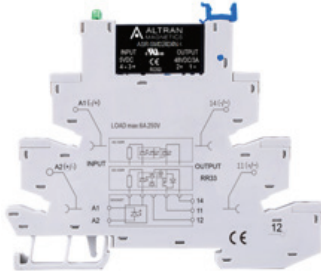


# Solid State Relay

## SMA Series Single Phase AC Output



- Optoelectronic Isolation
- TRIAC Output
- Load Voltage:240VAC
- Load Current:1A,2A
- Dielectric Strength 2500VACrms
- PCB Mounted
- RoHS Compliant

ASR	—	SM	A	240	D	1	R	N	-K
	Packing - : Bulk pack A-Z	SM Series	Load Type A:AC Load	Load Voltage 240:240VAC	DC Control	Load Current 1: 1Amp 2: 2Amp	Switching Mode Z:Zero Crossing R:Random-on	Control Voltage N: 5VDC P: 12VDC R: 24VDC S: 48VDC T: 60VDC	None: No Socket K: with Socket

### Technical Specification

INPUT CIRCUIT(TA=25°C)		
Control Voltage Range	N	4-6VDC
	P	9.6-14.4VDC
	R	19.2-28.8VDC
	S	38.4-57.6VDC
	T	48-72VDC
Must Turn-on Voltage <sup>(1)</sup>	N	4VDC
	P	9.6VDC
	R	19.2VDC
	S	38.4VDC
	T	48VDC
Must Turn-off Voltage		1VDC
Maximum Input Current		25mA

# Solid State Relay

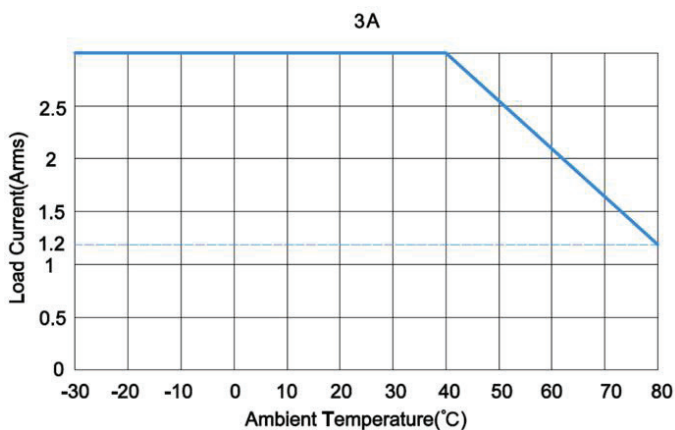
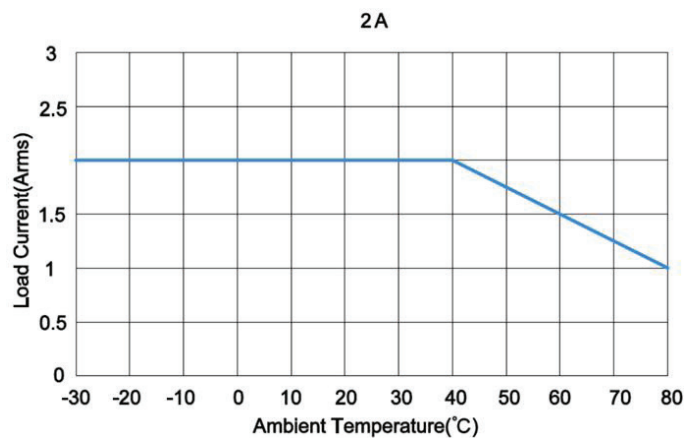
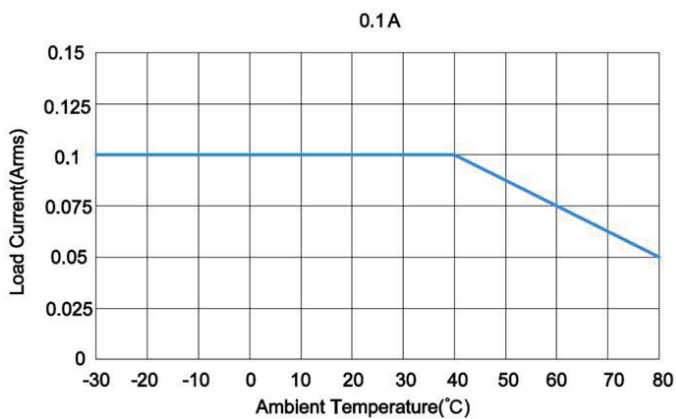
## SMA Series Single Phase AC Output

OUTPUT CIRCUIT(TA=25°C)		
Load Voltage Range (47Hz-63Hz)		24-280VAC
Maximum Transient Overvoltage		600Vpk
Load Current Range	1A	0.1 - 1A
	2A	0.1 - 2A
Maximum Turn-On Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-Off Time		300µs
Maximum Surge Current [@10 ms]	1A	30A
	2A	40A
Maximum Off-State Leakage Current [@ Rated Voltage]		1.5mA
Maximum On-State Voltage Drop [@ Rated Current]		1.5Vrms
Maximum On-State Voltage Drop [@ Rated Current]		200V/µs
GENERAL INFORMATION (TA=25°C)		
Dielectric Strength, Input/Output(50/60Hz)		2500Vrms
Insulation Resistance(@500VDC)		1000MΩ
Ambient Operating Temperature Range		-30°C +80°C
Ambient Storage Temperature Range		-30°C +100°C
Weight (Typical)	ASR-SM240...-...Series	4g
	ASR-SM240...-...K Series	30g



# Solid State Relay

## SMA Series Single Phase AC Output



### Attentions:

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. When connecting wiring to SSR please ensure screws are torqued down properly 4.43 in-lb, 0.5 N·m3.
3. When ambient temperature is above 25°C or tight installation required, the maximum load current decreases. See thermal derating curve.
2. Terminal polarity must be observed. Otherwise it may cause damage to the relay.

### Product Certification



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