Product Description

- Zero- crossing or Random-on Switching
- Load Current:10A,16A,25A
- TRIAC Output
- DC Input
- Dielectric Str ength: 4000 V rms
- Built in RC
- Built in T V S Pr ot ection Cir cuit (Optional)
- LED Indicator
- Protective cover KPC-2A(Optional)



Product Selection

FL	240	D	25	R	-L	T	(XXX)
FL Series	Load Voltage 240: 240VAC 380: 380 VAC	Control Mode D: DC Control	Load Current 10: 10Amp 16: 16Amp 25: 25Amp	Switching Mode Blank: Zero Crossing R: Random-on	L: LED	Pr ot ection T ype T: T V S Pr ot ection Bl ank: Without Pr ot ection	Cust omiz ed C ode 045: Quick C onnection 117: Quick C onnection 19 8: Quick C onnection

Available Part NUmbers

L oad V oltage	10A	16A	25A
2 4 0 VA C	FL240D10-L	FL240D16-L	FL240D25-L
	FL240D10-LT	FL240D16-LT	FL240D25-LT
	FL240D10R-L	FL240D16R-L	FL240D25R-L
	FL240D10R-LT	FL240D16R-LT	FL240D25R-LT
3 8 0 VA C	FL380D10-L	FL380D16-L	FL380D25-L
	FL380D10-LT	FL380D16-LT	FL380D25-LT
	FL380D10R-L	FL380D16R-L	FL380D25R-L
	FL380D10R-LT	FL380D16R-LT	FL380D25R-LT

Technical Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range		4~3 2 VDC
Must Turn-on Voltage		4 VDC
Must Turn-off Voltage		1VDC
Maximum Input Current		25mA (@3 2 VDC)

Output Specifications (Ta=25°C)		
Load Voltage Range	240VAC	2 4~280 V A C
	380VAC	2 4~440 V A C
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
Maximum Surge Current (@10ms)	10A	120A
	16A	160A
	25A	250 A
Maximum I²t for Fusing (@10ms)	10A	50A ²s
	16A	128A ²s
	25A	312A ²s

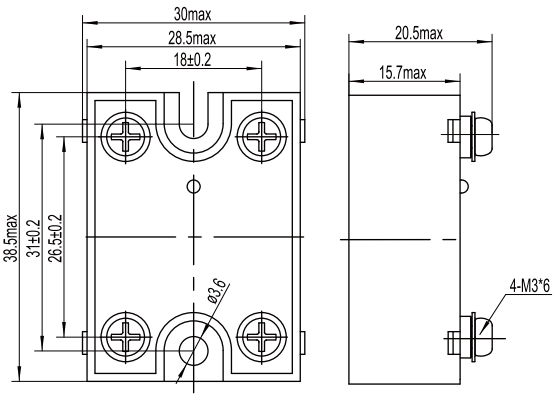
Output Specifications (Ta=25°C)		
Maximum Transient Overvoltage	240VAC	600 V pk
	380VAC	800 V pk
Maximum Off-State Leakage Current (@Rated Voltage)		5mA
Maximum On-State Voltage Drop (@Rated Current)		1. 5 V rms
Minimum Off-State (dv/dt)		2 00 V/μs
Maximum di/dt Non Repetitive		50 A/μs
Operational Frequency Range		4 7 ~ 63Hz

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000 V rms
	Input, Output/Base	2500 V rms
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

