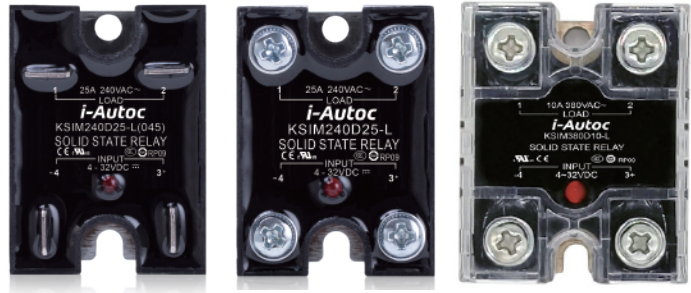


Product Description

- ◆ Zero-crossing or Random-on Switching
- ◆ Load Current: 10A, 16A, 25A
- ◆ TRIAC Output
- ◆ DC Input
- ◆ Dielectric Strength: 4000Vrms
- ◆ Built in RC
- ◆ Built in TVS Protection Circuit (Optional)
- ◆ LED Indicator
- ◆ Protective cover KPC-2A (Optional)



Note: No CCC approval for TVS products.

Product Selection

KSIM	240	D	25	R	-L	T	(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	L: LED	Protection Type T: TVS Protection Blank: Without Protection	Customized Code 045: Quick Connection 117: Quick Connection 198: Quick Connection

Available Part Numbers

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

Technical 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 (@32VDC)

Output Specifications (Ta=25°C)		
Load Voltage Range	240VAC	24-280VAC
	380VAC	24-440VAC
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
Maximum Surge Current (@10ms)	10A	120A
	16A	160A
	25A	250A
Maximum I ² t for Fusing (@10ms)	10A	50A ² s
	16A	128A ² s
	25A	312A ² s

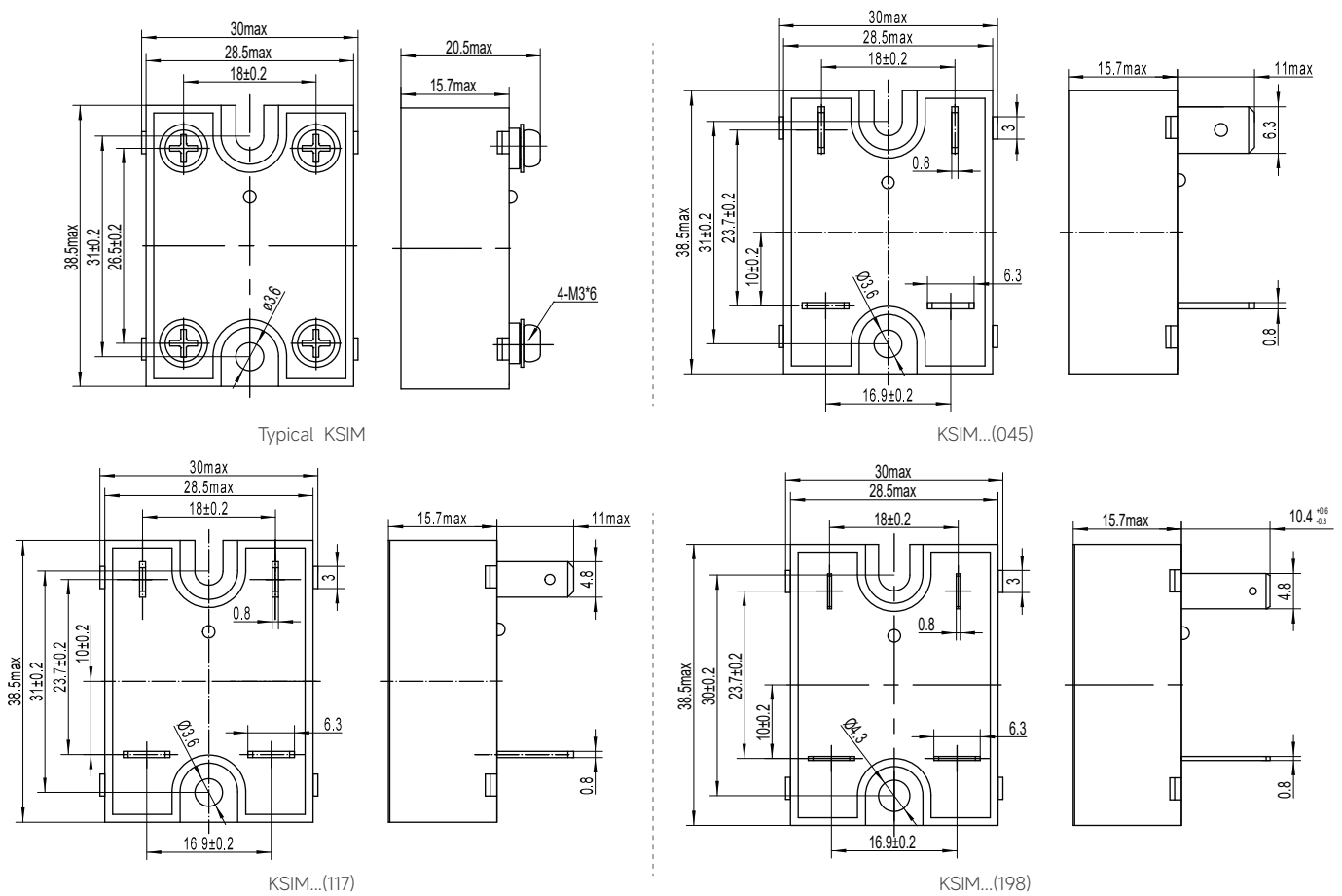
Output Specifications (Ta=25°C)		
Maximum Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
Maximum Off-State Leakage Current (@Rated Voltage)		5mA
Maximum On-State Voltage Drop (@Rated Current)		1.5Vrms
Minimum Off-State (dv/dt)		200V/μs
Maximum di/dt Non Repetitive		50A/μs
Operational Frequency Range		47~63Hz

