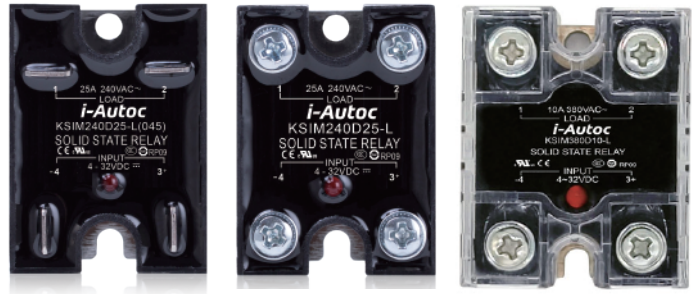


Product Description

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



Note: No CCC approval for TVS products.

Ordering Information

| | | | | | | | |
|-------------|--------------------------------------------|-------------------------------|-----------------------------------------------------|-----------------------------------------------------------|---------------|------------------|--------------------------------------------------------------------------------------------|
| 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 | LED Indicator | 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-LT | KSIM240D16-LT | KSIM240D25-LT |
| | KSIM240D10R-L | KSIM240D16R-L | KSIM240D25R-L |
| | KSIM240D10R-LT | KSIM240D16R-LT | KSIM240D25R-LT |
| 380 | KSIM380D10-L | KSIM380D16-L | KSIM380D25-L |
| | KSIM380D10-LT | KSIM380D16-LT | KSIM380D25-LT |
| | KSIM380D10R-L | KSIM380D16R-L | KSIM380D25R-L |
| | 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 |
| I ² T | 10A | 50A ² S |
| | 16A | 128A ² S |
| | 25A | 312A ² S |
| Maximum Turn-on Time | Random-on | 1ms |
| | Zero Crossing | 10ms |
| Maximum Turn-off Time | | 10ms |

General Specifications

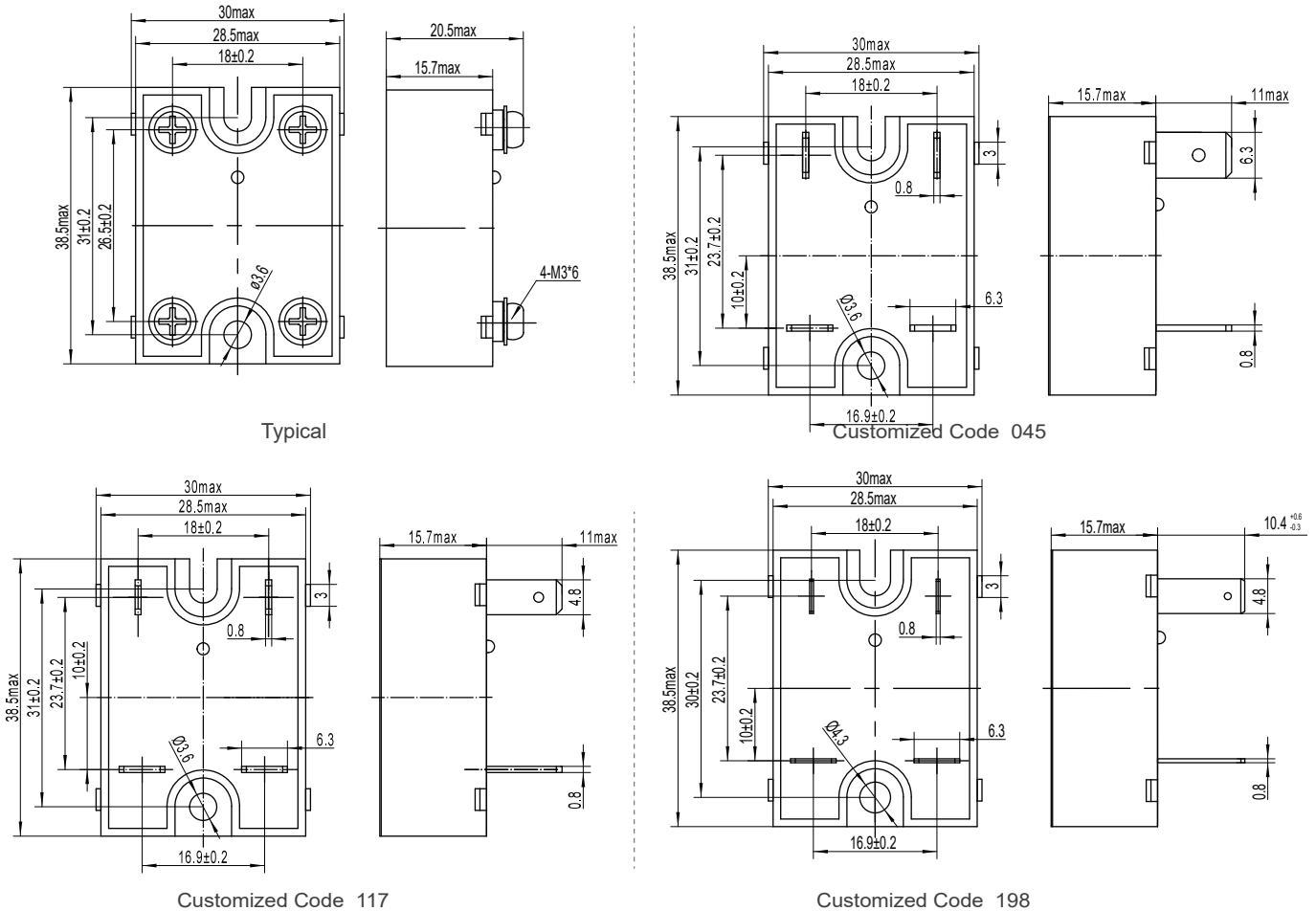
| Output Specifications (Ta=25°C) | | |
|------------------------------------------------------|-------------|--------|
| Transient Overvoltage | 240VAC | 600Vpk |
| | 380VAC | 800Vpk |
| Maximum Off-State Leakage Current@Rated Load Voltage | 5mA | |
| Maximum On-State Voltage Drop@Rated Current | 1.5Vrms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

