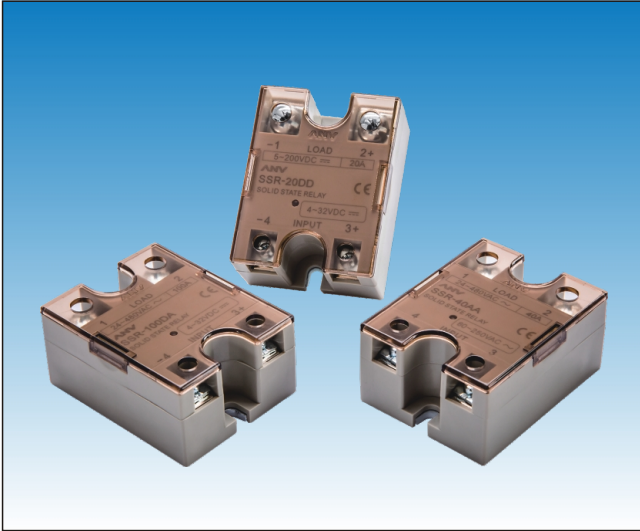


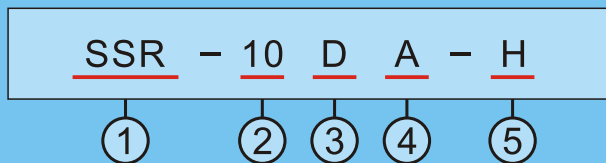
Solid state Relay

SSR (Single phase type)



- Built-in operation indicator
- High reliability by S.M.T. (Surface Mounting Technology)
- High isolation over than 50M Ω (500VDC)
- High dielectric over than 2.5KV
- Low EMI / EFI & surge by zero cross trigger method
- Output snubber circuit protection

ORDER INFORMATION



1. Solid State Relay Type

SSR: Single phase type

2. Load current

05: 5A	50: 50A
10: 10A	80: 80A
15: 15A	100: 100A
25: 25A	120: 120A
40: 40A	

3. Input voltage

D: DC4~32V(SSR-DA, SSR-DD)
 DC3~32V(SSR-120DA)
 A: AC80~250V(SSR-AA)
 AC90~250V(SSR-120AA)
 L: 4~20mA
 V: Adjusted output voltage

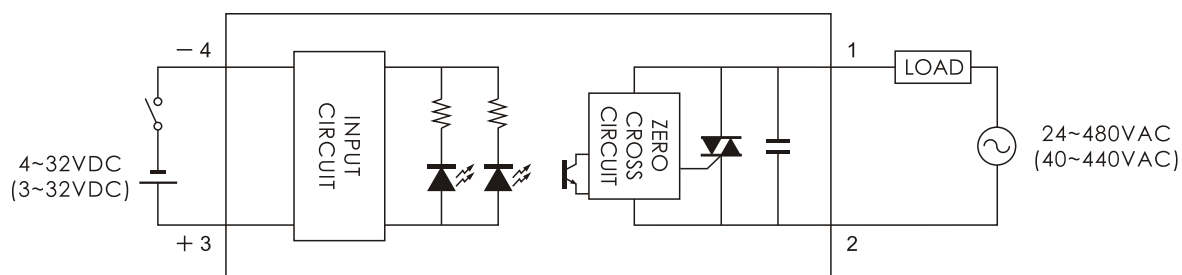
4. Output voltage

D: DC5~200V
 A: AC24~480V(SSR-DA, SSR-AA)
 AC40~440V(SSR-120DA,
 SSR-120AA)
 AC90~250V(SSR-LA)
 AC90~480V(SSR-VA)