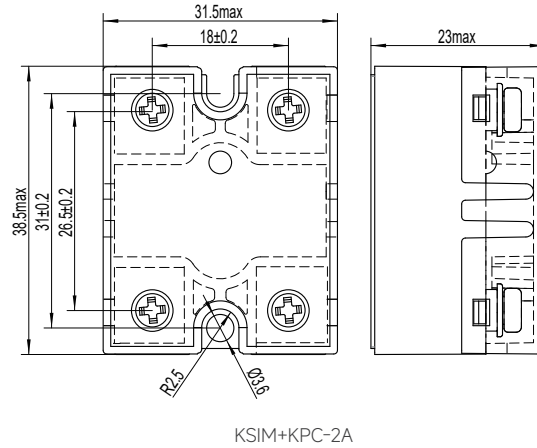
General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input,Output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)		1000MΩ
Power Factor		>0.5
Ambient Temperature Range		-30°C~+80°C
Storage Temperature Range		-30°C~+100°C
Weight (Typical)		35g

Applications

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

Outline Dimensions

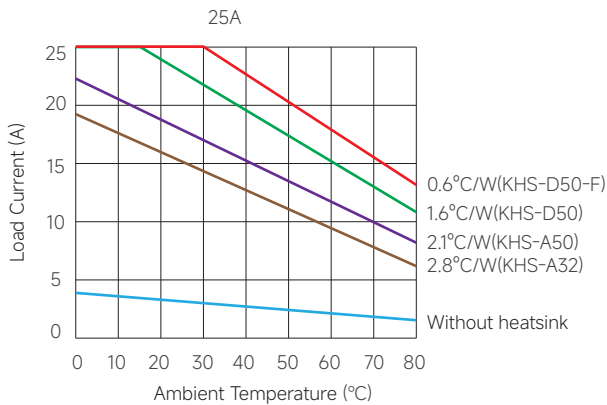
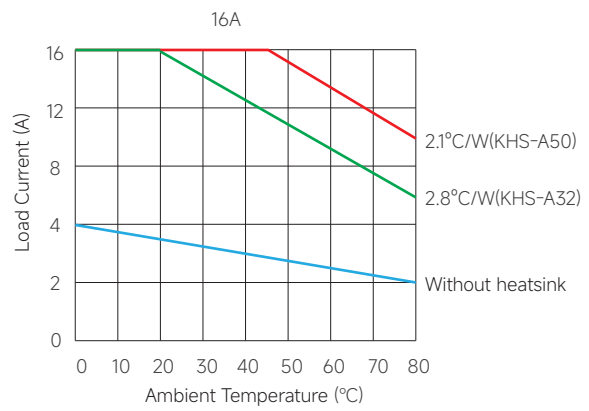
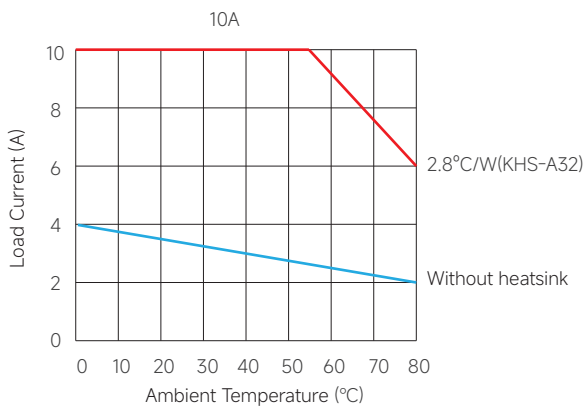