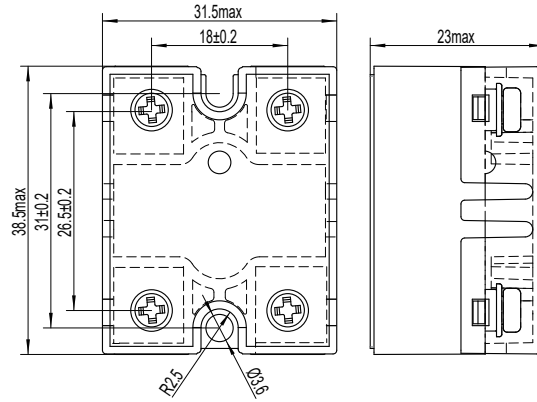
Applications

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

Outline Dimensions



Outline Dimensions

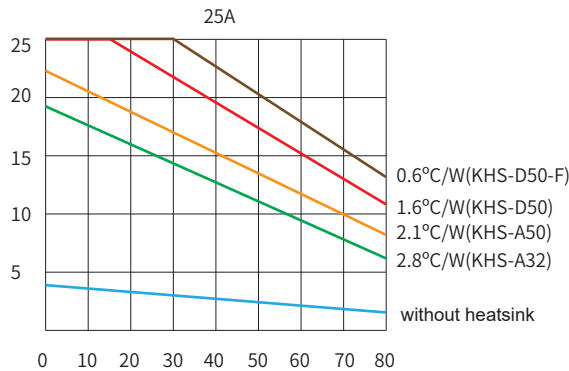
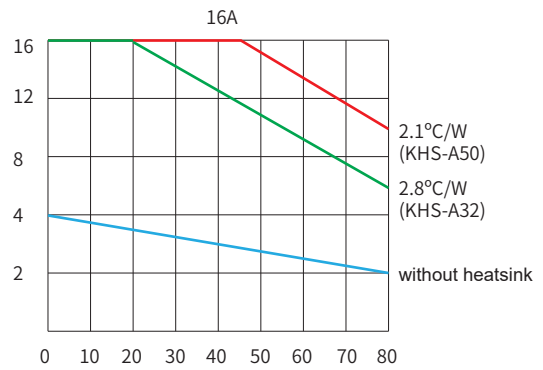
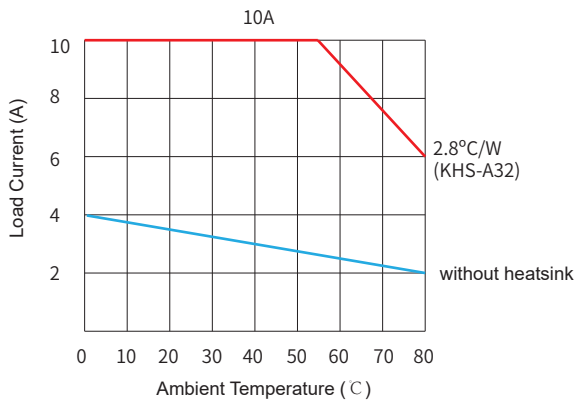