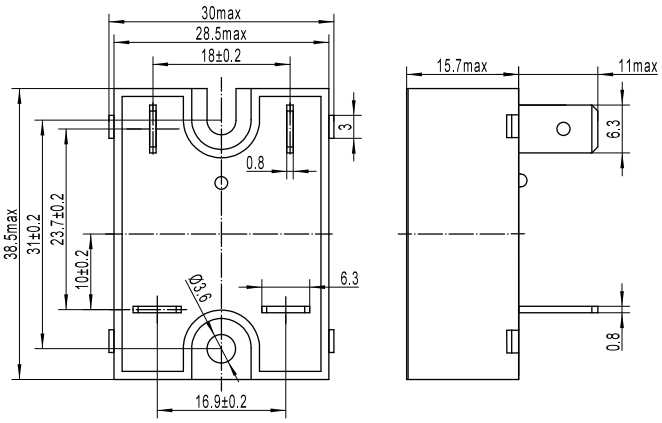
Applic ations

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

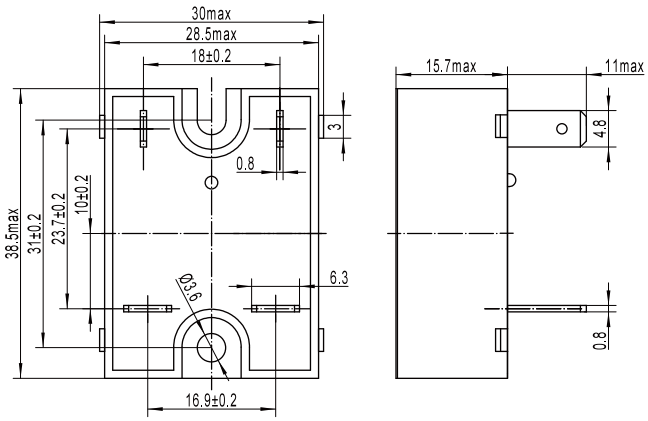
Outline Dimensions



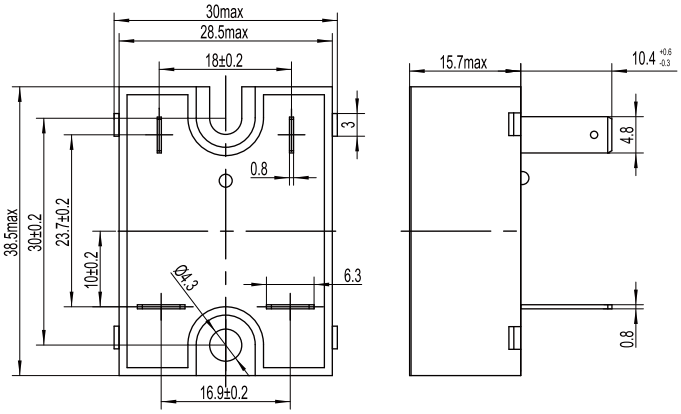
Typical FL



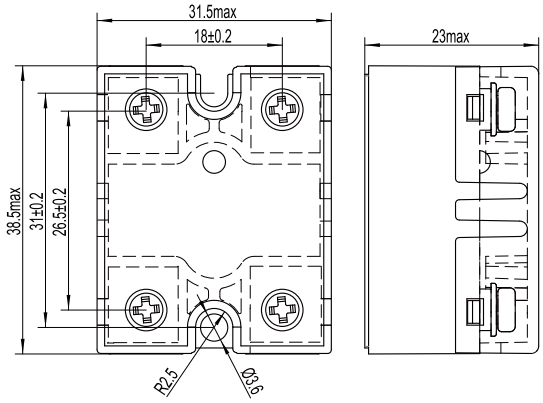
FL...(045)



FL...(117)

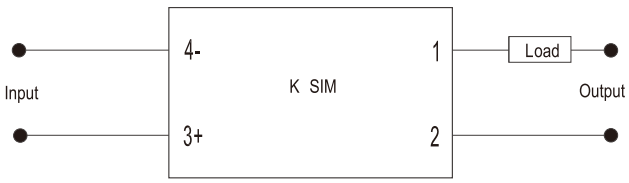


FL...(198)

