

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

Table with 8 columns: KSH, 240, D, 25, R, N, -T, (XXX). Each column contains a description of the code segment, such as 'KSH Series', 'Load Voltage', 'DC Control', 'Load Current', 'Switching Mode', 'None:With RC', 'T:TVS', and 'Customized Code'.

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

Table with 2 columns: Load Voltage (240, 480, 600) and Part Number. It lists various model numbers for each voltage rating, such as KSH240D25, KSH480D25, and KSH600D25.

(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
Maximum I²t For Fusing [@10ms]			312A²s
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

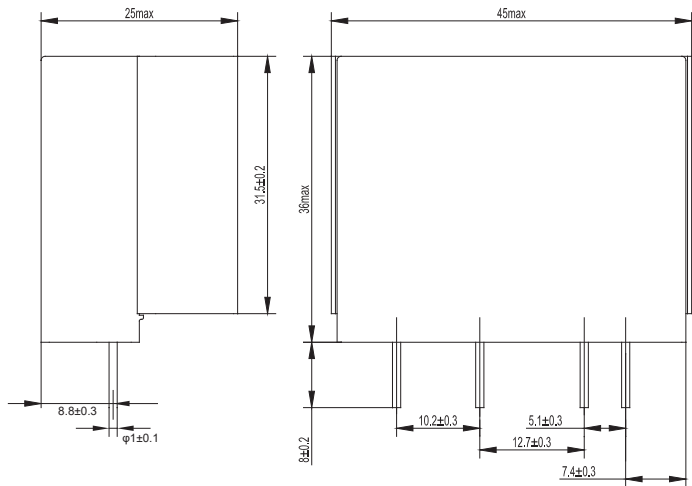
General Specifications (Ta=25°C)

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

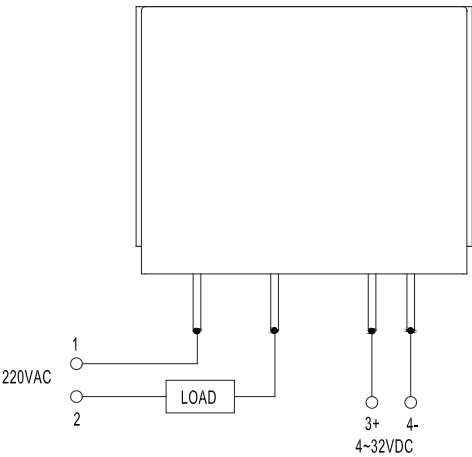
Applications

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

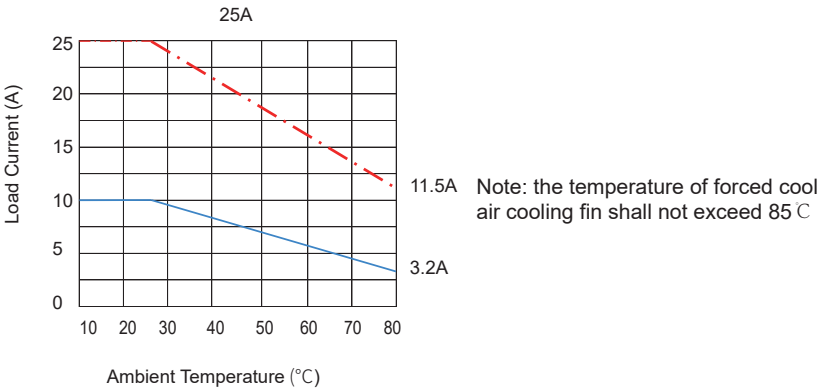
Outline Dimensions



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