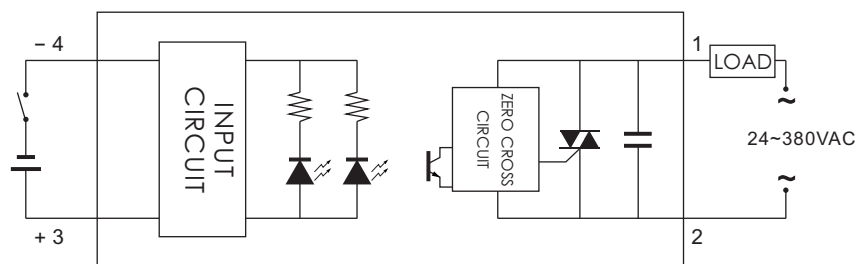


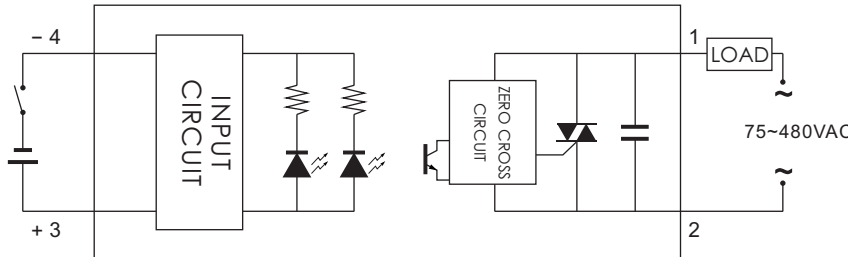
- Built-in operation indicator
- High isolation over than 50M $\Omega$  (500VDC)
- High dielectric over than 2.5KV
- Low EMI / EFI & surge by zero cross trigger method
- Output snubber circuit protection



MODEL	SSR-10DA	SSR-15DA	SSR-25DA	SSR-40DA	SSR-50DA	SSR-80DA	SSR-100DA
LOAD CURRENT	10A	15A	25A	40A	50A	80A	100A
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						

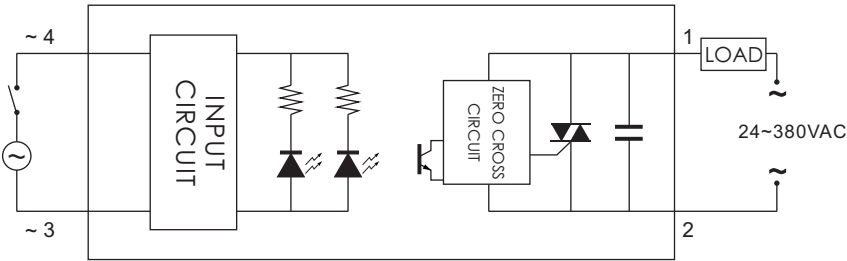
CONNECTION DIAGRAM



MODEL	SSR-10DA-H	SSR-15DA-H	SSR-25DA-H	SSR-40DA-H	SSR-50DA-H	SSR-80DA-H	SSR-100DA-H
LOAD CURRENT	10A	15A	25A	40A	50A	80A	100A
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-10AA	SSR-15AA	SSR-25AA	SSR-40AA	SSR-50AA	SSR-80AA	SSR-100AA
LOAD CURRENT	10A	15A	25A	40A	50A	80A	100A
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						

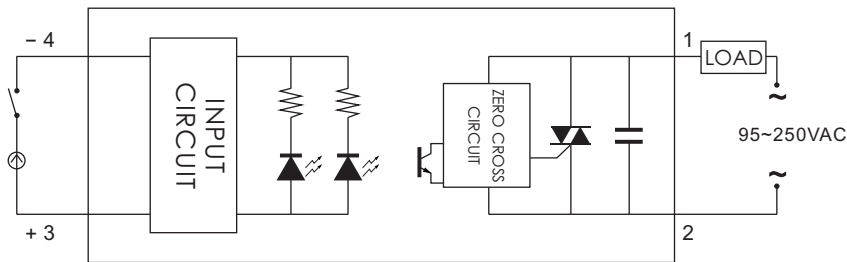
CONNECTION DIAGRAM



MODEL	SSR-10AA-H	SSR-15AA-H	SSR-25AA-H	SSR-40AA-H	SSR-50AA-H	SSR-80AA-H	SSR-100AA-H
LOAD CURRENT	10A	15A	25A	40A	50A	80A	100A
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-10LA	SSR-15LA	SSR-25LA	SSR-40LA	SSR-50LA	SSR-80LA
LOAD CURRENT	10A	15A	25A	40A	50A	80A
INPUT DATA						
TRIGGER CURRENT	4~20mA					
CONTROL METHOD	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					