5. High voltage

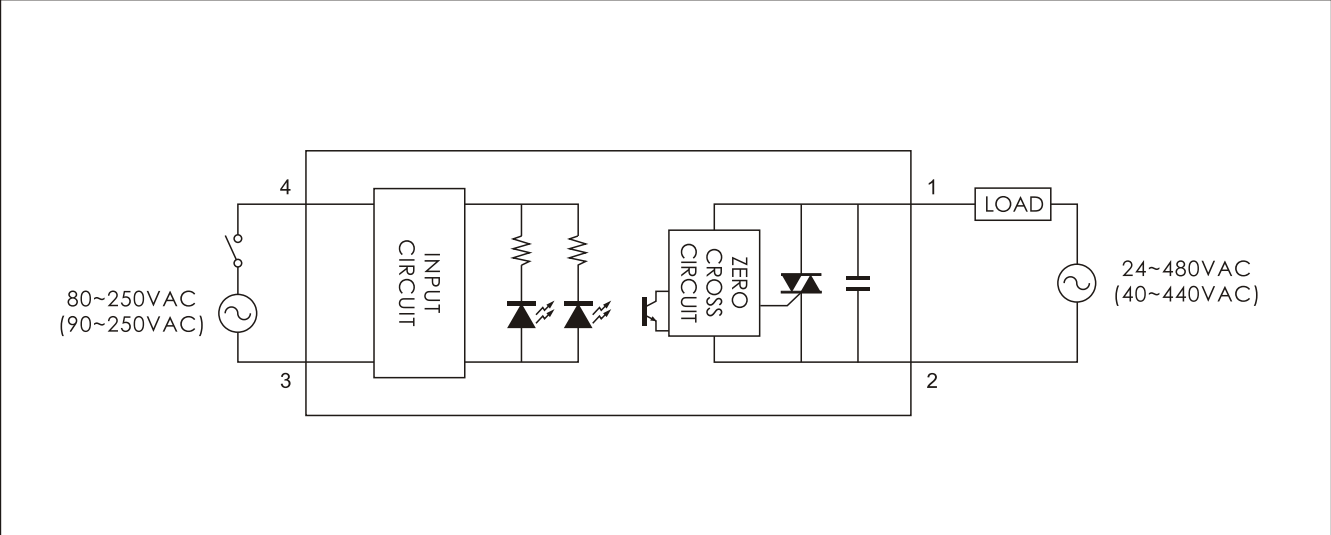
Non: Standard type
 H: AC250~480V(SSR-LA-H)

MODEL	SSR-10DA	SSR-15DA	SSR-25DA	SSR-40DA	SSR-50DA	SSR-80DA	SSR-100DA	SSR-120DA
LOAD CURRENT	10A	15A	25A	40A	50A	80A	100A	120A
INPUT								
OPERATING VOLTAGE	4~32VDC							3~32VDC
TRIGGER CURRENT	7.5mA/12VDC max							
CONTROL METHOD	Zero Cross Trigger							
OUTPUT								
OPERATING VOLTAGE	24~480VAC							40~440 VAC
VOLTAGE DROP	1.6V							
LEAKAGE CURRENT	< 3.0mA							
RESPONSE TIME	ON<10ms, OFF<10ms							
GENERAL								
INSULATION RESISTANCE	Min. 50MΩ(500VDC)							
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min							
AMBIENT TEMPERATURE	-20℃~+80℃							
AMBIENT HUMIDITY	45%~85%RH							
WEIGHT	Approx. 70g		Approx. 85g		Approx. 115g			Approx. 155g