Wiring Diagram

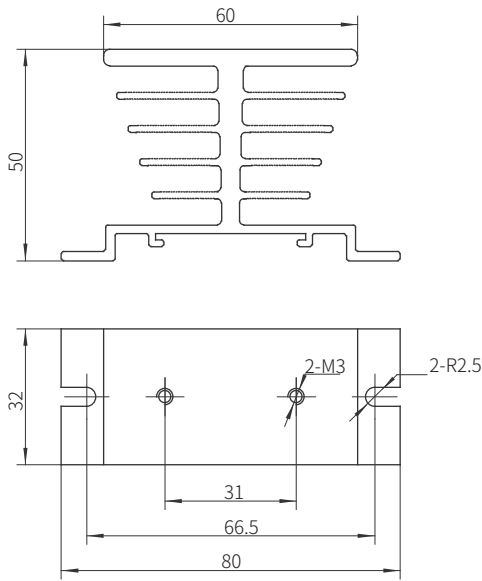


Thermal Derating Curve



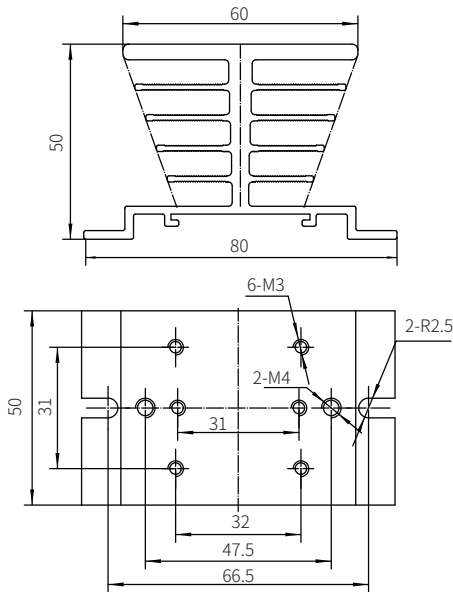
Note: The curve above shows the heatsink capability under the worst case (100% continuous operation) for a solid state relay. If your application involves intermittent operation, please contact us with your actual operating conditions (load current, on/off time, ambient temperature, etc.), and we will recommend the most suitable solution for you.

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



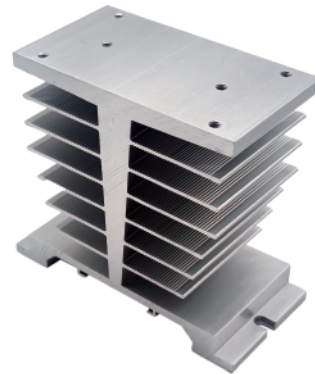
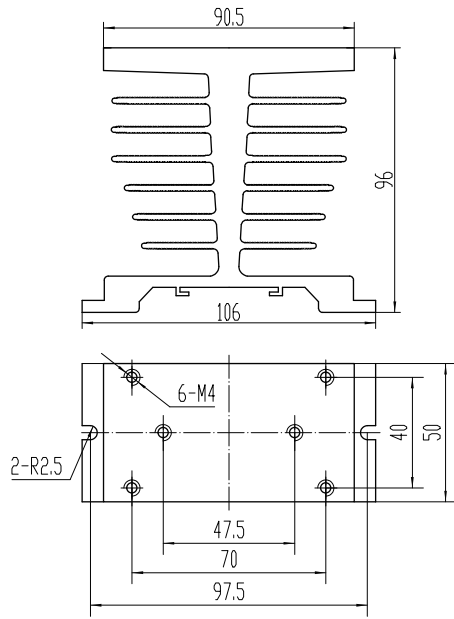
KHS-A32

(Note: The recommended mounting hole size is 68mm)

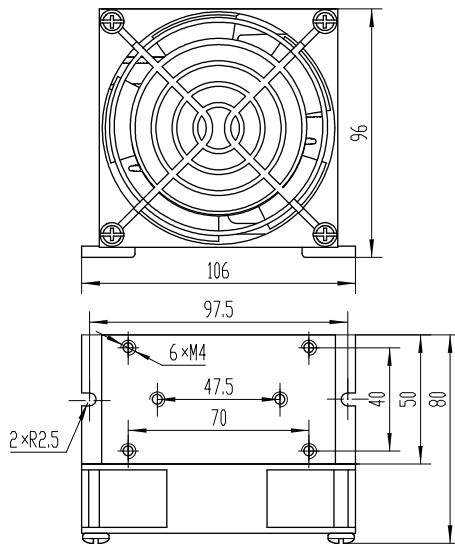


KHS-A50

(Note: The recommended mounting hole size is 68mm)



KHS-D50



KHS-D50-F

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 (13-15)/(1.5-1.7) in-lb/Nm.
2. When connection wiring to SSR, please ensure screws are torqued down properly. Recommended torque for input screw is (13-15)/(1.5-1.7) in-lb/Nm, output screw is (13-15)/(1.5-1.7) in-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.

! Warnings

1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.

Certification Standards

Certification	Test Standard
UL	UL508
	C22.2 No. 14-13
CCC	GB/T14048.5-2017
TUV	EN 60947-1:2007/A2:2014
	EN 60947-4-3:2014
CE	EN 60947-1:2007/A2:2014
	EN 60947-4-3:2014