Product Description

- Zero-crossing or Random-on Switching
- TRIAC Output
- DC Input
- Dielectric Strength: 4000Vrms
- Load Current: 10A, 16A, 25A
- Internal RC/MOV Protection Circuit
- LED Indicator
- RoHS Compliant



Ordering Information

KSIM	240	D	25	R	-L	M	(XXX)
KSIM Series	Load Voltage 240: 24-280VAC 380: 24-440VAC	Control Mode D: DC Control	Load Current 10: 10Amp 16: 16Amp 25: 25Amp	Switching Mode Blank: Zero Crossing R: Random-on	LED Indicator	M: MOV Protection (Optional)	Customized Code 045: Quick Connection 117: Quick Connection

General Specifications

Input Specifications (Ta=25℃)	
Control Voltage Range	4-32VDC
Must Turn-On Voltage	4VDC
Must Turn-Off Voltage	1VDC
Maximum Input Current	25mA

Output Specifications (Ta=25℃)		
Load Voltage Range	240VAC	24-280VAC
	380VAC	24-440VAC
Maximum 1 Cycle Surge Current (50Hz)	10A	120A
	16A	160A
	25A	250A
Maximum Turn-On Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-Off Time	10ms	

Output Specifications (Ta=25℃)		
Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
Maximum Off-State Leakage Current@Rated Load Voltage	5mA	
Maximum On-State Voltage Drop@Rated Current	1.5Vrms	
Minimum Off-State dv/dt@Maximum Rated Voltage	200V/μs	

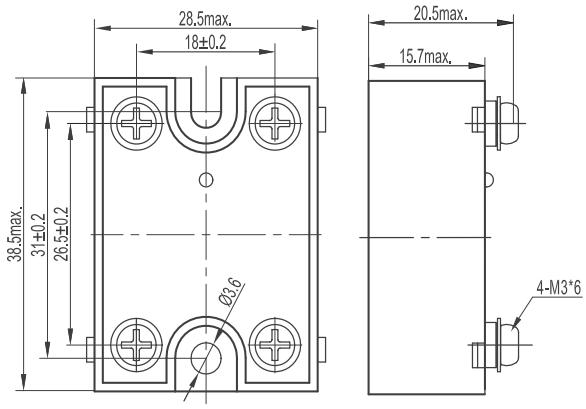
General Specifications

General Specifications (Ta=25℃)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Power Factor	>0.5	
Ambient Temperature Range	-30℃ ~ +80℃	
Storage Temperature Range	-30℃ ~ +100℃	
Weight (Typical)	35g	

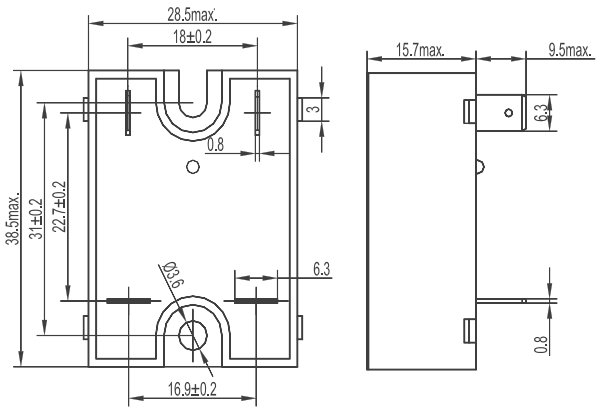
Applications

Temperature Chamber, Food Machinery, Industrial Machinery, and etc.

