

## Solid State Relay

### KSIM Series Single Phase AC Output

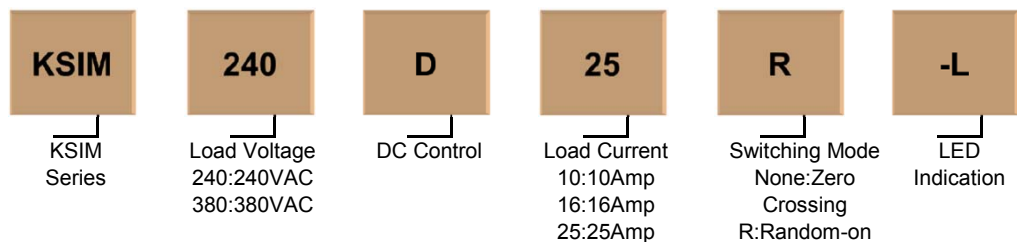


- Zero crossing or random-on
- Ratings from 10A, 16A, 25A @24-440VAC
- Triac output for heavy industrial loads
- Opto-isolation:  $\geq 4000\text{VACrms}$
- Internal RC protection circuit
- With LED indication

#### Product Description

KSIM series industrial single phase relay with triac output is the most widely used in industry application. The relay can be used for resistive, inductive and capacitive loads. The control voltage is 4-32VDC, output current rate with 10A, 16A, 25A.

#### Product Selection



Description	10A	16A	25A
D:4-32VDC	KSIM240D10	KSIM240D16	KSIM240D25
	KSIM240D10R	KSIM240D16R	KSIM240D25R
	KSIM380D10	KSIM380D16	KSIM380D25
	KSIM380D10R	KSIM380D16R	KSIM380D25R

#### Technical Specification

##### Input Circuit

Control Voltage Range	4-32VDC
Minimum Turn-On Voltage	4VDC
Minimum Turn-Off Voltage	1VDC
Maximum Input Current	25mA

##### Output Circuit

Load Voltage	240	48-280VAC
	380	48-440VAC
Maximum Turn-On Time	Random-On	100 $\mu$ s
	Zero Crossing	1/2AC Cycle + 1ms
Maximum Turn-Off Time		1/2AC Cycle + 1ms

Maximum Surge Current [@10ms]	10A	100A
	16A	160A
	25A	250A
Transient Overvoltage	240	600Vpk
	380	800Vpk
Maximum Off-State Leakage Current [@ Rated Voltage]		5mA
Maximum On-State Voltage Drop [@ Rated Current]		1.6Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		500 V/ $\mu$ s

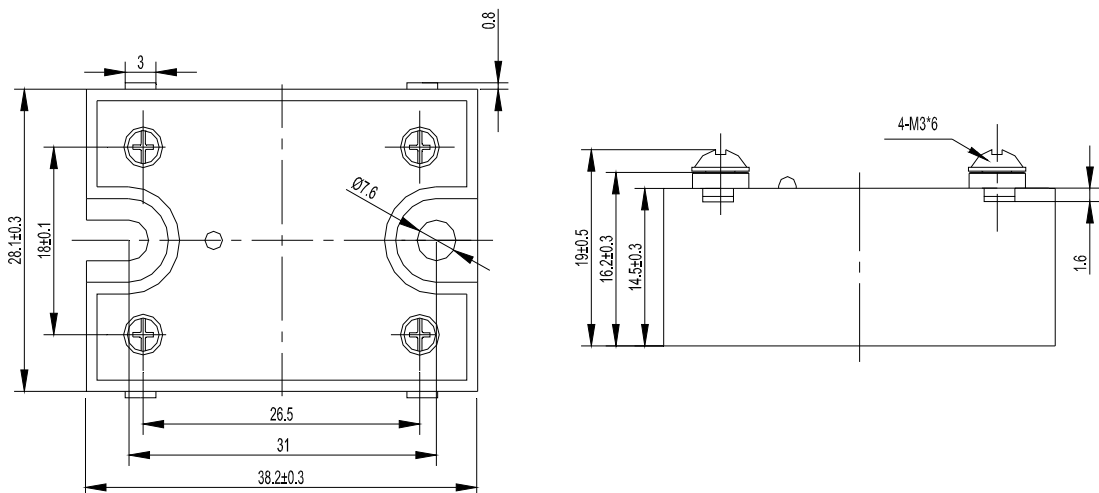
### General Information

Dielectric Strength, Input/Output/Base[50/60Hz]	$\geq 4000\text{Vrms} / 2500\text{Vrms}$
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]	33g

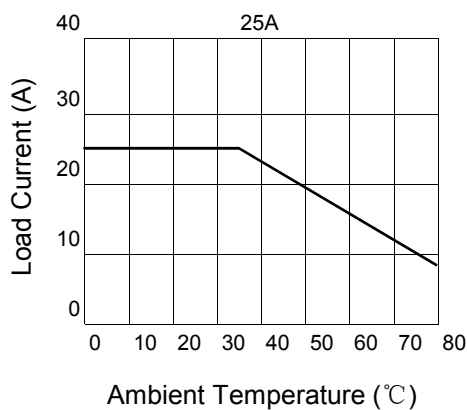
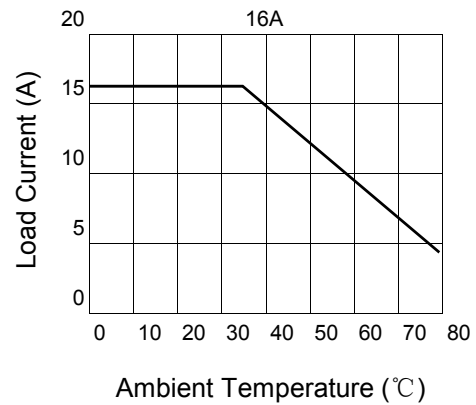
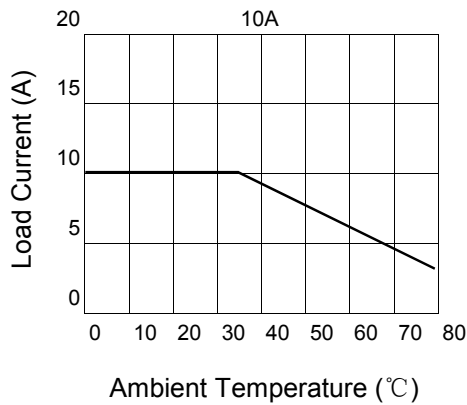
### Application

High-low Temperature Chamber, Plastics Machinery, Incubation Machine, Oiling Machine, HVAC, Elevator, Lighting, Fountain Controller.

### Installation



## Thermal Curve



## Important Notice

1. When the ambient temperature is over 40°C or many KSIM series are installed closely together, the user should take load discount into account according to the thermal curve.
2. If the load current is over 10A, suitable heatsink should be added to the SSR.

## Product Certification

