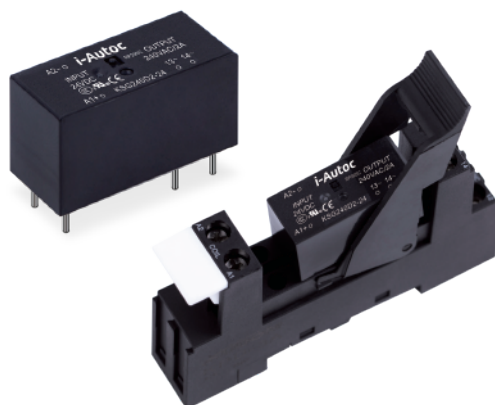


Product Description

- ◆ Zero crossing or Random-on Switching
- ◆ Control Voltage: 5VDC, 12VDC, 24VDC
- ◆ Load Current: 2A, 3A
- ◆ Dielectric Strength: 4000Vrms
- ◆ Built-in RC Subber Circuit
- ◆ TRIAC Output
- ◆ PCB Mounted
- ◆ RoHS Compliant
- ◆ Din-rail Mount Socket Available



Product Selection

KSG	240	D	2	R	-5	D	(XXX)
KSG Series	Load Voltage 240: 240VAC 380: 380VAC	DC Control	Load Current 2: 2Amp 3: 3Amp	Switching Mode Blank: Zero Crossing R: Random-on	Control Mode 5: 5VDC 12: 12VDC 24: 24VDC	Blank: without socket D: with socket	Customized Code

Available Part Numbers

Control Mode	Part Numbers			
	2A		3A	
5VDC	KSG240D2-5(D)	KSG240D2R-5(D)	KSG240D3-5(D)	KSG240D3R-5(D)
	KSG380D2-5(D)	KSG380D2R-5(D)	KSG380D3-5(D)	KSG380D3R-5(D)
12VDC	KSG240D2-12(D)	KSG240D2R-12(D)	KSG240D3-12(D)	KSG240D3R-12(D)
	KSG380D2-12(D)	KSG380D2R-12(D)	KSG380D3-12(D)	KSG380D3R-12(D)
24VDC	KSG240D2-24(D)	KSG240D2R-24(D)	KSG240D3-24(D)	KSG240D3R-24(D)
	KSG380D2-24(D)	KSG380D2R-24(D)	KSG380D3-24(D)	KSG380D3R-24(D)

Technical Specifications

Input Specifications (Ta=25°C)		
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		1VDC
Maximum Input Current	5	25mA (@6VDC)
	12	25mA (@14.4VDC)
	24	25mA (@28.8VDC)

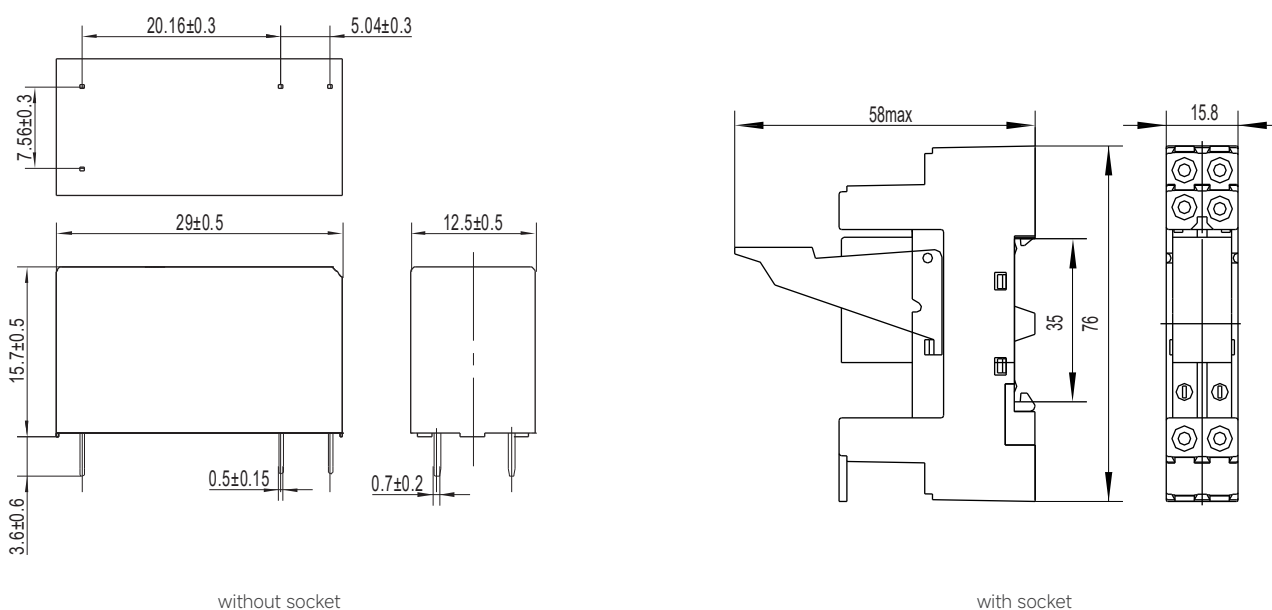
Output Specifications (Ta=25°C)		
Load Voltage Range	240VAC	24~280VAC
	380VAC	24~440VAC
Maximum Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
Load Current Range	2A	0.1~2A
	3A	0.1~3A
Maximum Surge Current (@10ms)	2A	80Apk
	3A	120Apk
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	1/2cycle+1ms
Maximum Turn-off Time		1/2cycle+1ms
Maximum Off-State Leakage Current (@Rated Load Voltage)		5mA
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		0.5