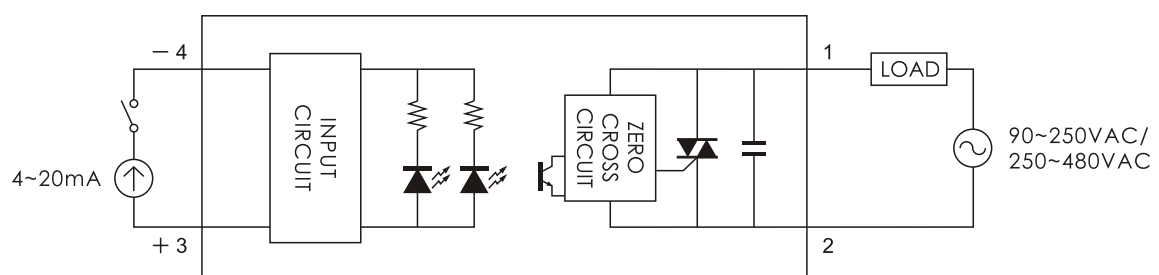
CONNECTION DIAGRAM


MODEL	SSR-10AA	SSR-15AA	SSR-25AA	SSR-40AA	SSR-50AA	SSR-80AA	SSR-100AA	SSR-120AA
LOAD CURRENT	10A	15A	25A	40A	50A	80A	100A	120A
INPUT								
OPERATING VOLTAGE	80~250VAC 50/60Hz							90~250 VAC
TRIGGER CURRENT	5.0mA/110VAC max							
CONTROL METHOD	Zero Cross Trigger							
OUTPUT								
OPERATING VOLTAGE	24~480VAC							40~440 VAC
VOLTAGE DROP	1.6V							
LEAKAGE CURRENT	< 3.0mA							
RESPONSE TIME	ON<20ms, OFF<20ms							
GENERAL								
INSULATION RESISTANCE	Min. 50MΩ (500VDC)							
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min							
AMBIENT TEMPERATURE	-20℃~+80℃							
AMBIENT HUMIDITY	45%~85%RH							
WEIGHT	Approx. 70g		Approx. 85g		Approx. 115g			Approx. 155g

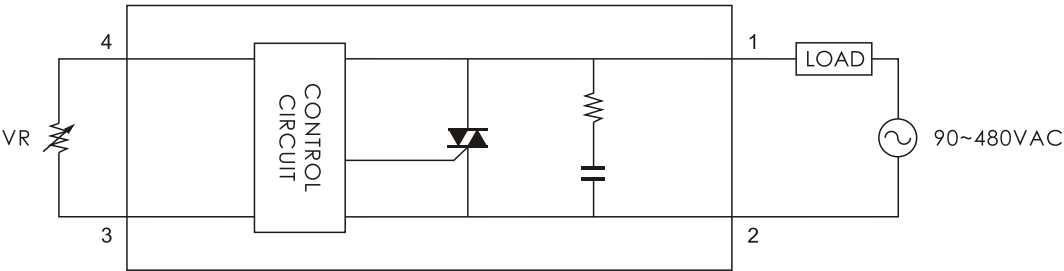
CONNECTION DIAGRAM



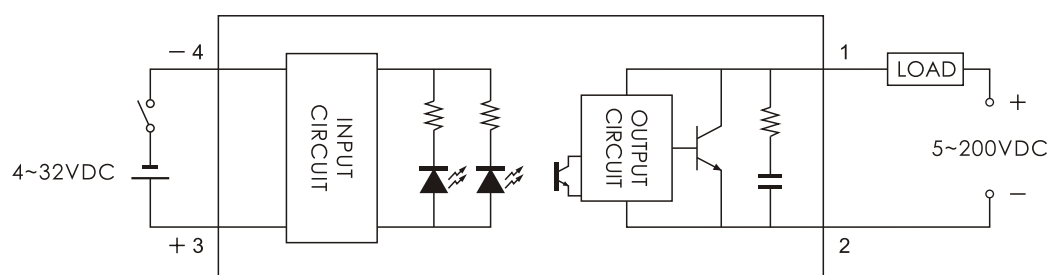
MODEL	STANDARD	SSR-10LA	SSR-15LA	SSR-25LA	SSR-40LA	SSR-50LA	SSR-80LA
	HIGH VOLTAGE	SSR-10LA-H	SSR-15LA-H	SSR-25LA-H	SSR-40LA-H	SSR-50LA-H	SSR-80LA-H
LOAD CURRENT		10A	15A	25A	40A	50A	80A
INPUT							
TRIGGER CURRENT		4~20mA					
CONTROL METHOD		Zero Cross Trigger					
OUTPUT							
OPERATING VOLTAGE		Standard : 90~250VAC High voltage : 250~480VAC					
VOLTAGE DROP		1.6V					
LEAKAGE CURRENT		Standard : < 3.0mA High voltage : < 5.0mA					
RESPONSE TIME		ON<10ms, OFF<10ms					
GENERAL							
INSULATION RESISTANCE		Min. 50MΩ (500VDC)					
DIELECTRIC STRENGTH		2500VAC 50/60 Hz for 1 min					
AMBIENT TEMPERATURE		-20℃~+80℃					
AMBIENT HUMIDITY		45%~85%RH					
WEIGHT		Approx. 70g		Approx. 85g		Approx. 115g	