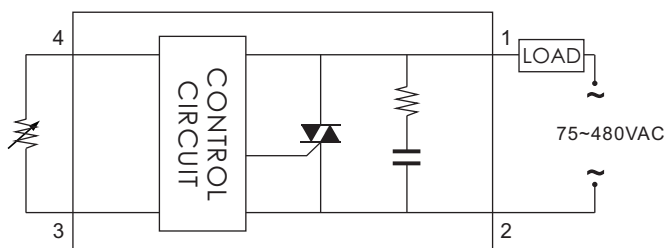
CONNECTION DIAGRAM



MODEL	SSR-10LA-H	SSR-15LA-H	SSR-25LA-H	SSR-40LA-H	SSR-50LA-H	SSR-80LA-H
LOAD CURRENT	10A	15A	25A	40A	50A	80A
INPUT DATA						
TRIGGER CURRENT	4~20mA					
CONTROL METHOD	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						

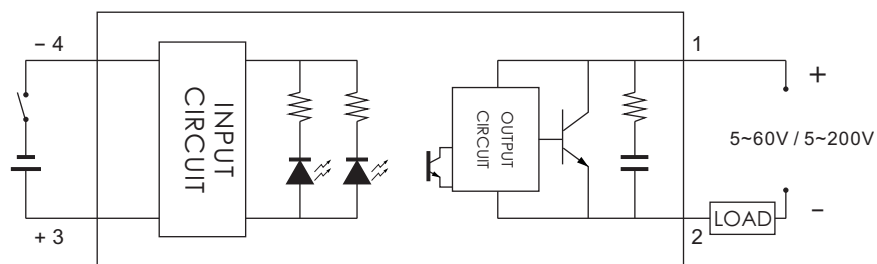
MODEL	SSR-10VA	SSR-15VA	SSR-25VA	SSR-40VA	SSR-50VA	SSR-80VA
LOAD CURRENT	10A	15A	25A	40A	50A	80A
INPUT DATA						
VARIABLE RESISTANCE	Trimmer 250KΩ /110V, 500KΩ /220V, 1MΩ /380V					
CONTROL METHOD	Phase Control					
OUTPUT DATA						
OPERATING VOLTAGE	24~380VAC					
VOLTAGE DROP	1.6V					
LEAKAGE CURRENT	< 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						
<div></div>						



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

MODEL	SSR-05DD	SSR-10DD	SSR-20DD	SSR-05DD-H	SSR-10DD-H
LOAD CURRENT	5A	10A	20A	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



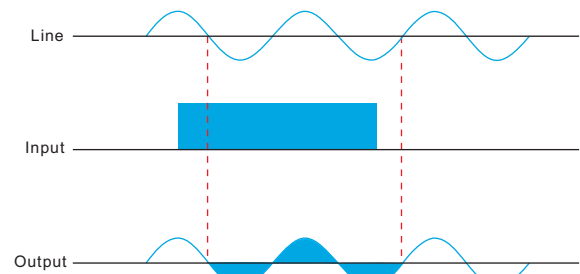
## Control Method Zero Cross Trigger Method

