

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°C)		
Control Voltage Range	4-32VDC	
Must Turn-on Voltage	4VDC	
Must Turn-off Voltage	1VDC	
Maximum Input Current	25mA	
Output Specifications (Ta=25°C)		
Load Voltage Range	240VAC	24-280VAC
	380VAC	24-440VAC
Maximum 1 Cycle Surge Current (@10ms)	10A	120A
	16A	160A
	25A	250A
I²T	10A	50A²S
	16A	128A²S
	25A	312A²S
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time	10ms	

General Specifications

Output Specifications (Ta=25°C)

Transient Overvoltage	240VAC 380VAC	600Vpk 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	

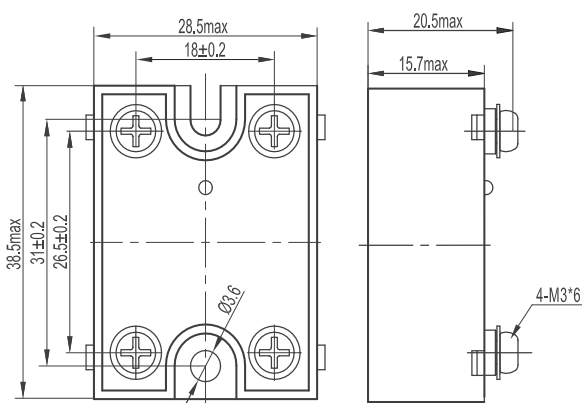
General Specifications (Ta=25°C)

Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Power Factor	>0.5	
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Weight (Typical)	35g	
Mains Frequency Range	47Hz~63Hz	