CONNECTION DIAGRAM


MODEL	SSR-10VA	SSR-15VA	SSR-25VA	SSR-40VA	SSR-50VA	SSR-80VA	SSR-100VA
LOAD CURRENT	10A	15A	25A	40A	50A	80A	100A
INPUT							
VARIABLE RESISTANCE	Trimmer 80K Ω /110V, 150K Ω /220V, 250K Ω /380V, 300K Ω /480V						
CONTROL METHOD	Phase Control						
OUTPUT							
OPERATING VOLTAGE	90~480VAC						
VOLTAGE DROP	1.6V						
LEAKAGE CURRENT	< 5.0mA						
GENERAL							
INSULATION RESISTANCE	Min. 50M Ω (500VDC)						
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min						
AMBIENT TEMPERATURE	-20℃~+80℃						
AMBIENT HUMIDITY	45%~85%RH						
WEIGHT	Approx. 70g		Approx. 85g		Approx. 115g		
CONNECTION DIAGRAM							



MODEL	SSR-05DD	SSR-10DD	SSR-20DD
LOAD CURRENT	5A	10A	20A
INPUT			
OPERATING VOLTAGE	4~32VDC		
TRIGGER CURRENT	7.5mA/12VDC max		
CONTROL METHOD	Isolated by photocouple		
OUTPUT			
OPERATING VOLTAGE	5~200VDC		
VOLTAGE DROP	1.3V		
LEAKAGE CURRENT	< 0.8mA		
RESPONSE TIME	1ms<ON+OFF>		
GENERAL			
INSULATION RESISTANCE	Min. 50MΩ (500VDC)		
DIELECTRIC STRENGTH	2500VAC 50/60 Hz for 1 min		
AMBIENT TEMPERATURE	-20℃~+80℃		
AMBIENT HUMIDITY	45%~85%RH		
WEIGHT	Approx. 70g		

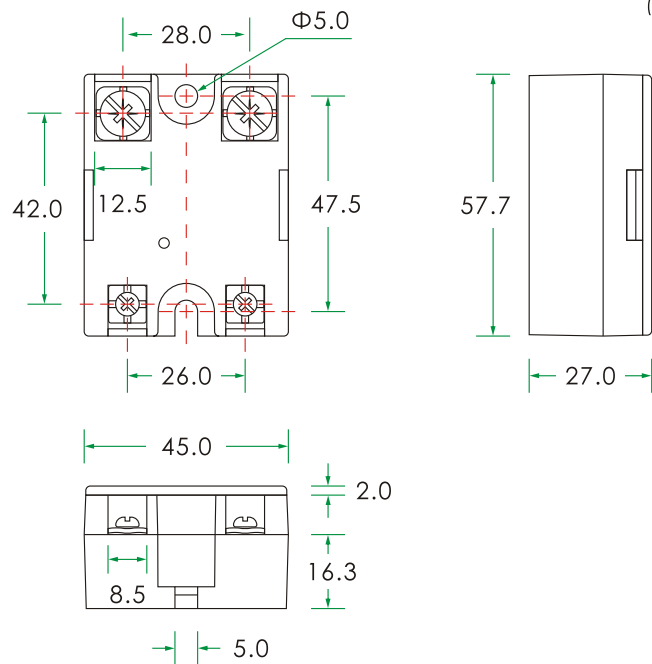
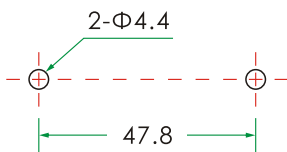
CONNECTION DIAGRAM


(Units : mm)

