

Sold state relay - SSR

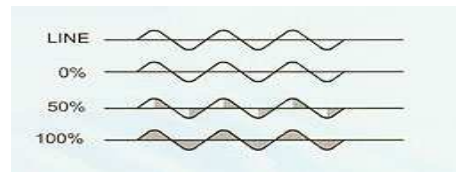
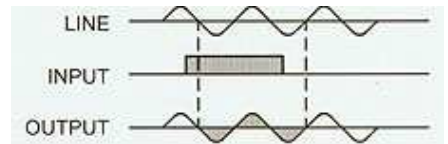
Features:

- Isolation over than 50MΩ / 500VDC, high dielectric over than 2.5KV;
- Low enable current less than 7.5mA / 12VDC;
- 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;



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.
- Variable Resistance Control Method < Trimmer Control Method > - power output is controlled by the trigger angle of triac with variable resistor 250KΩ/110VAC, 500KΩ /220VAC.



Technical specification :

DC/AC, 4÷20mA/AC Zero cross trigger method :

Type	SSR-10DA	SSR-25DA/ 25DA-H	SSR-40DA/ 40DA-H	SSR-50DA/ 50DA-H	SSR-75DA/ 75DA-H	SSR-40LA
Current [A]	10	25	40	50	75	40
Operating voltage	3÷32 Vdc					4÷20mA
Min. ON / OFF voltage	ON > 2.4V , OFF < 1.0V					
Trigger current	7.5mA / 12V					
Control method	Zero cross trigger method					
Load voltage	24 ~380VAC	24 ~380VAC and 90 ~480VCA only type with H				24 ~380VAC
Min. blocking voltage	600 VAC <Repetitive >					
Voltage drop	1.6V / 25°C					
Response time	ON < 10ms /OFF < 10ms			ON < 20ms / OFF < 20ms		ON < 10ms OFF < 10ms
Max. durate current	135A	275A	410A	550A	820A	41A
Leakage current max.	3.0mA	3.0/5.0mA	3.0/5.0mA	6.0mA	6.0mA	3.0mA
Dielectric strength	Over 2.5KVAC / 1min.					
Izolation strength	Over 50M Ω/ 500VDC					
Operating temperature	-20°C ~ + 80°C					
Case	Intensive BS					
Weight	155g			125g		125g

AC/AC, DC/DC Zero cross trigger method:

Type	SSR-10AA	SSR-25AA/ 25AA-H	SSR-40AA/ 40AA-H	SSR-05DD	SSR-10DD
Current [A]	10	25	40	5	10
Operating voltage	80~250VAC 50/60Hz			3÷32 Vdc	
Min. ON / OFF voltage	ON > 45V , OFF < 35V			ON > 2.4V , OFF < 1.0V	
Trigger current	5.0mA / 100V max			7.5mA / 12V	
Control method	Zero cross trigger method			Photocouple	
Load voltage	24 ~380VAC	24 ~380VAC / 90 ~480VCA		5 ~60 VAC	
Min. blocking voltage	600 VAC <Repetitive >			300 VDC	
Voltage drop	1.6V / 25°C				
Response time	ON < 20ms /OFF < 20ms			ON >1ms / OFF >10ms	
Max. durate current	135A	275A	410A	15A	30A
Leakage current max.	3.0mA	5.0mA	3.0/5.0mA	< 0.8mA	
Dielectric strength	Over 2.5KVAC / 1min.				
Izolation strength	Over 50M Ω/ 500VDC				
Operating temperature	-20°C ~ + 80°C				
Case	Intensive ABS				
Weight	110g			105g	

Variable resistance control method :

Type	SSR-10VA	SSR-25VA	SSR-40VA
Current [A]	10	25	40
Variable resistance	250K Ω /110VAC, 500K Ω /220VAC, M Ω /380VAC		
Control method	Phase control		
Load voltage	24 ~380VAC		
Min. blocking voltage	600 VAC < Repetitive >		
Voltage drop	1.6V / 25 $^{\circ}$ C		
Response time	ON < 20ms /OFF < 20ms		
Max. durate current	135A	275A	410A
Leakage current max.	5.0mA	5.0mA	5.0mA
Dielectric strength	Over 2.5KVAC / 1min.		
Izolation strength	Over 50M Ω / 500VDC		
Operating temperature	-20 $^{\circ}$ C ~ + 80 $^{\circ}$ C		
Case	Intensive ABS		
Weight	105g		

Order code : **SSR-40DA-H**
 1 2 3 4 5

Type	SSR	24 x 48 mm	
Current	5	5 A	Only voltage DC output
	10	10 A	
	25	25 A	
	40	40 A	Only voltage AC output
	50	50 A	
	75	75 A	
Control method	D	3 \div 32 Vdc (ON / OFF)	
	A	80 \div 250 Vac (ON / OFF)	
	L	4 \div 20mA (linear)	
	V	Variable resistance	
Load voltage	D	V dc	
	A	V ac	
Range load voltage			Standard 24 \div 380 V ac
	H		90 \div 480 V ac

Connection diagram and dimension (mm) :

