Product Description

- Zero-crossing or Random-on Switching
- Load Current: 30~75A @ 24~660VAC
- SCR Output
- AC or DC Input Control
- Dielectric Strength: 4000Vrms
- LED Indicator
- Internal RC Protection Circuit

Product Selection

KSU	600	D	30	R		-L	T	(XXX)
KSU Series	Load Voltage 600: 600VAC	Control Mode D: DC Control D: AC Control	Load Current 30:30Amp 50:50Amp 75:75Amp	Switching Mode Blank: Zero Crossing R: Random-on		L: LED	Protection Type T: TVS Protection Blank: Without Protection	Customized Code

Available Part Numbers

Control Mode	30A	50A	75A
D: 4~32VDC	KSU600D30-L	KSU600D50-L	KSU600D75-L
	KSU600D30-LT	KSU600D50-LT	KSU600D75-LT
	KSU600D30R-L	KSU600D50R-L	KSU600D75R-L
	KSU600D30R-LT	KSU600D50R-LT	KSU600D75R-LT
A: 90~280VAC	KSU600A30-L	KSU600A50-L	KSU600A75-L
	KSU600A30-LT	KSU600A50-LT	KSU600A75-LT
	KSU600A30R-L	KSU600A50R-L	KSU600A75R-L
	KSU600A30R-LT	KSU600A50R-LT	KSU600A75R-LT

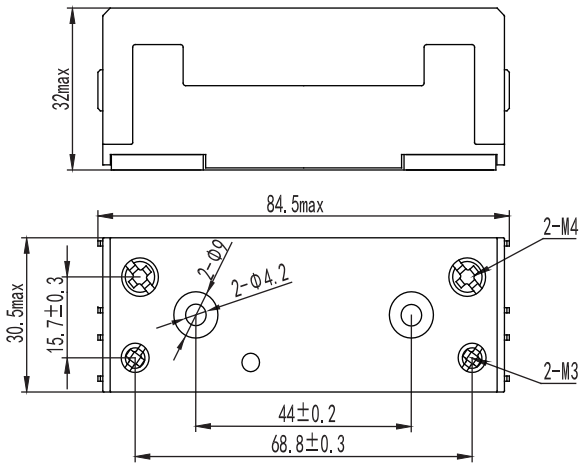
Technical Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range	DC Control	4~32VDC
	AC Control	90~280VAC
Must Turn-on Voltage	DC Control	4VDC
	AC Control	90VAC
Must Turn-off Voltage	DC Control	1VDC
	AC Control	15VAC
Maximum Input Current	DC Control Zero Crossing	15mA (@32VDC)
	DC Control Random-on	18mA (@32VDC)
	AC Control	25mA (@280VAC/50Hz)

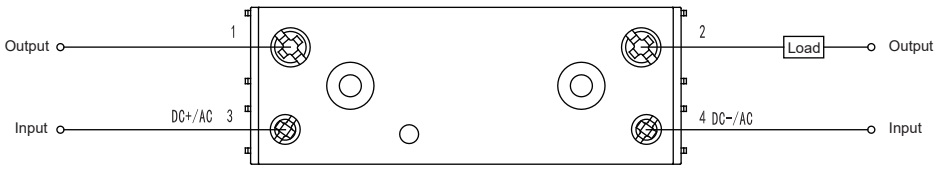
Output Specifications (Ta=25°C)		
Load Voltage Range		24~660VAC
Minimum Load Current		100mA
Maximum Turn-on Time	DC Control Zero Crossing	10ms
	DC Control Random-on	1ms
	AC Control	40ms
Maximum Turn-off Time	DC Control	10ms
	AC Control	40ms
Maximum Surge Current (@10ms)	30A	400A
	50A	600A
	75A	800A
Maximum I^2t for Fusing (@10ms)	30A	800A²s
	50A	1800A²s
	75A	3200A²s
Transient Overvoltage		1200Vpk
Maximum Off-State Leakage Current @Rated Load Voltage		5mA
Maximum On-State Voltage Drop @Rated Current		1.6Vrms
Minimum Off-State dv/dt @Maximum Rated Voltage		500V/μs
Power Factor		0.5

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input, output/Base	2500Vrms
Operating Temperature Range		-30℃～+80℃
Storage Temperature Range		-30℃～+100℃
Weight (Typical)	30A / 50A	100g
	75A	130g

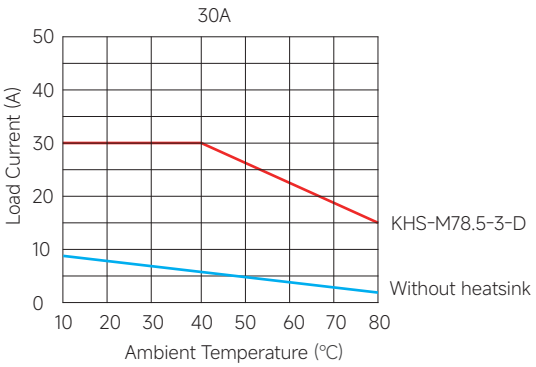
Outline Dimensions

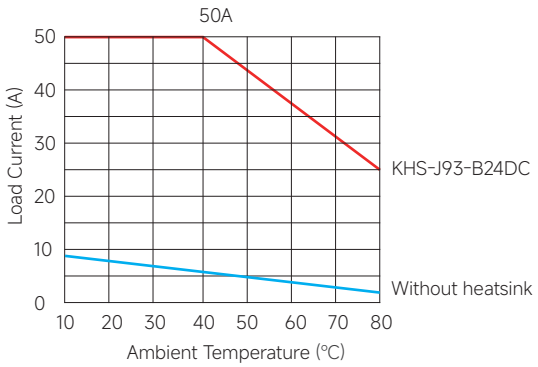


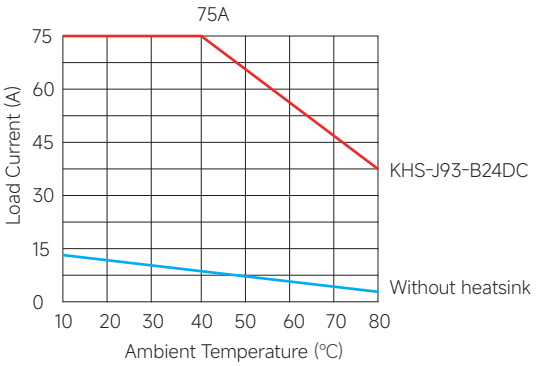
Wiring Diagram



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 intermitent 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.

General Notes

1. 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 18-20/2.0-2.2in-lb/Nm.
2. When connection wiring to SSR, please ensure screws are torqued down properly (input 13-15/1.5-1.7in/lb/Nm, output 18-20/2.0-2.2 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 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.

