

Product Description

Zero-crossing or Random-on Switching
 Rated Load Current: 25A @ 24-660VAC
 DC Input
 SCR Output
 Photoelectric Isolation ≥ 4000VACrms
 Built-in RC Snubber Circuit and TVS Optional
 RoHS Compliant



Ordering Information

KSH	240	D	25	R	N	-T	(XXX)
KSH Series ⁽¹⁾	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	T:TVS ⁽²⁾ (Optional)	Customized Code

⁽¹⁾ Part numbers available are listed in the table below.

240	KSH240D25
	KSH240D25N
	KSH240D25-T
	KSH240D25N-T
	KSH240D25R
	KSH240D25RN
	KSH240D25R-T
	KSH240D25RN-T
480	KSH480D25
	KSH480D25N
	KSH480D25-T
	KSH480D25N-T
	KSH480D25R
	KSH480D25RN
	KSH480D25R-T
	KSH480D25RN-T
600	KSH600D25
	KSH600D25N
	KSH600D25R
	KSH600D25RN

⁽²⁾ TVS option is not available for 600V version.

General Specifications

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

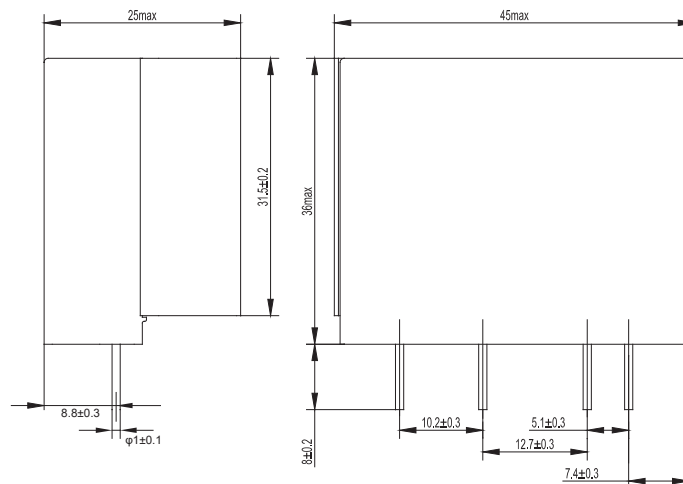
Output Specifications (Ta=25°C)			
Load Voltage Range	240VAC	12-280VAC	
	480VAC	24-530VAC	
	600VAC	24-660VAC	
Maximum Turn-on Time	Random-on	1ms	
	Zero Crossing	10ms	
Maximum Turn-off Time	10ms		
Maximum Surge Current[@10ms]	250A		
Transient Overvoltage	240VAC	600Vpk	
	480VAC/600VAC	1200Vpk	
Maximum 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	

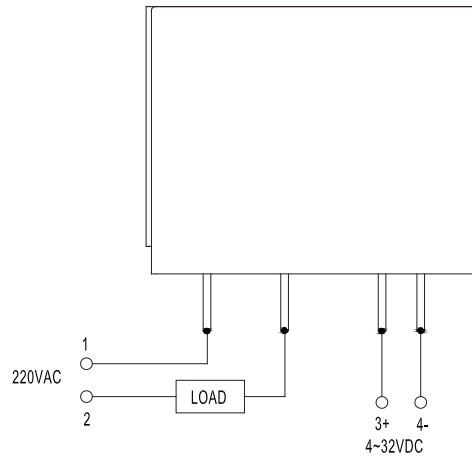
Applications

Lighting control, medical equipment, elevator, electric control door.

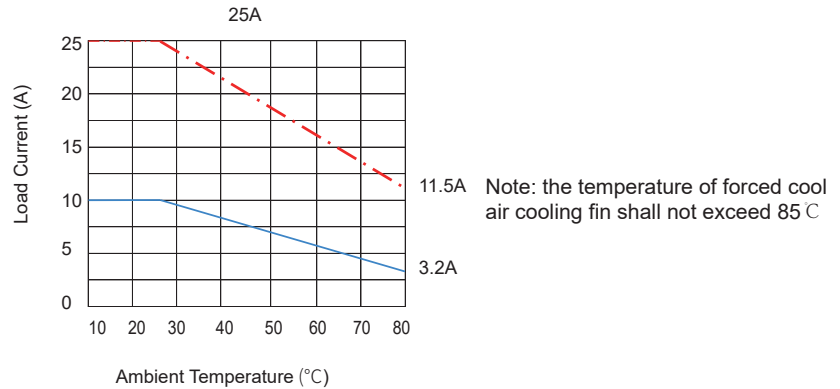
Outline Dimensions



Wiring Diagram



Thermal Derating Curve



General Note

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.

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	C22.2 No. 14-13