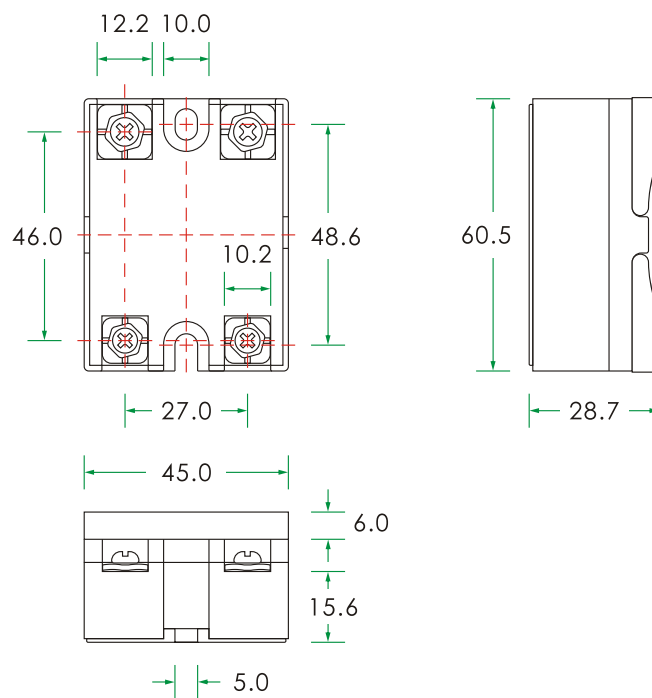
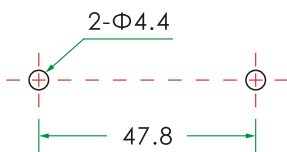
Dimensions



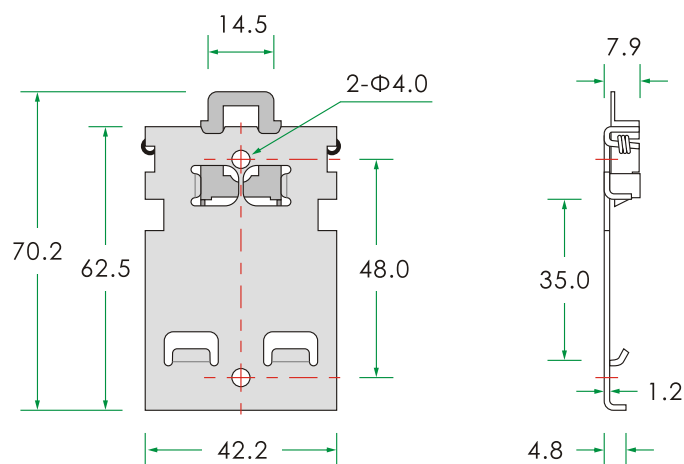
Mounting holes



Mounting holes

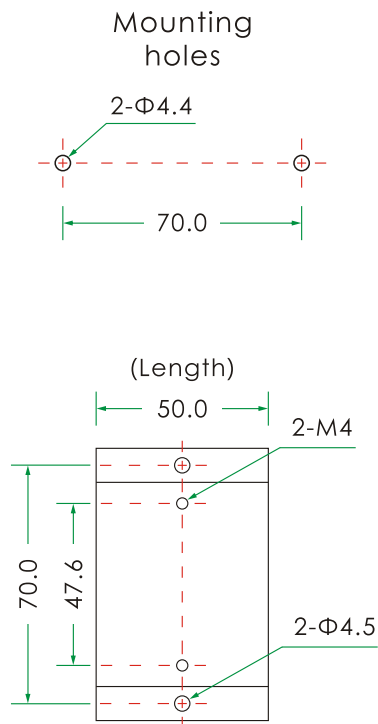
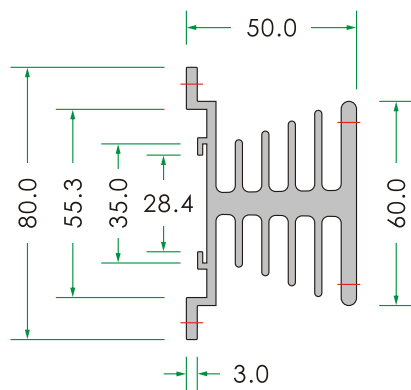
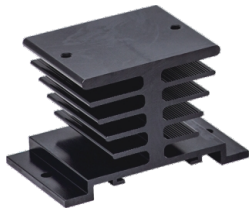


