

Solid State Relay

KSG Series Single Phase AC Output

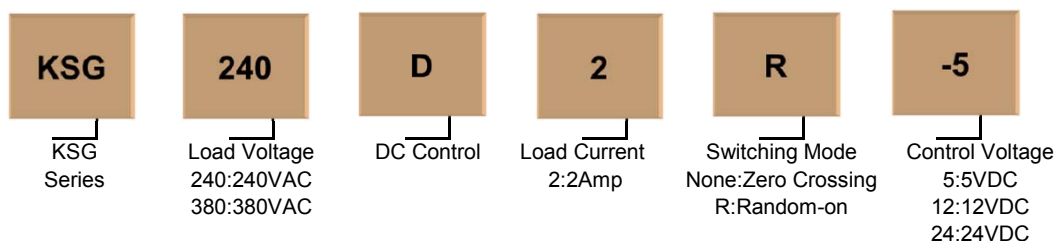


- Zero crossing switching or random-on
- Ratings from: 2A @48-440VAC
- Control voltage:5VDC, 12VDC,24VDC
- Dielectric strength \geq 2500VACrms
- High EMC ability
- RoHS compliant
- Internal RC protection circuit

Product Description

KSG series is printed board mounted solid state relay. Load current is 2A,including zero crossing and random-on switching control. Control voltage is 5VDC, 12VDC, 24VDC. Isolation voltage is 2500VACrms.High EMC and high inrush current capability.Suitable for important industrial applications such as valves control and motor control.

Product Selection



Control Voltage	240	380
5	KSG240D2-5	KSG380D2-5
	KSG240D2R-5	KSG380D2R-5
12	KSG240D2-12	KSG380D2-12
	KSG240D2R-12	KSG380D2R-12
24	KSG240D2-24	KSG380D2-24
	KSG240D2R-24	KSG380D2R-24

Technical Specification

Input Circuit

Control Voltage Range	5	4-6VDC
	12	9.6-14.4VDC
	24	19.2-28.8VDC
Minimum Turn-On Voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
Minimum Turn-Off Voltage	5	1VDC
	12	2.4VDC
	24	4.8VDC
Maximum Input Current		20mA

Output Circuit

Load Voltage Range	240VAC	48-280VAC
	380VAC	48-440VAC
Load Current Range	2A	0.1-2A
Maximum Turn-On Time	Random-On	1mS
	Zero Crossing	1/2AC Cycle + 1ms
Maximum Turn-Off Time		1/2AC Cycle + 1ms
Maximum Surge Current [@10 ms]	2A	20A
Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
Maximum Off-State Leakage Current [@ Rated Voltage]		1mA
Maximum On-State Voltage Drop [@ Rated Current]		1.5Vrms
Minimum Off-State dv/dt[@ Maximum Rated Voltage]		200V/μs

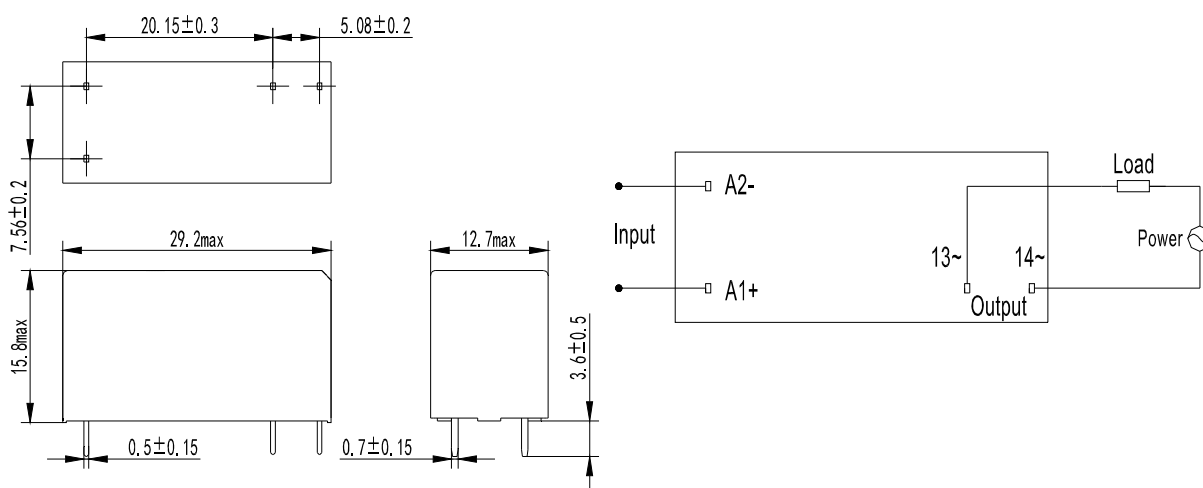
General Information

Dielectric Strength, Input/Output (50/60Hz)	$\geq 2500V_{rms}$
Insulation Resistance	1000MΩ@500VDC
Ambient Operating Temperature Range	-30°C ~ +80°C
Ambient Storage Temperature Range	-30°C ~ +100°C
Weight (typical)	15g

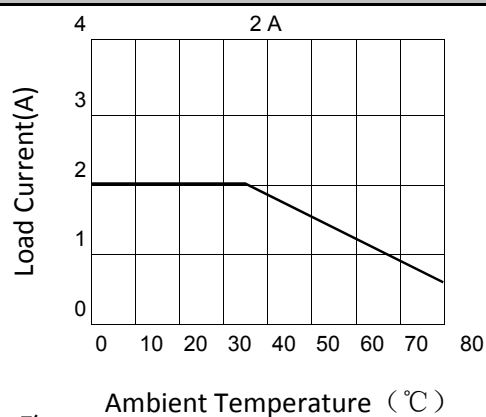
Application

Suitable for motor and valve control.

Installation



Thermal Curve



Important Notice

1. Soldering must be finished within 10 seconds at 250°C, and finished within 5 seconds at 350°C.
2. Terminal polarity to ensure proper control, or may damage the product.
3. When the ambient temperature is over 40°C, load current performance will decline.

Product Certification

