

Product Description

Zero Cross or Random-on Switching

◆ Rated Current: 25A

* Rated Voltage: 240VAC, 600VAC Input Range: 3-32VDC or 4-32VDC

SCR output

Internal RC Protection Circuit

IP20 touch-safe housing

Integrated Heatsink

+ EN50022 35mm DIN Rail mount



Ordering Information

KSK

240

D

25







Customer Code





KSK Series

Load Voltage 240: 240VAC 600: 600VAC

Control Voltage Rated Current D: DC control 25: 25Amp

Switching Mode None:Zero Crossing R: Random-on

Over Voltage Protection None: Without MOV

or TVS M: With MOV T: With TVS

Heatsink

K: KHS-K90 heatsink L: KHS-L90 heatsink

Note: The code for heatsink will not display on the product marking.

List of Models								
Rated Load	Blocking	0	Zero-on			RANDOM-ON		
Voltage	Voltage ⁽¹⁾	Control Voltage	<u>-</u>	with MOV	with TVS	-	with MOV	with TVS
240:240VAC	800VPK	D: 3∼32VDC	KSK240D25	KSK240D25-M	KSK240D25-T	KSK240D25R	KSK240D25R-	M KSK240D25R-T
600:600VAC	1200VPK	D: 4~32VDC	KSK600D25	-	KSK600D25-T	KSK600D25R	-	KSK600D25R-T

Technical Specifications Input Specifications (Ta=25°C) KSK240D...series $3\sim$ 32VDC Control Voltage Range KSK600D....series $4\sim$ 32VDC Maximum Input Current(2 20mA(@32VDC) KSK240D...series 3VDC Must Turn-on Voltage KSK600D...series 4VDC Must Turn-off Voltage 1VDC Maximum Reverse Voltage -32VDC









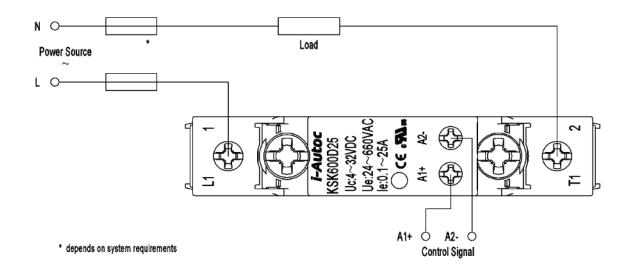
Technical Specifications

Output Specifications(Ta=25°C)		
	KSK240D series	24~280VAC
Load Voltage Range (45∼65Hz)	KSK600D series	24~660VAC
DI 1: 1/1 (1)	KSK240D series	800Vpk
Blocking Voltage ⁽¹⁾	KSK600D series	1200Vpk
Varistor Voltage of MOV	KSK240DM series	470V
Breakdown Voltage of Internal TVS	KSK240DT series	480V
breakdown voltage of internal 1 vo	KSK600DT series	1100V
Max. Operational Current AC-51@25°C(3)	with KHS-K90 heatsink	30A
Max. Operational outrent Ao-31@23 CV	with KHS-L90 heatsink	35A
Max. Operational Current AC-51@40°C ⁽³⁾	with KHS-K90 heatsink	25A
Wax. Operational Guitent AC-51@40 C	with KHS-L90 heatsink	30A
Min. Load Current		100mA
Surge Current (@10ms)		800Apk
Max. I²t For Fusing (@10ms)		3200A ² s
Max. Turn-on Time	KSKD25Rseries	1ms
Max. Tutti-ott Tittle	KSKD25series	1/2cycle+1ms
Max. Turn-off Time		1/2cycle+1ms
Max. Off-State Leakage Current (@ Rated Voltage)	3mA	
Max. On-state Voltage Drop (@ Rated Current)	1.5Vrms	
Min. Off-state dv/dt	1000V/µs	

General Specifications(Ta=25°C)							
Dialoctric Strongth (FO/SOLL)	Input/Output	1	4000Vrms				
Dielectric Strength(50/60Hz)	Input,Output/Heatsink		4000Vrms				
Insulation Resistance(@500V)			1000ΜΩ				
Ambient Operating Temperature Range			-30°C ∼ +80°C				
Ambient Storage Temperature Range			-30°C ∼ +100°C				
Weight/Typical)	with KHS-K90 heatsink		190g				
Weight(Typical)	with KHS-L90 heatsink		260g				

- (1) For products with built-in MOV or TVS, please refer to MOV and TVS protection voltage;
- (2) The input current value is related to the input voltage and ambient temperature. Please refer to "input current v.s. input voltage curve" for details;
- (3) The maximum load current is related to ambient temperature and product installation spacing. For details, please refer to "Temperature curve".

Wiring Diagram







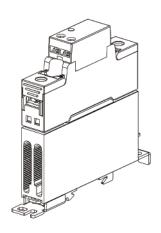


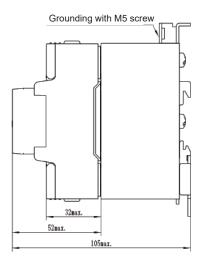


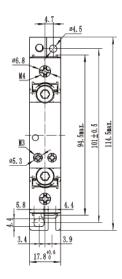
Installation

Unit:mm,Tolerances:±0.3mm

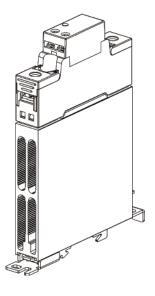
KSK...25...-K series

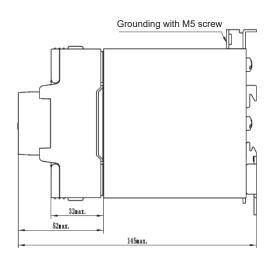


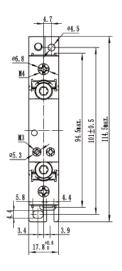




KSK...25...-L series

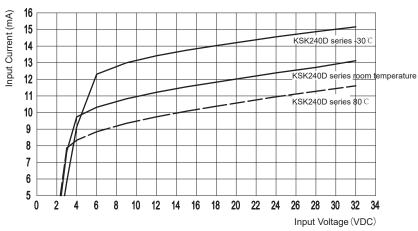






Input current vs. input voltage





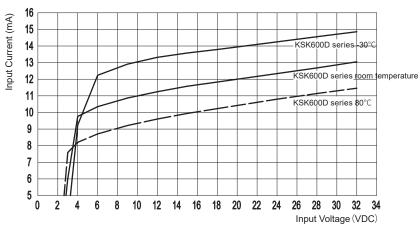






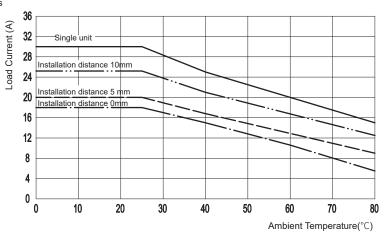
Derating vs. spacing curves



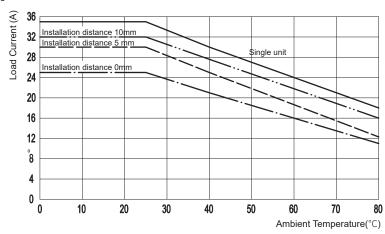


Thermal Curve

KSK...25...-K series



KSK...25...-L series









Important Notice

- 1. SSR's carrying load capacity is related to the operation ambient temperature and heat dissipation condition, when there are many pieces SSR installed closely, please refer to the Thermal Derating Curve for derating.
- 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 (18-20)/(2.0-2.2) in-lb/Nm).

! 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.