SSR-N

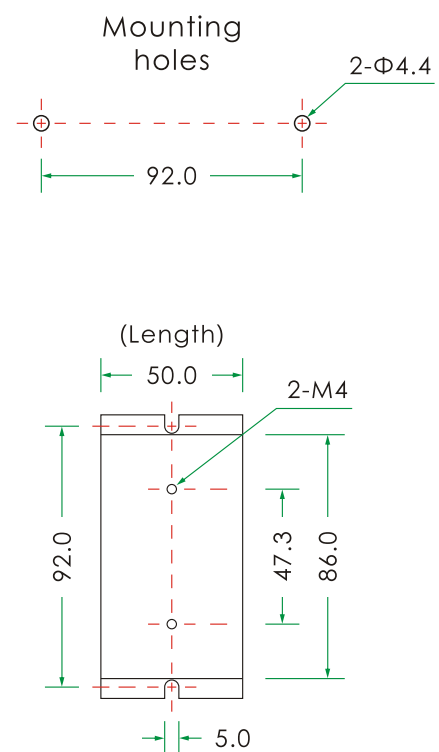
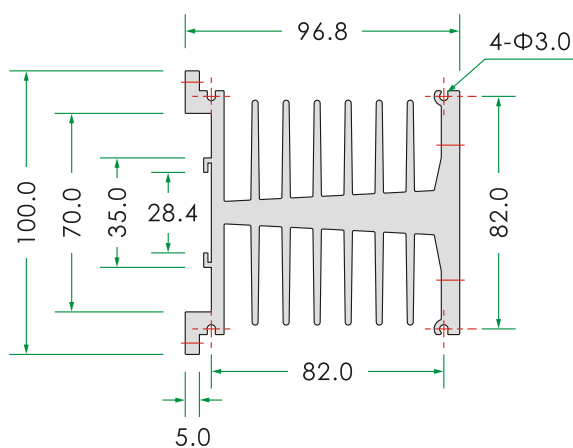


HS-1(Heat Sink)

(Units : mm)

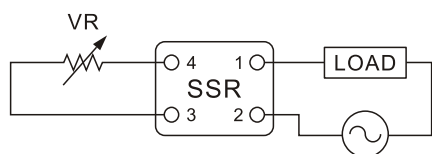


HS-2(Heat Sink)

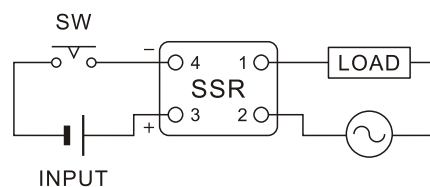
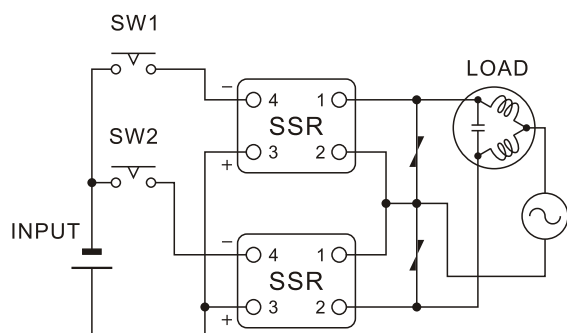
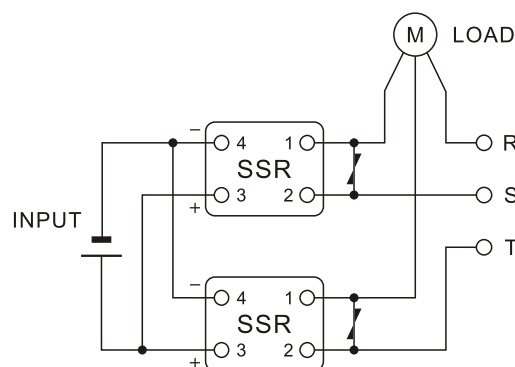


