Product Description

- Zero-crossing or Random-on Switching
- Rated Load Current: 25A
- SCR Output
- Photoelectric Isolation
- Dielectric strength: ≥4000Vrms
- Built-in RC Snubber Circuit and TVS Optional
- RoHS Compliant

Product Selection

KSH	240	D	25	R	N	-T	(XXX)
KSH Series	Load Voltage 240: 240VAC 480: 480VAC 600: 600VAC	DC Control	Load Current 25: 25Amp	Switching Mode Blank: Zero Crossing R: Random-on	None: With RC N: Without RC	None: Without TVS T: With TVS(1)	Customized Code

Available Part Numbers

Load Current	Part Numbers			
240VAC	KSH240D25	KSH240D25N	KSH240D25-T	KSH240D25N-T
	KSH240D25R	KSH240D25RN	KSH240D25R-T	KSH240D25RN-T
480VAC	KSH480D25	KSH480D25N	KSH480D25-T	KSH480D25N-T
	KSH480D25R	KSH480D25RN	KSH480D25R-T	KSH480D25RN-T
600VAC	KSH600D25	KSH600D25N	KSH600D25-T	KSH600D25N-T
	KSH600D25R	KSH600D25RN	KSH600D25R-T	KSH600D25RN-T

Note:(1) TVS option is not available for 600V version.

Technical Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range		4~32VDC
Must Turn-on Voltage		4VDC
Must Turn-off Voltage		1VDC
Maximum Input Current	Random-on	25mA@32VDC
	Zero Crossing	18mA@32VDC

Output Specifications (Ta=25°C)		
Load Voltage Range	240VAC	24~280VAC
	480VAC	24~530VAC
	600VAC	24~660VAC
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	1/2cycle+1ms
Maximum Turn-off Time		1/2cycle+1ms
Maximum Surge Current (@10ms)		250A

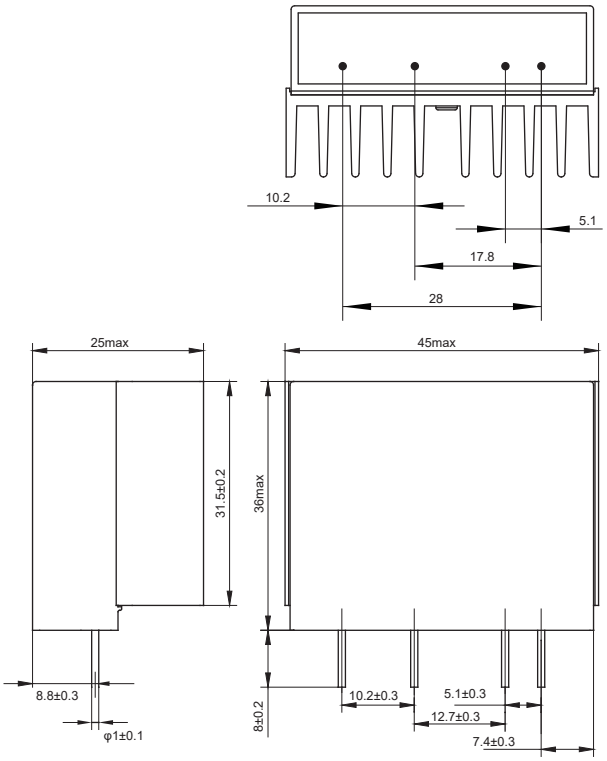
Output Specifications (Ta=25°C)		
Maximum I^2t for Fusing (@10ms)		312A^2s
Transient Overvoltage	240VAC	600Vpk
	480VAC/600VAC	1200Vpk
Maximum Off-State Leakage Current (@Rated Voltage)		5mA
Maximum On-State Voltage Drop (@Rated Current)		1.5Vrms
Minimum Off-State (dv/dt @Maximum Rated Voltage)		500 V/μs

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input,Output/Base	2500Vrms
Power Factor		>0.5
Ambient Temperature Range		-30°C ~ +80°C
Storage Temperature Range		-30°C ~ +100°C
Weight (Typical)		50g

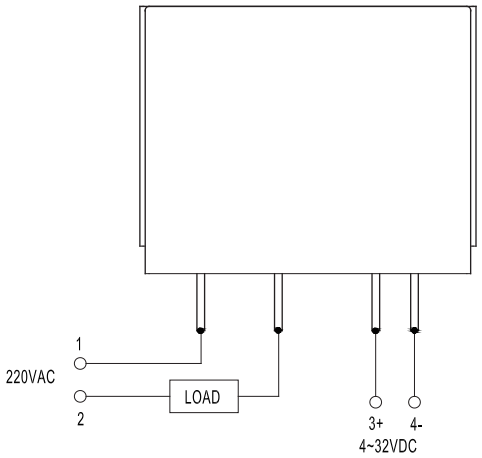
Applications

Suitable for various applications, such as lighting control, medical equipments, elevator, etc.

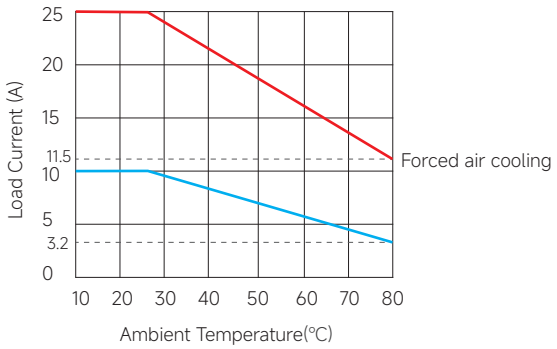
Outline Dimensions



Wiring Diagram



Thermal Derating Curve



Note: the temperature of forced cool air cooling fin shall not exceed 85℃

General Notes

1. When ambient temperature is above 25℃ or when solid state relays are installed together, the maximum load current decreases. See thermal derating curve.

! 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