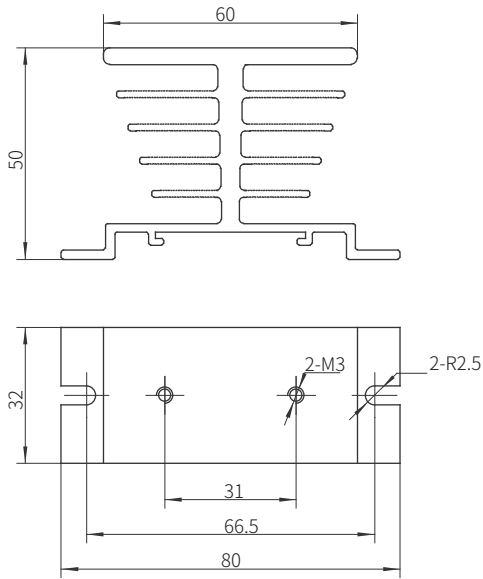
KSIM+KPC-2A

Wiring Diagram

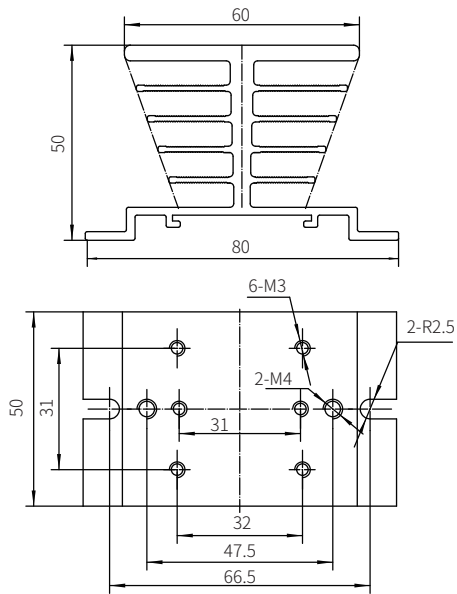


Thermal Derating Curve

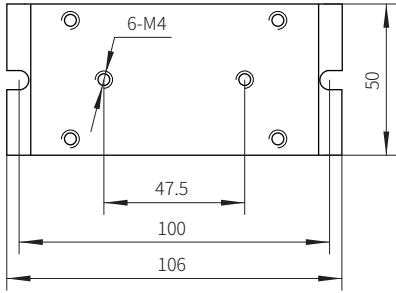
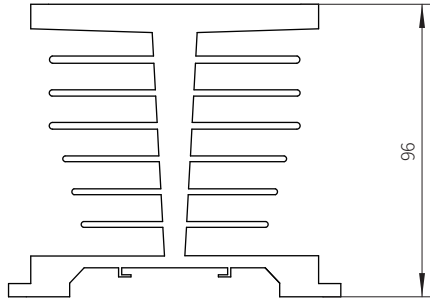




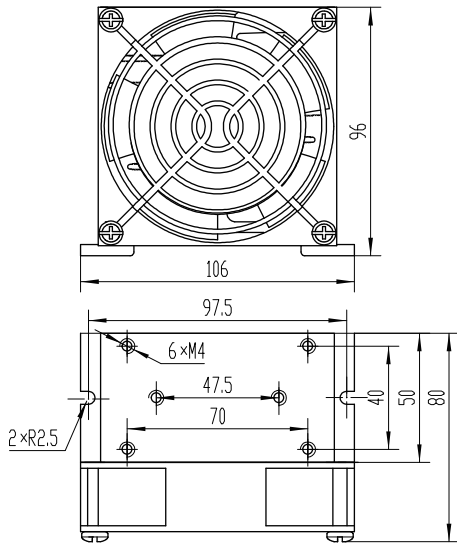
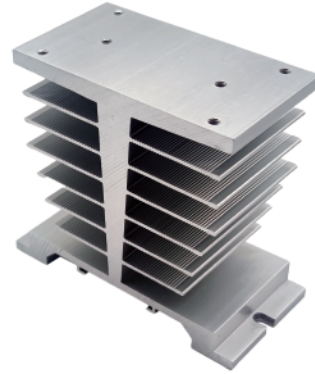
KHS-A32
(Note: The recommended mounting hole size is 68mm)



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 |
| CQC | 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 |