Application

Variable Phase Control

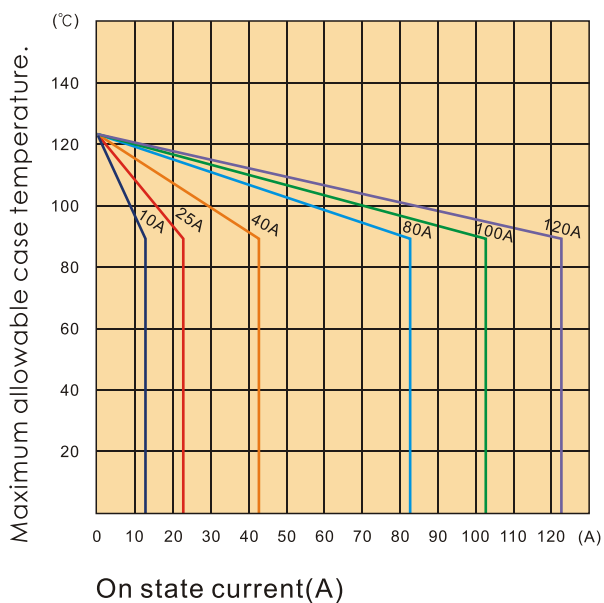


Switch control

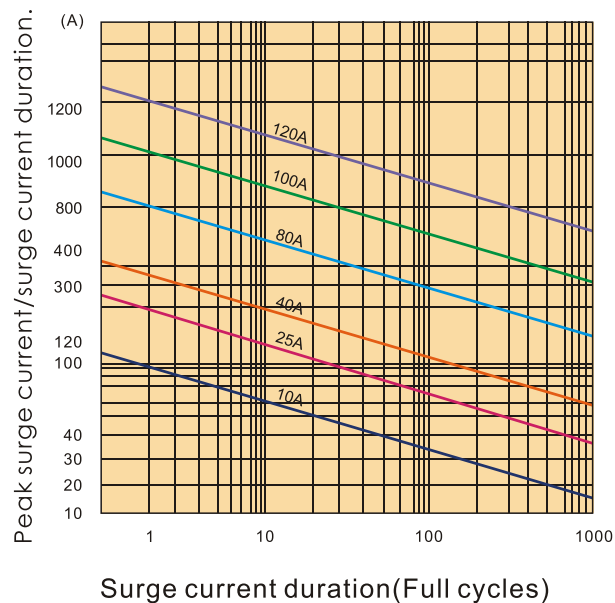
1 ϕ Motor FOR/REV Control3 ϕ Motor Control

Reference Data

Maximum allowable case temperature.



Peak surge current/surge current duration.

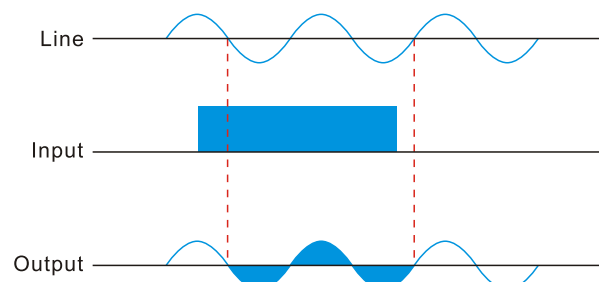


CHARACTERISTIC

Control Method

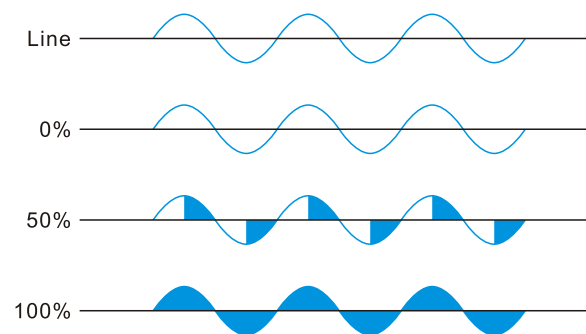
Zero Cross Trigger

Output will be turned ON or turned 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.



Variable Resistance Control (Trimmer Control)

Power output is controlled by the trigger
angle of TRIAC with variable resister
80K Ω /110VAC, 150K Ω /220VAC,
250K Ω /380VAC, 300K Ω /480VAC


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