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
Minimum Insulation Resistance (@500VDC)		1000mΩ
Ambient Temperature Range		-30°C ~ +80°C
Storage Temperature Range		-30°C ~ +100°C
Weight (Typical)	without Socket	15g
	with Socket	50g

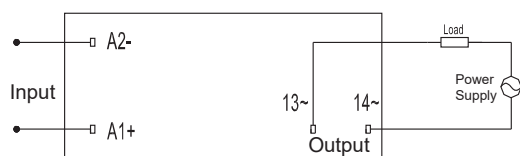
Applications

Suitable for small power industrial applications, such as valve or motor control.

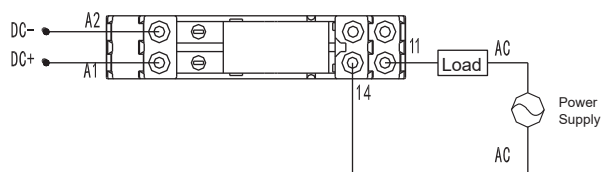
Outline Dimensions



Wiring Diagram

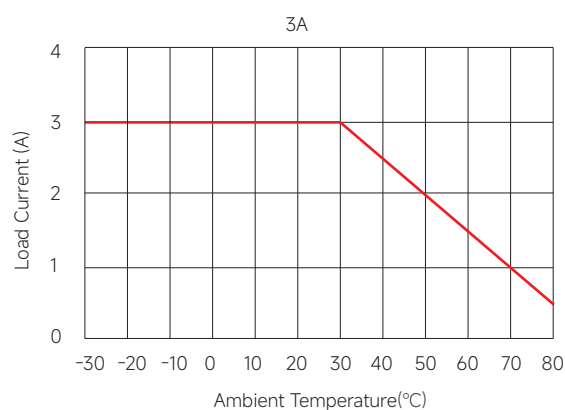
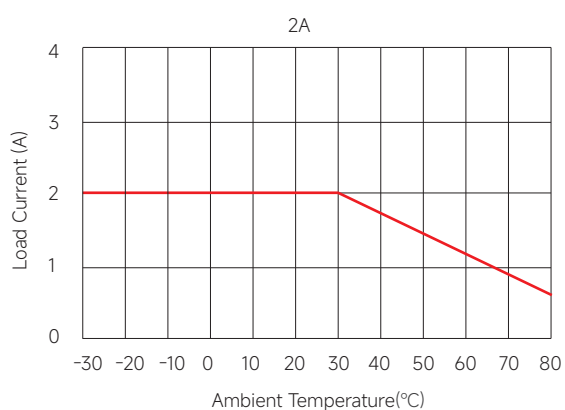


without socket



with socket

Thermal Derating Curve



General Notes

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.
4. For products with a socket, the recommended installation torque for wiring is $(0.8 \sim 1.2) \text{ N} \cdot \text{m}$.



Warnings

1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.

Certification Standards

Certification	Test Standard
UL	UL508
CE	IEC EN60947
CCC	GB/T14048.5-2017