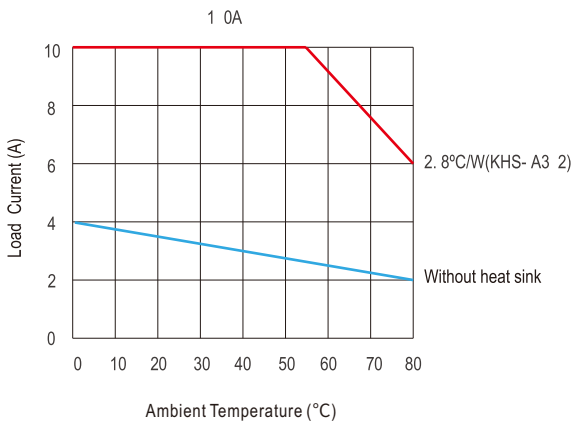


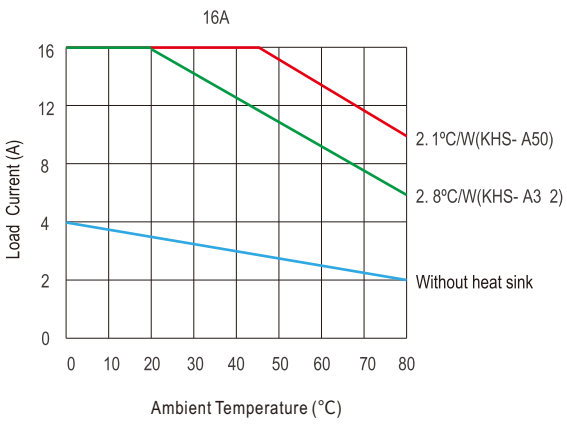
K SIM+KPC -2A

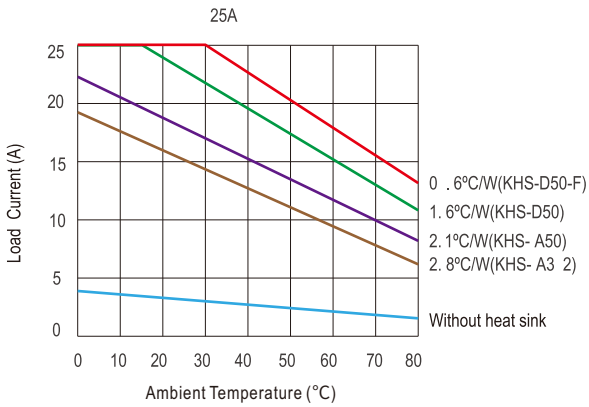
Wiring Diagram



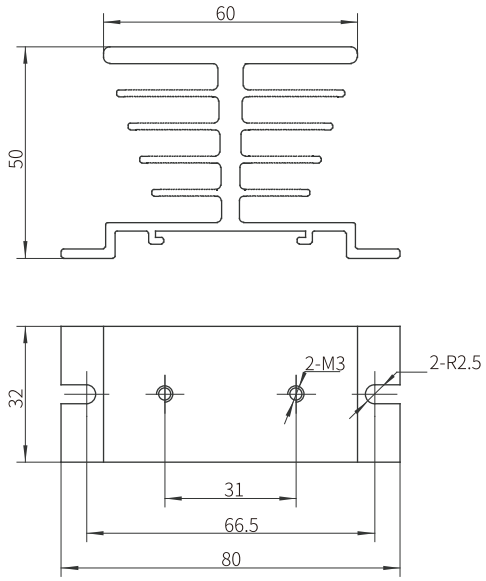
Thermal Derating Curve







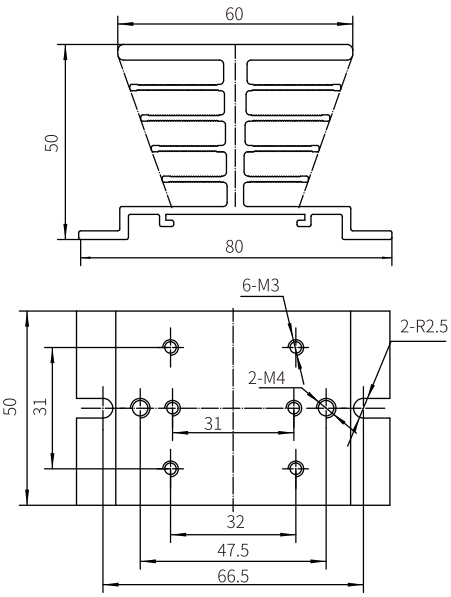
The above temperature curve is configured with radiator models as follows:





KHS- A32

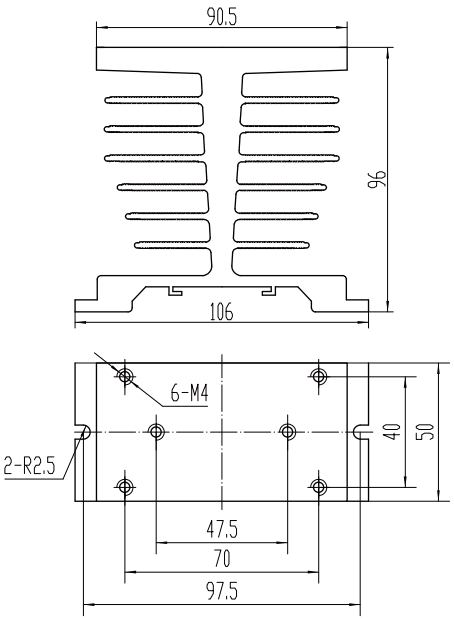
(Note:The recommended mounting hole size is 68mm)

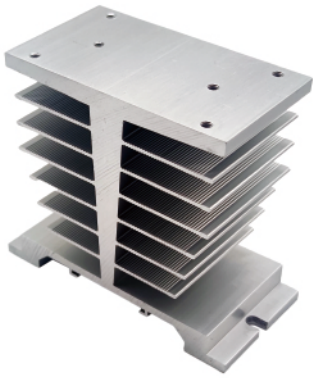




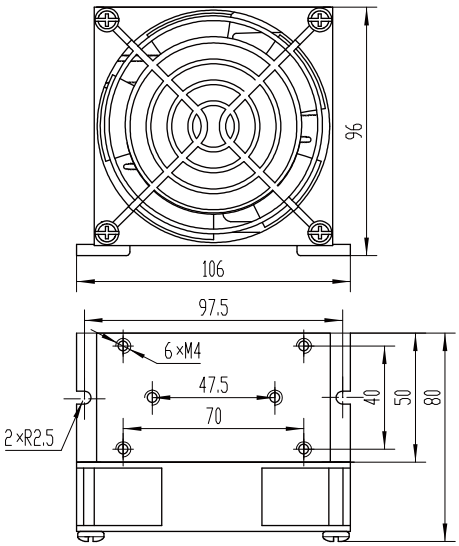
KHS- A50

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





KHS-D50





KHS-D50-F

General Notes

1. Relay must be mounted to proper sized beat sink based on thermal curves. Thermal grease or a thermal pad must be used between relay and heat sink and be torqued down to (1315)/(1.51.7) inlb/Nm.
2. When connection wiring to SSR, please ensure screws are torqued down properly. Recommended torque for input screw is (1315)/(1.51.7) inlb/Nm, output screw is (1315)/(1.51.7) inlb/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- 2 017
TUV	EN 609 4 7 -1:2 00 7 /A2:2 014
	EN 609 4 7 -4- 3:2 014
CE	EN 609 4 7 -1:2 00 7 /A2:2 014
	EN 609 4 7 -4- 3:2 014