

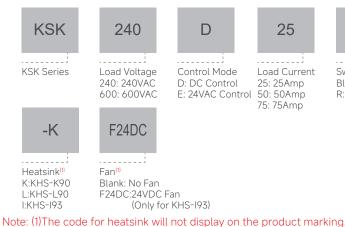
Product Description

- Zero Cross or Random-on Switching
- Load Current: 25A, 50A, 75A
- Load Voltage: 240VAC, 600VAC
- Control Voltage Range: 3~32VDC, 4~32VDC, 18~30VAC/15~30VDC
- SCR Output
- Internal RC Protection Circuit
- IP20 Touch-safe Housing
- Integrated with Heatsink
- Available with Thermal Protector Option
- EN50022 35mm DIN Rail Mount





Product Selection





Load Current 25: 25Amp E: 24VAC Control 50: 50Amp 75: 75Amp

25



Switching Mode

Blank: Zero Crossing

R: Random-on

KSK600E#-T



Customized Code

(XXX)

T: TVS Protection Blank: Without Protection



Random-on

KSK600E#R

With TVS

KSK240D#R-T

KSK240E#R-T

KSK600D#R-T

KSK600E#R-T

45001

ISO 1400

Note: (i) The code for heatening with the aloptaly of the produce marking.												
Available Part Numbers												
	Load	Blocking	Control	Zero Crossing		R						
	Voltage	Voltage	Voltage	-	With TVS	-						
	240-240\/AC	0001/1-1-	D: 3~32VDC	KSK240D#	KSK240D#-T	KSK240D#R						
240:240VAC	800Vpk	E: 24VAC	KSK240E#	KSK240E#-T	KSK240E#R							
	600·600\/AC	1200\/pk	D: 4~32VDC	KSK600D#	KSK600D#-T	KSK600D#R						

KSK600E#

Note: 1. For products with TVS, the blocking voltage refers to SCR chip and optocoupler. 2. # Represents the rated load current, which is 25, 50 or 75.

Technical Specifications

1200Vpk

E: 24VAC

600:600VAC

Input Specifications (Ta=25°C)		
Control Voltage Range	KSK240D Series	3~32VDC
	KSK600D Series	4~32VDC
	KSKE Series	18~30VAC/15~30VDC
Maximum Input Current	KSKD Series	20mA (@32VDC)
	KSKE Series	20mA (@30VDC/30VAC)
Must Turn-on Voltage	KSK240D Series	3VDC
	KSK600D Series	4VDC
	KSKE Series	18VAC/15VDC
Must Turn-off Voltage	KSK240D Series	1VDC
	KSK600D Series	5VAC/VDC
Maximum Reverse Voltage	KSKE Series	-32VDC

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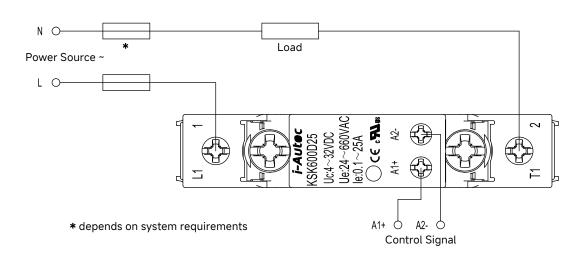


Output Specifications (Ta=25°C)

Output Specifications (Ta=25°C)			
	KSK240 Series		24~280VAC
Load Voltage Range	KSK600 Series		24~660VAC
Blocking Voltage	KSK240 Series		800Vpk
	KSK600 Series		1200Vpk
 	KSK25 Series		25A
Load Current	KSK50 Series	 	50A
	KSK75 Series		75A
Miximum Load Current			100mA
	KSK25 Series		800Apk
Maximum Surge Current (@10ms)	KSK50 Series	, , ,	850Apk
	KSK75 Series	 	900Apk
	KSK25 Series	 	3200A ² s
Maximum I ² t for Fusing (@10ms)	KSK50 Series	 	3612A ² s
	KSK75 Series	I I	4050A ² s
	KSKD Series	Random-on	1ms
1aximum Turn-on Time		Zero Crossing	1/2cycle+1ms
	KSKE Series	 	30ms
Maximum Turn-off Time	KSKD Series	 	1/2cycle+1ms
	KSKE Series	I I	30ms
VS Breakdown Voltage	KSK240T Series		480V
	KSK600T Series	 	1100V
Maximum Off-State Leakage Current	: (@Rated Voltage)		5mA
Maximum On-State Voltage Drop (@	Rated Current)	 	1.5Vrms
Minimum Off-State (dv/dt)		 	1000V/µs

General Specifications (Ta=25°C)				
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms		
	Input,Output/Heatsink	4000Vrms		
Minimum Insulation Resistance (@500VDC)		1000mΩ		
Ambient Temperature Range		-30°C ~ +80°C		
Storage Temperature Range		-30°C ~ +100°C		
	KSK25K Series	190g		
	KSK25L Series	260g		
Weight (Typical)	KSK50L Series	260g		
	KSK50I Series	420g		
	KSK75IF24DC Series	470g		
Fan Voltage		24VDC		

Wiring Diagram



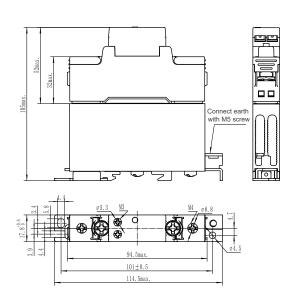
Note: For the KSK...D... series, the control signal is A1+&A2-, and for the KSK...E... series, the control signal is A1&A2.

