

Solid State Relay

KSH Series Single Phase AC Output

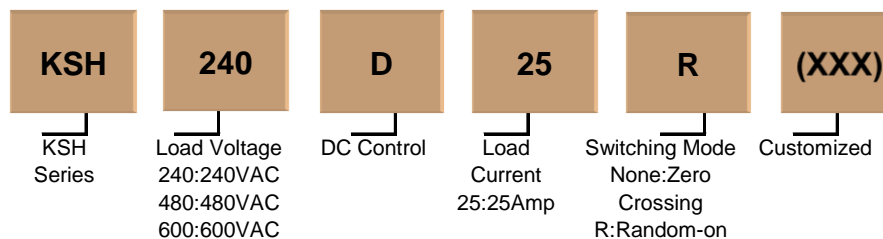


- Zero-crossing or Random-on Switching
- Rated Load Current: 25A @ 24-660VAC
- DC Input
- Opto-isolation: $\geq 4000\text{VACrms}$
- SCR Output
- Internal RC Protection Circuit
- RoHS Compliant

Product Description

KSH series industrial single phase relay with SCR output is widely used in industry applications, PCB mounted. The relay can be used for resistive, inductive or capacitive load. The control voltage is 4-32VDC, the load voltage is 240VAC、480VAC and 600VAC, output current is rated at 25A.

Product Selection



Technical Specification

Input Circuit

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 Circuit

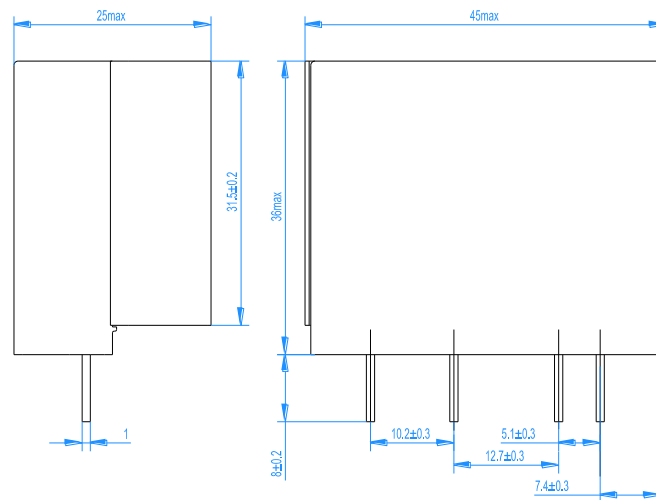
Load Voltage	240VAC	24-280VAC
	480VAC	24-530VAC
	600VAC	24-660VAC
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
Maximum Surge Current [@10ms]		250A
Transient Overvoltage	240VAC	600Vpk
	480VAC	1200Vpk
	600VAC	1600Vpk
Maximum Off-State Leakage Current [@ Rated Voltage]		5mA

Maximum On-State Voltage Drop [@ Rated Current]	1.5Vrms	
Minimum Off-State dv/dt [@ Maximum Rated Voltage]	500 V/ μ s	
General Information		
Dielectric Strength, [50/60Hz]	Input/Output	≥ 4000 Vrms
	Input, Output/Base	≥ 2500 Vrms
Power Factor	>0.5	
Ambient Operating Temperature Range	$-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$	
Ambient Storage Temperature Range	$-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$	
Weight [Typical]	50g	

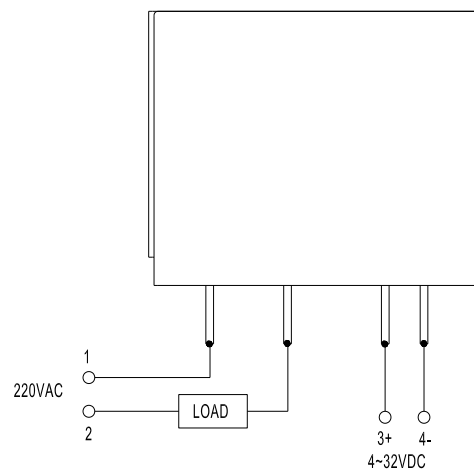
Application

Lighting control, Medical equipment, Elevator, Electric control door.

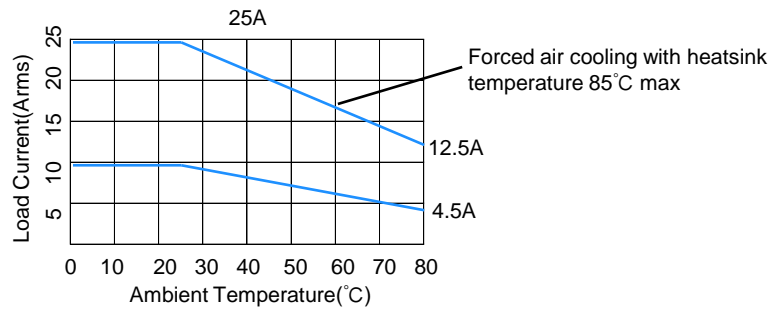
Installation



Wiring Diagram



Thermal Curve



Important Notice

1. When the ambient temperature is over 25°C or many KSH series are installed closely together, the user should take load discount into account according to the thermal curve.

Product Certification

