Product Description

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

Note: No CCC approval for TVS products.

Ordering Information

KSIM	240	D	25	R	-L	M	(XXX)
KSIM Series	Load Voltage 240: 240VAC 380: 380VAC	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 T: TVS (Optional)	Customized Code 045: Quick Connection 117: Quick Connection 198: Quick Connection

	10A	16A	25A
240	KSIM240D10-L	KSIM240D16-L	KSIM240D25-L
	KSIM240D10-LM	KSIM240D16-LM	KSIM240D25-LM
	KSIM240D10-LT	KSIM240D16-LT	KSIM240D25-LT
	KSIM240D10R-L	KSIM240D16R-L	KSIM240D25R-L
	KSIM240D10R-LM	KSIM240D16R-LM	KSIM240D25R-LM
	KSIM240D10R-LT	KSIM240D16R-LT	KSIM240D25R-LT
380	KSIM380D10-L	KSIM380D16-L	KSIM380D25-L
	KSIM380D10-LM	KSIM380D16-LM	KSIM380D25-LM
	KSIM380D10-LT	KSIM380D16-LT	KSIM380D25-LT
	KSIM380D10R-L	KSIM380D16R-L	KSIM380D25R-L
	KSIM380D10R-LM	KSIM380D16R-LM	KSIM380D25R-LM
	KSIM380D10R-LT	KSIM380D16R-LT	KSIM380D25R-LT

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 (@10ms)	10A	120A
	16A	160A
	25A	250A
I^2T	10A	$50A^2S$
	16A	$128A^2S$
	25A	$312A^2S$
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time	10ms	

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General Specifications

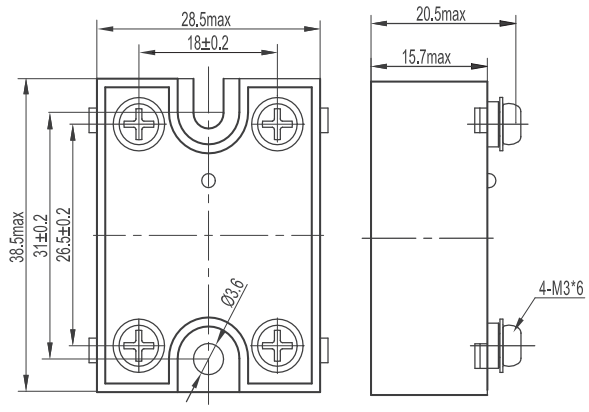
Output Specifications (Ta=25℃)		
Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
Maximum Off-State Leakage Current@Rated Load Voltage	5mA	
Maximum On-State Voltage Drop@Rated Current	1.5Vrms	
Minimum Off-State dv/dt@Maximum Rated Voltage	200V/μs	
Maximum di/dt Non Repetitive	50A/μs	

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	
Mains Frequency Range	47Hz～63Hz	