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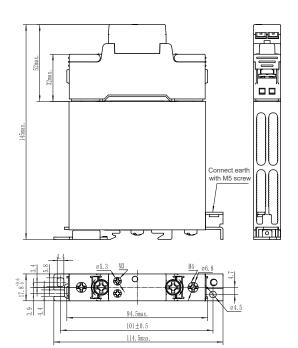




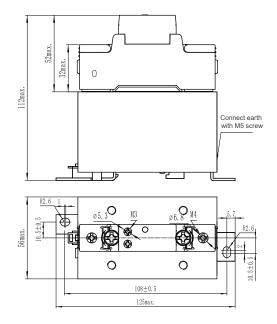
Outline Dimensions



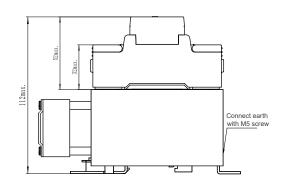
KSK...25...-K Series

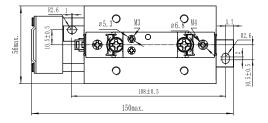


KSK...25/50...-L Series

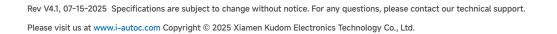


KSK...50...-I Series





KSK...75...-IF24DC Series

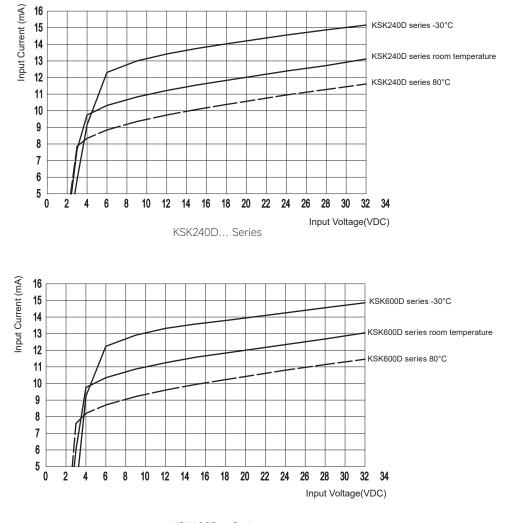




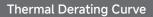
Input Current vs. Input Voltage

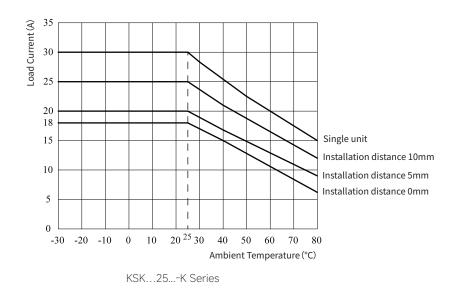
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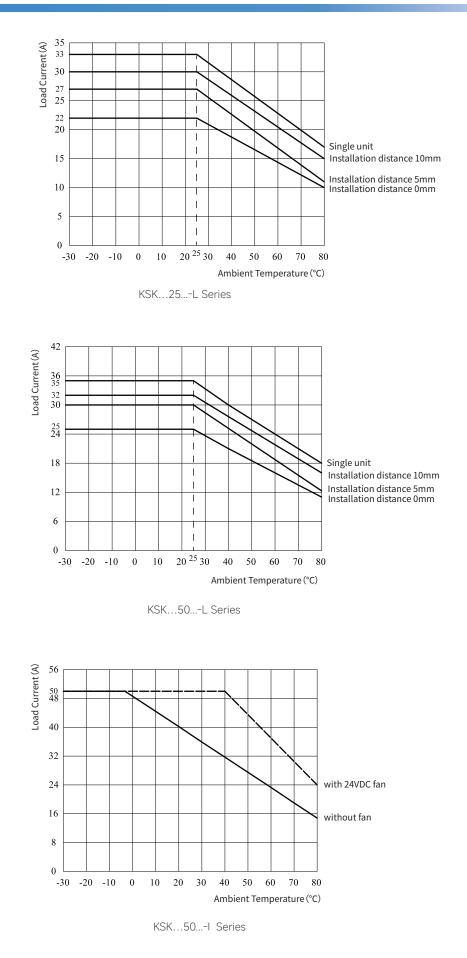


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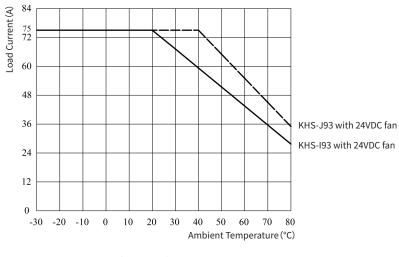












KSK...75... Series

General Notes

- 1. When the temperature of the product is high, please refer to the temperature curve.
- The recommended mounting torque for the input M3 terminal, when using screw driver head of PH2, is (0.35~0.5)N ⋅ m or (3.1~4.4) in.-lbs. For the output M4 terminal, when using screw driver heads of PZ2, the recommended torque is (0.98~1.37)N ⋅ m or (8.7~12.1)in.-lbs.
- 3. The relay terminal should ensure a reliable connection, poor connection may lead to the product overheating and damaging it.
- 4. The cabinet where the product is installed should be equipped with a fan, and the air duct should be optimized to effectively cool the solid-state relay product. Sufficient space should be reserved for product installation to prevent overheating and ensure proper ventilation.
- 5. If a thermal protector is required, please contact us for technical support.

! Warnings

- 1. The product may be hot during use, 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.