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

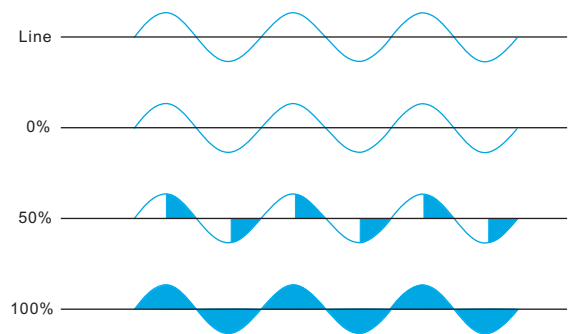


## Variable Resistance Control Method < Trimmer Control >

Power output is controlled by the trigger angle of

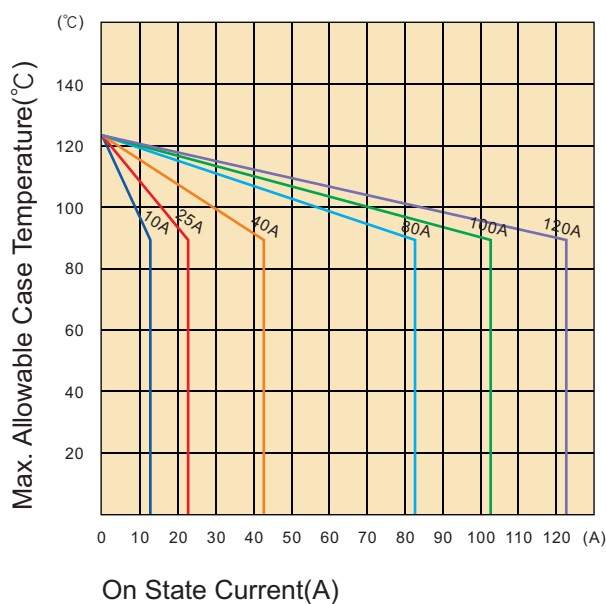
triac With variable resister 250K $\Omega$  / 110VAC,