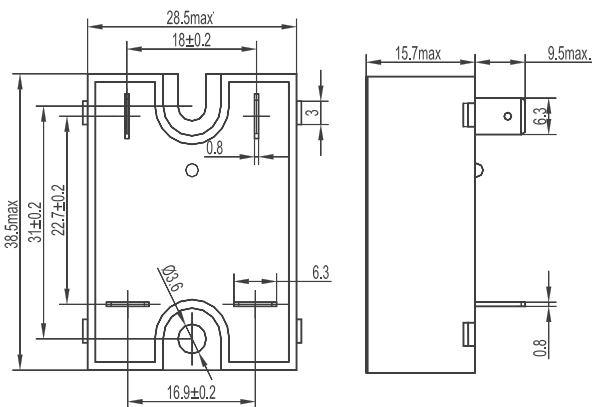
Applications

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

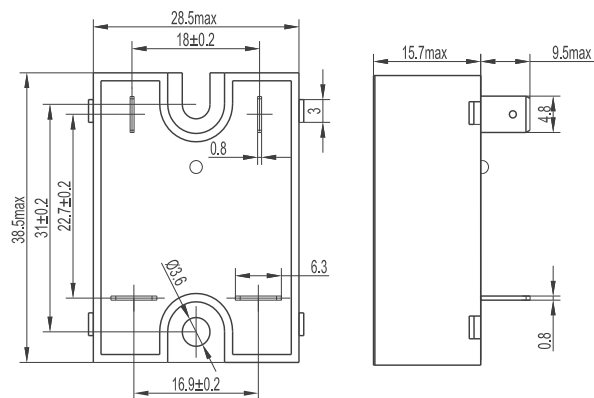
Outline Dimensions



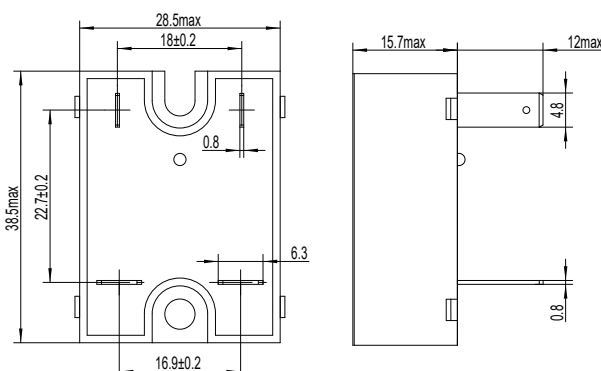
Typical



Customized Code 045

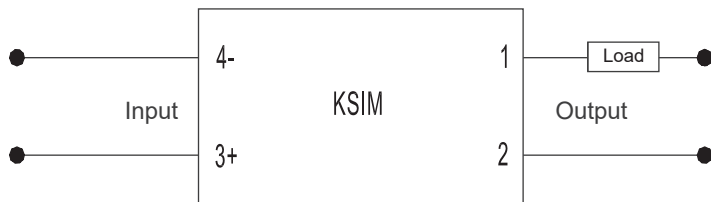


Customized Code 117

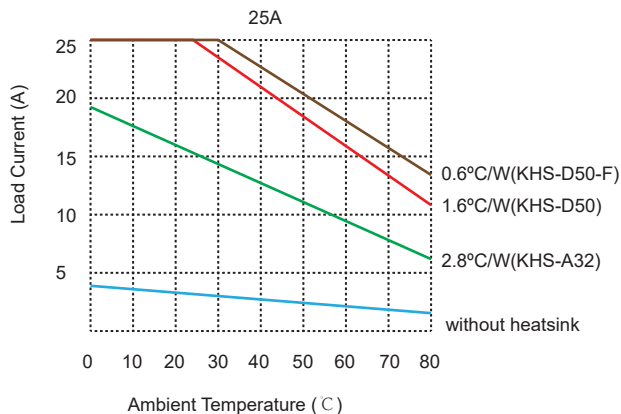
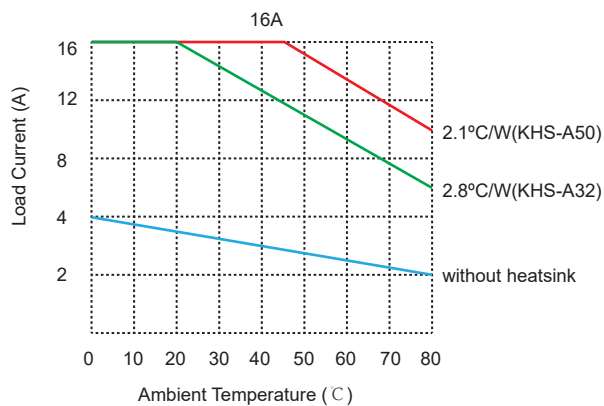
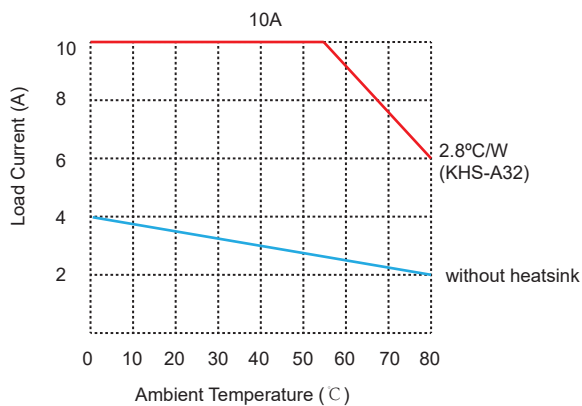