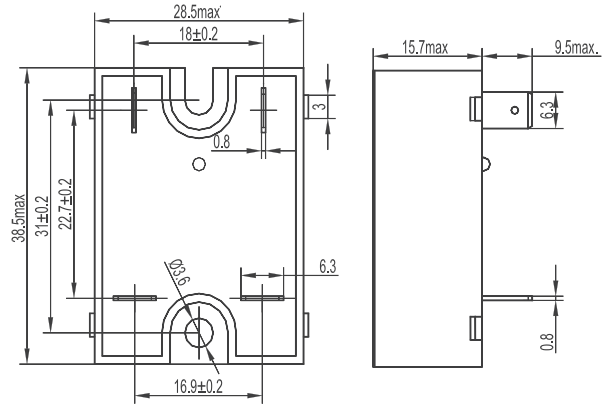
Applications

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

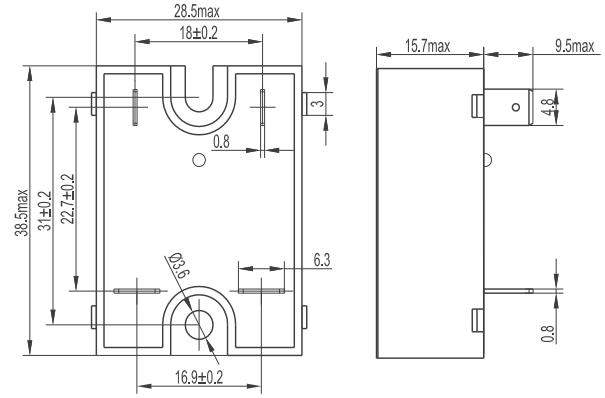
Outline Dimensions



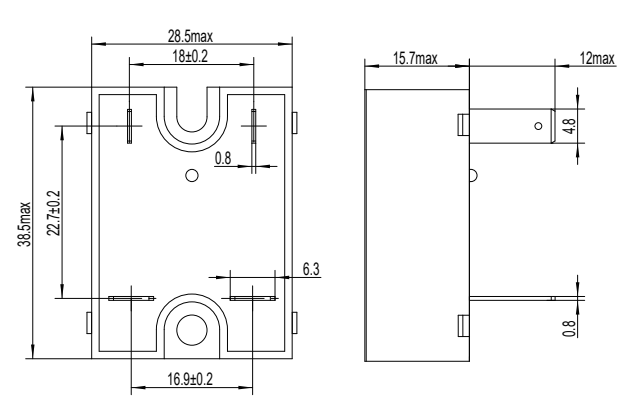
Typical



Customized Code 045



Customized Code 117



Customized Code 198

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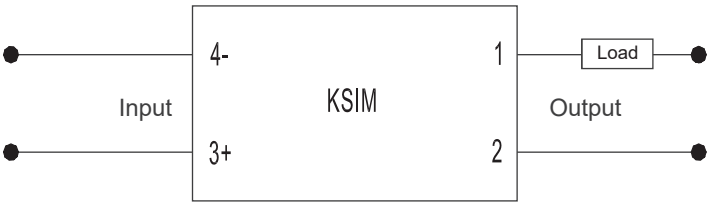
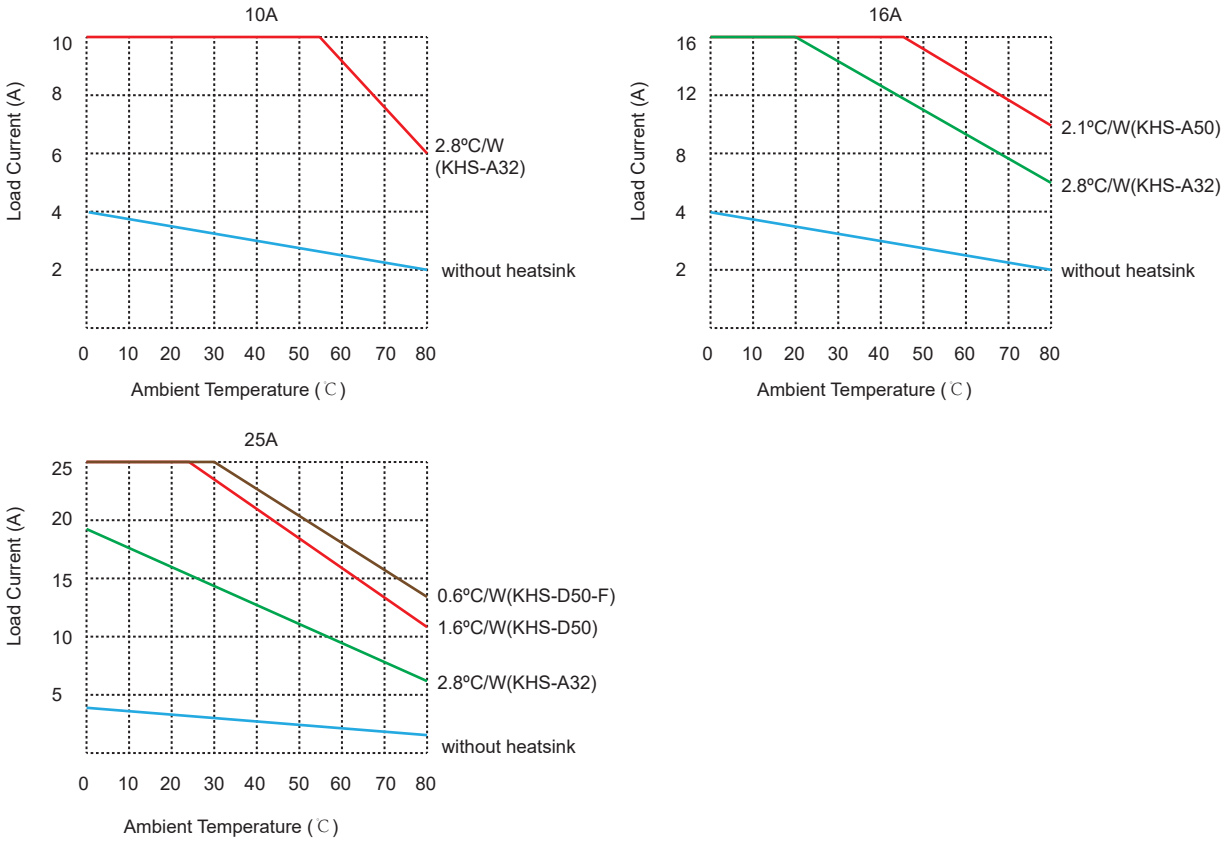
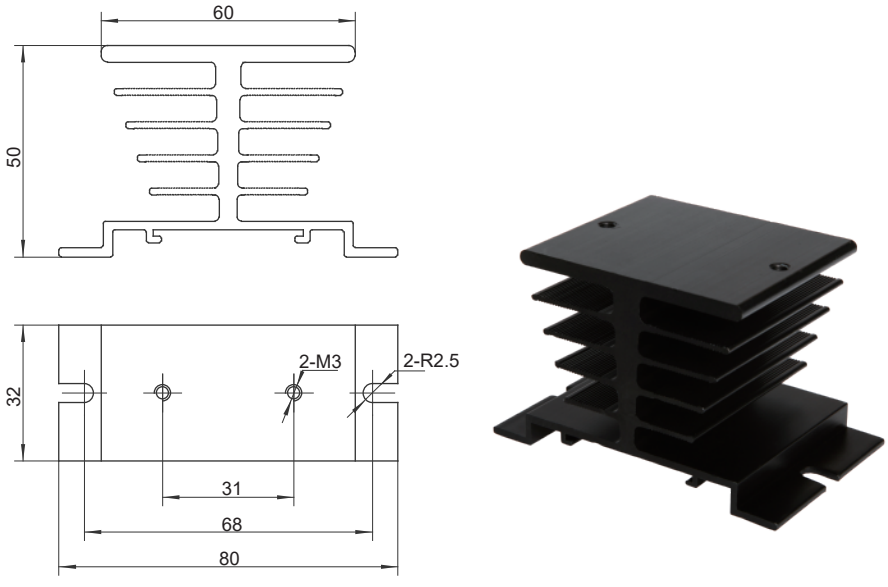
Wiring Diagram