500K $\Omega$  / 220VAC, 1M $\Omega$  / 380V

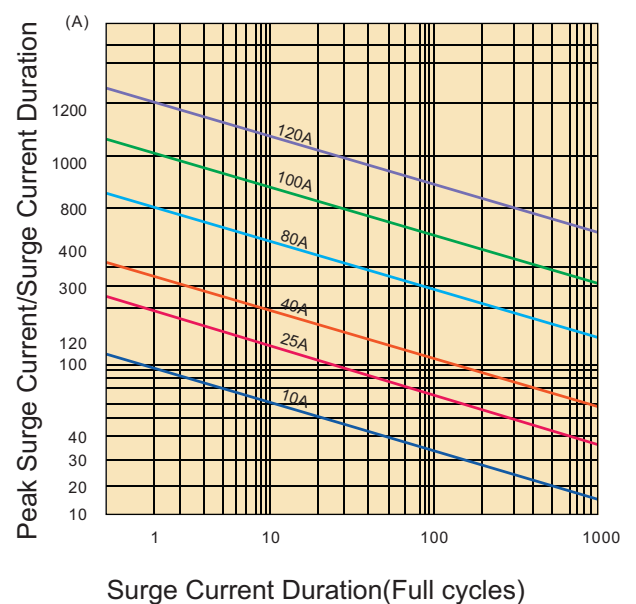


## Reference Data

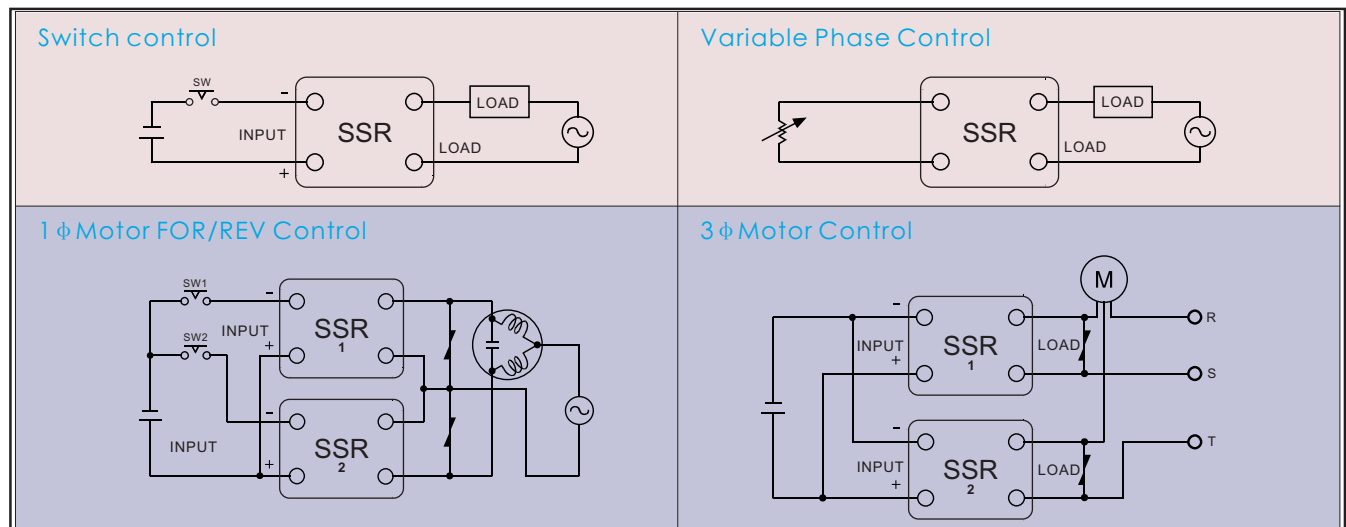
Max. Allowable Case Temperature



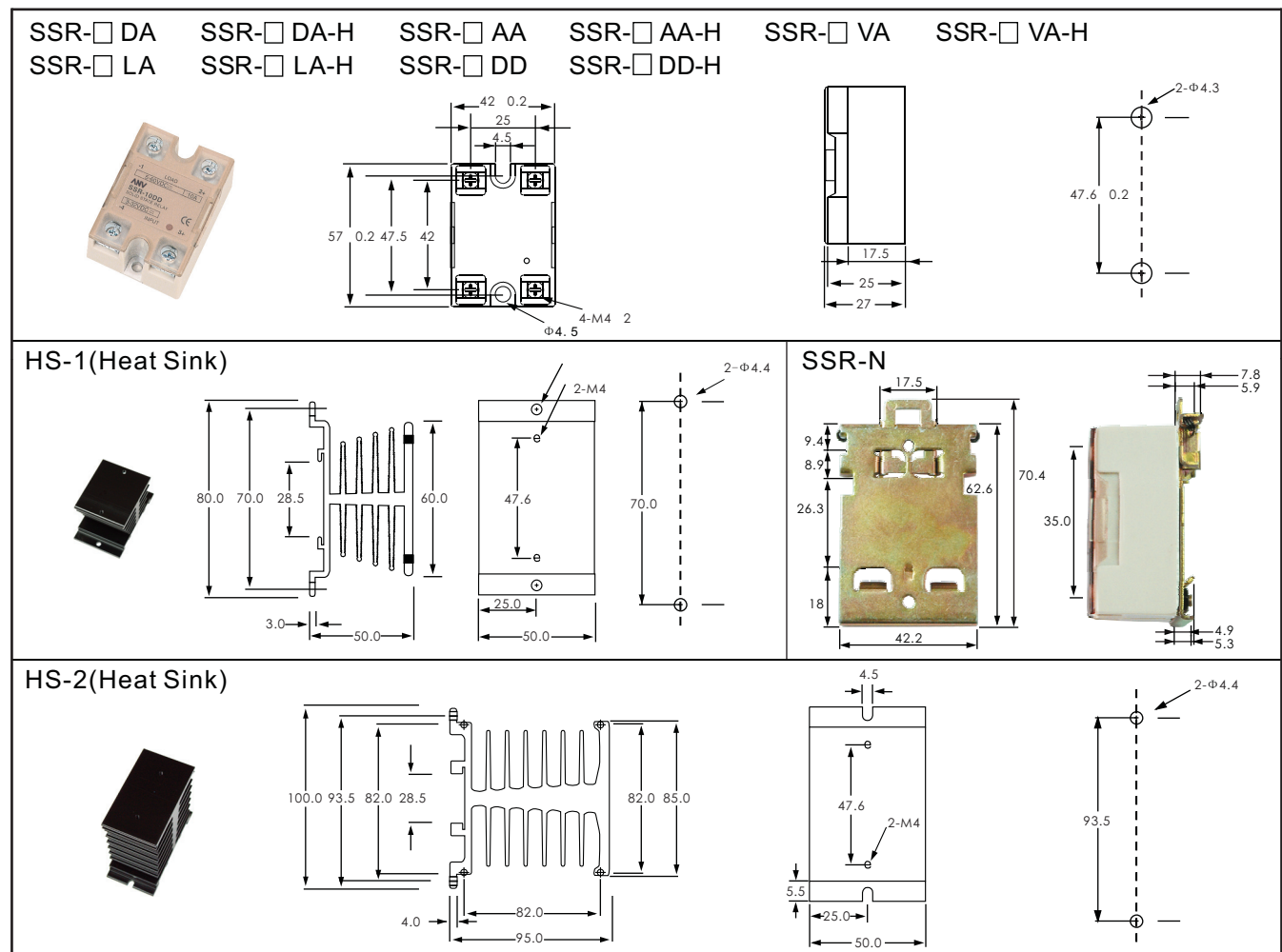
Peak Surge Current/Surge Current Duration



## CONNECTION DIAGRAMS



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