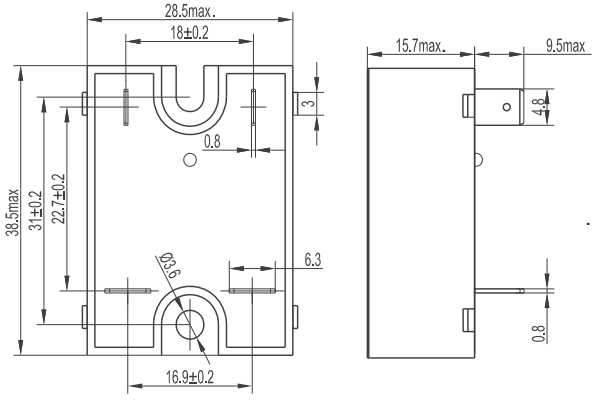
Outline Dimensions



Typical

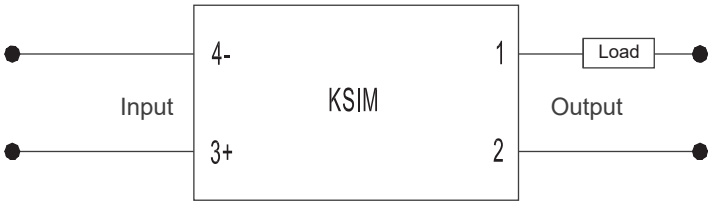


Customized Code 045

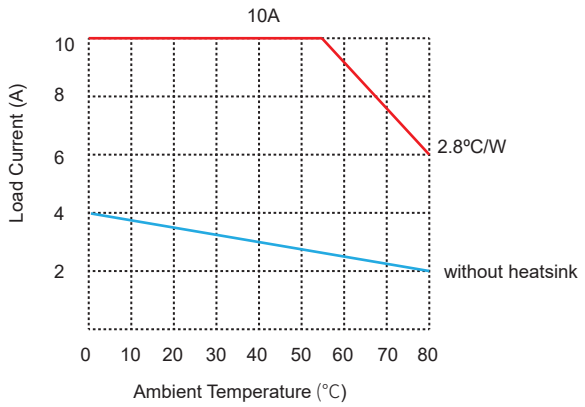


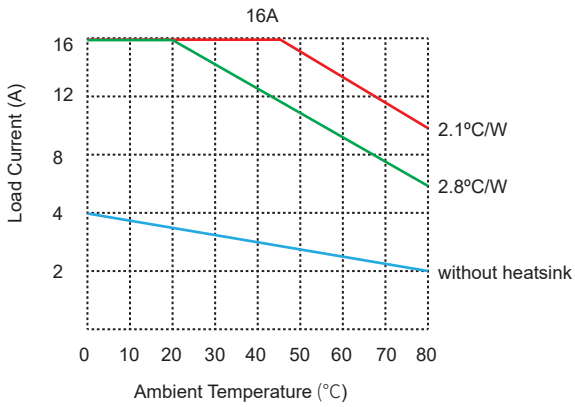
Customized Code 117

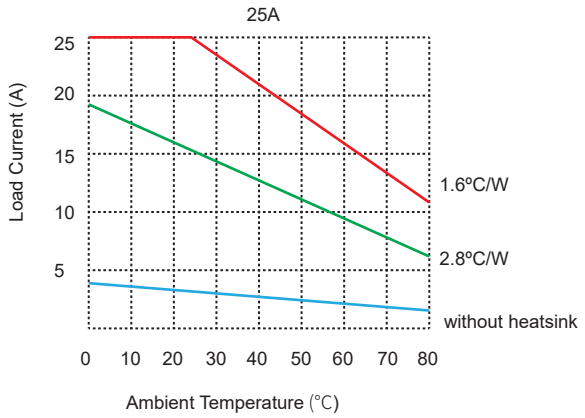
Wiring Diagram



Thermal Derating Curve







General Notes

1. Relay must be mounted to proper sized heat sink based on thermal curves. Thermal grease or a thermal pad must be used between relay and heat sink and be torqued down to 18-20/2.0-2.2 in-lb/N·m.
2. When connection wiring to SSR please ensure screws are torqued down properly (input 13-15/1.5-1.7in/lb/N·m, output 18-20/2.0-2.2 in-lb/N·m).
3. When ambient temperature is above 25℃ see thermal derating curve.

Agency Approvals (Certification)

Trademark Change Notification

Due to the company's strategic development needs, Xiamen Kudom Electronics Technology Co., Ltd will be acquired by i-Autoc (Xiamen) Investment Co., Ltd from 1st of July 2019. After the acquisition, all the products by Xiamen Kudom Electronics Technology Co., will no longer use Kudom trademark, but use i-Autoc trademark. The details of the change are as follows.

The original trademark KUDOM will be changed to i-Autoc. The original trademark KUDOM will still be used until 30th June 2019.

This is a change to the trademark only, the Company Name, Manufacturing Location, Management Team, Product Part Numbers and Safety Approval Licence Numbers (cUL, TUV, CCC, S-mark Etc) are to remain the same.