Customized Code 198

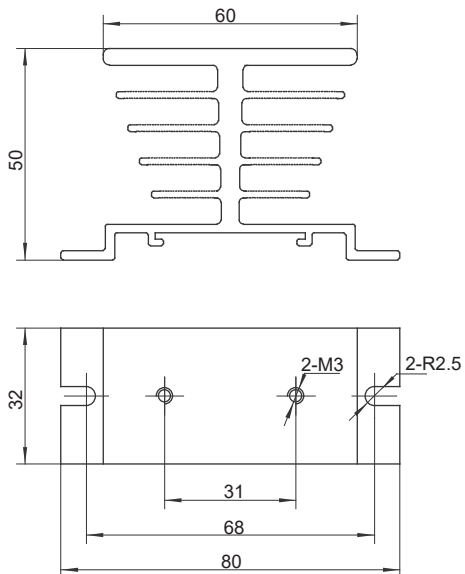
Wiring Diagram



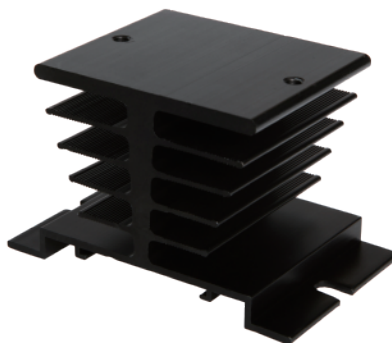
Thermal Derating Curve

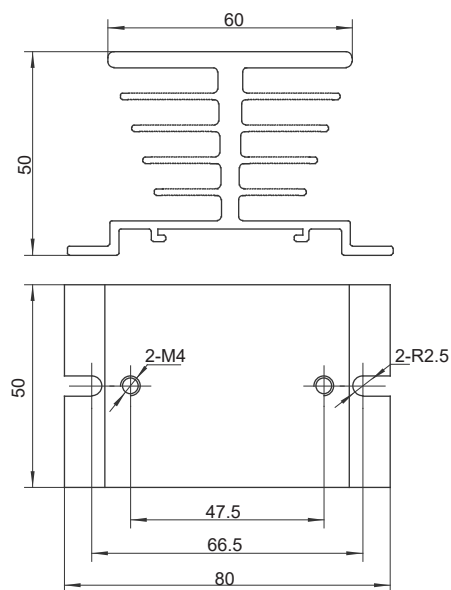


The above temperature curve is configured with radiator models as follows:

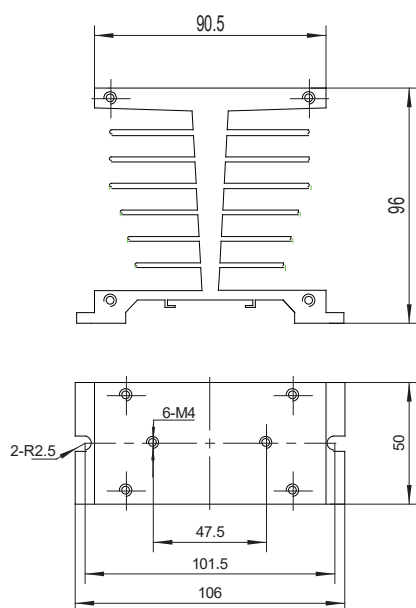
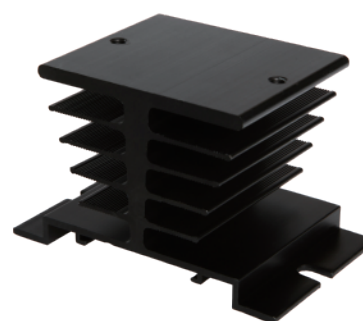


KHS-A32



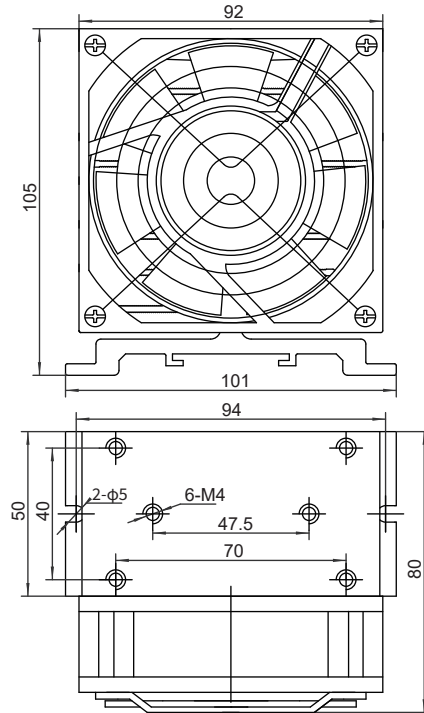


KHS-A50



KHS-D50





KHS-D50-F

General Notes

1. The heat generated by the relay shall be distributed through the bottom plate, and it shall be ensured that the bottom plate of the relay is in close contact with the radiator and firmly installed, and the contact surface shall be added with heat conducting pads or coated with heat conducting silicone grease.
2. The terminal of relay should ensure the wiring is firm. Loose wiring will lead to abnormal heating of the product and damage the product. The recommended mounting torque for bolt construction is (0.58 ~ 0.98) N·m.
3. When the working environment temperature of the product is high, please refer to the temperature curve for derating.