Thermal Derating Curve



The above temperature curve is configured with radiator models as follows:



KHS-A32

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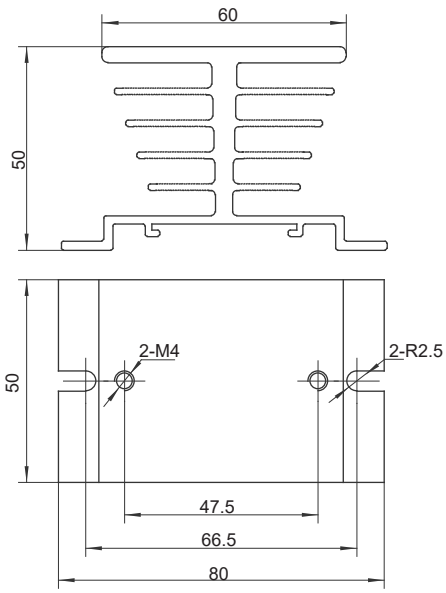
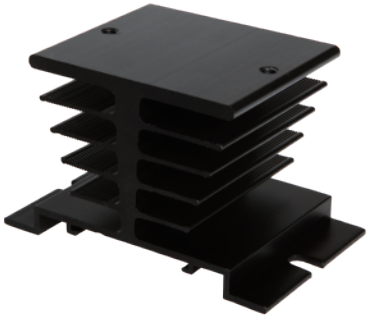
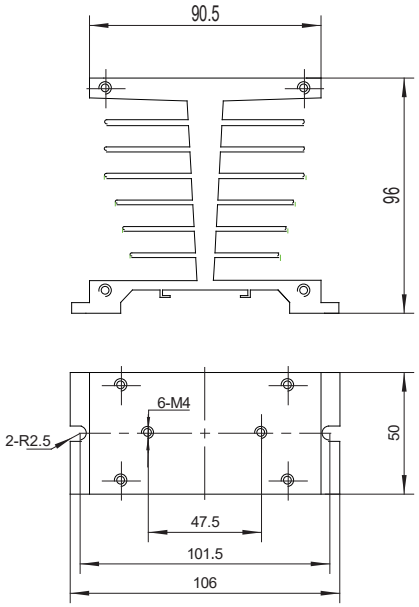




KHS-A50



KHS-D50

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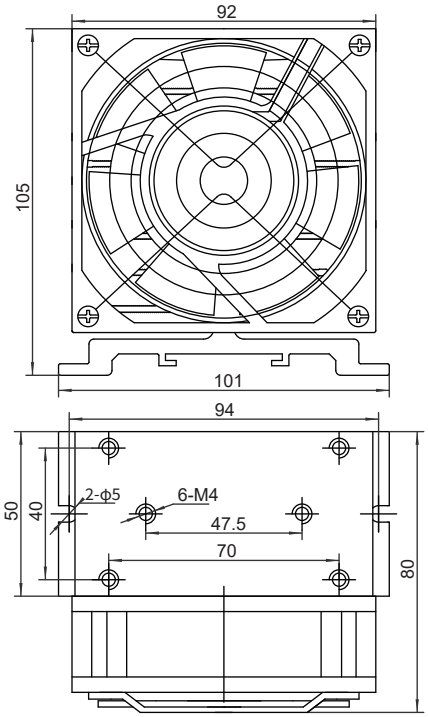

KHS-D50-F

General Notes

1. Relay must be mounted to proper sized beat sink hased on thermal curves. Thermal grease or a thermal pad must be used between relay and heat sink and be torqued down to 18-20/2.0-2.2in-lb/Nm.
2. When connection wiring to SSR, please ensure screws are torqued down properly (input 13-15/1.5-1.7in/lb/Nm, output13-15/1.5-1.7in-lb/Nm).
3. SSR's carrying load capacity is related to the operation ambient temperature and heat dissipation condition, please refer to the Thermal Derating Curve for derating.
4. The capacitive load will generate high inrush current at the moment when the SSR been turned on, which may damage the SSR. Therefore, if the load type is capacitive, or if the load has parallel capacitance, please make sure series connect a NTC in the load loop to suppress the inrush current to protect the SSR.

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