

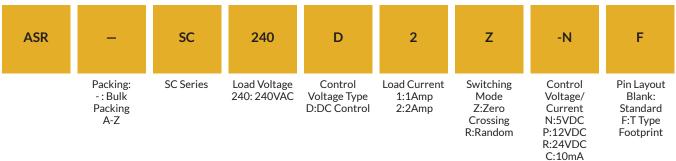


- Opto-isolation
- Load Current:0.1A-2A @24-280VAC
- Control Current :10mA or Control Voltage:5VDC,12VDC,24VDC
- Dielectric Strength:2500VACrms
- TRIAC Output
- PCB Mounted
- RoHS Compliant

Product Description

ASR-SC series is printed board mounted solid state relay. Control current is 10mA or control voltage is 5VDC, 12VDC or 24VDC, load voltage is 240VAC. Optoisolation between input and output, zero crossing and random-on output mode available.

Product Selection



INPUT CIRCUIT			
Control Voltage Range	5	4~6VDC	
	12	9.6~14.4VDC	
	24	19.2~28.8VDC	
Must Turn-on Voltage	5	4VDC	
	12	9.6VDC	
	24	19.2VDC	
Must Turn-off Voltage	5/12/24	1.0VDC	
Maximum Input Current	5/12/24	25mA (@max. input Voltage)	

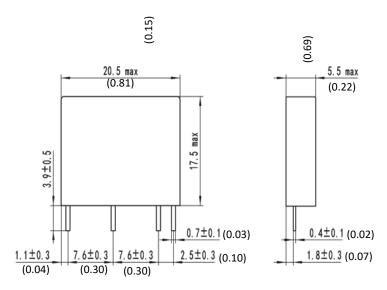
OUTPUT CIRCUIT		
Load Voltage Range		24~280VAC
Transient Overvoltage		600Vpk
Maximum Surge Current [@10 ms]	1A	25Apk
	2A	35Apk
Maximum Turn-on Time	Random-On	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
Load Current Range	1A	0.1~1A
	2A	0.1~2A
Maximum Off-state Leakage Current [@ Rated Voltage]		0.1~2A
Maximum On-state Voltage Drop [@ Rated Current]		1.5Vrms
Minimum Off-state dv/dt [@ Maximum Rated Voltage]		200V/µs
Operational Frequency Range		47-63Hz
Minimum Power Factor (@ Maximum load)		0.5
GENERAL INFORMATION		
Dielectric Strength, Input/Output[50/60Hz]		2500VACrms
Insulation Resistance		1000MΩ(@500VDC)
Ambient Operating Temperature Range		-30°C +80°C
Weight [Typical]		3g



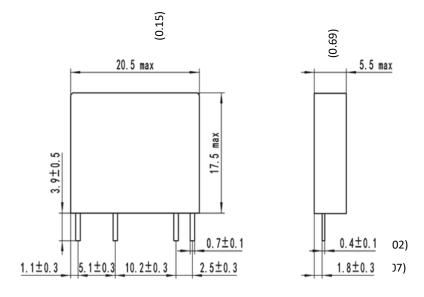
Application Note:

Suitable for pumps, valve control, motor control and etc.

A) Standard Footprint

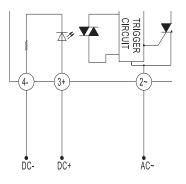


B) T Type Footprint

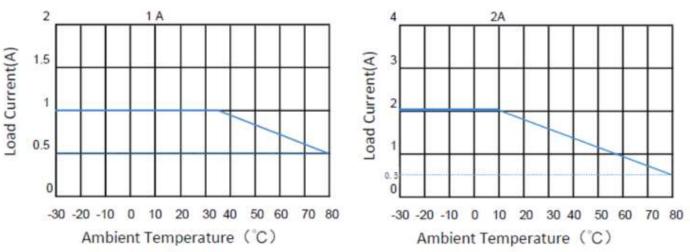




Wiring Diagram



Thermal Curve



Important Notice

- 1. Soldering must be finished within 10 seconds at 260°C, or finished within 5 seconds at 350°C. Otherwise it may cause damage to the relay.
- 2. Terminal polarity must be observed. Otherwise it may cause damage to the relay.
- 3. When ambient temperature is above 25°C, the maximum load current decreases. See thermal derating curve.

Product Certification



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