Product Description

- Zero Crossing or Random-on Switching
- SCR Output
- DC or AC Input
- Load Current: 10A, 20A, 30A, 40A, 50A, 75A
- Dielectric Strength: 4000Vrms
- Built-in RC Snubber Circuit
- With Integrated Heatsink, Width 30mm
  (for 10A-30A), 50mm (for 40A) or 105 mm(50A,75A)
- 35mm Rail DIN(EN50022)
- LED Indicator
- RoHS Compliant



Ordering Information

KSV	480	D	30	R	-L	M	(XXX)
KSV Series	Load Voltage 240: 240VAC 480: 480VAC 600: 600VAC	D: DC Control A: AC Control	Load Current 10:10Amp 20:20Amp 30:30Amp 40:40Amp 50:50Amp 75:75Amp	Switching Mode Blank: Zero Crossing R: Random-on	L: LED	M: MOV T: TVS (Optional)	Customized Code

		10A	20A	30A	40A	50A	75A
D:4-32VDC	240	KSV240D10-L	KSV240D20-L	KSV240D30-L	KSV240D40-L	KSV240D50-L	KSV240D75-L
		KSV240D10-LM	KSV240D20-LM	KSV240D30-LM	KSV240D40-LM	KSV240D50-LM	KSV240D75-LM
		KSV240D10-LT	KSV240D20-LT	KSV240D30-LT	KSV240D40-LT	KSV240D50-LT	KSV240D75-LT
		KSV240D10R-L	KSV240D20R-L	KSV240D30R-L	KSV240D40R-L	KSV240D50R-L	KSV240D75R-L
		KSV240D10R-LM	KSV240D20R-LM	KSV240D30R-LM	KSV240D40R-LM	KSV240D50R-LM	KSV240D75R-LM
		KSV240D10R-LT	KSV240D20R-LT	KSV240D30R-LT	KSV240D40R-LT	KSV240D50R-LT	KSV240D75R-LT
	480	KSV480D10-L	KSV480D20-L	KSV480D30-L	KSV480D40-L	KSV480D50-L	KSV480D75-L
		KSV480D10-LM	KSV480D20-LM	KSV480D30-LM	KSV480D40-LM	KSV480D50-LM	KSV480D75-LM
		KSV480D10-LT	KSV480D20-LT	KSV480D30-LT	KSV480D40-LT	KSV480D50-LT	KSV480D75-LT
		KSV480D10R-L	KSV480D20R-L	KSV480D30R-L	KSV480D40R-L	KSV480D50R-L	KSV480D75R-L
		KSV480D10R-LM	KSV480D20R-LM	KSV480D30R-LM	KSV480D40R-LM	KSV480D50R-LM	KSV480D75R-LM
		KSV480D10R-LT	KSV480D20R-LT	KSV480D30R-LT	KSV480D40R-LT	KSV480D50R-LT	KSV480D75R-LT
	600	KSV600D10-L	KSV600D20-L	KSV600D30-L	KSV600D40-L	KSV600D50-L	KSV600D75-L
		KSV600D10-LM	KSV600D20-LM	KSV600D30-LM	KSV600D40-LM	KSV600D50-LM	KSV600D75-LM
		KSV600D10-LT	KSV600D20-LT	KSV600D30-LT	KSV600D40-LT	KSV600D50-LT	KSV600D75-LT
		KSV600D10R-L	KSV600D20R-L	KSV600D30R-L	KSV600D40R-L	KSV600D50R-L	KSV600D75R-L
		KSV600D10R-LM	KSV600D20R-LM	KSV600D30R-LM	KSV600D40R-LM	KSV600D50R-LM	KSV600D75R-LM
		KSV600D10R-LT	KSV600D20R-LT	KSV600D30R-LT	KSV600D40R-LT	KSV600D50R-LT	KSV600D75R-LT
A:90-280VAC	240	KSV240A10-L	KSV240A20-L	KSV240A30-L	KSV240A40-L	KSV240A50-L	KSV240A75-L
		KSV240A10-LM	KSV240A20-LM	KSV240A30-LM	KSV240A40-LM	KSV240A50-LM	KSV240A75-LM
		KSV240A10-LT	KSV240A20-LT	KSV240A30-LT	KSV240A40-LT	KSV240A50-LT	KSV240A75-LT
		KSV240A10R-L	KSV240A20R-L	KSV240A30R-L	KSV240A40R-L	KSV240A50R-L	KSV240A75R-L
		KSV240A10R-LM	KSV240A20R-LM	KSV240A30R-LM	KSV240A40R-LM	KSV240A50R-LM	KSV240A75R-LM
		KSV240A10R-LT	KSV240A20R-LT	KSV240A30R-LT	KSV240A40R-LT	KSV240A50R-LT	KSV240A75R-LT
	480	KSV480A10-L	KSV480A20-L	KSV480A30-L	KSV480A40-L	KSV480A50-L	KSV480A75-L
		KSV480A10-LM	KSV480A20-LM	KSV480A30-LM	KSV480A40-LM	KSV480A50-LM	KSV480A75-LM
		KSV480A10-LT	KSV480A20-LT	KSV480A30-LT	KSV480A40-LT	KSV480A50-LT	KSV480A75-LT
		KSV480A10R-L	KSV480A20R-L	KSV480A30R-L	KSV480A40R-L	KSV480A50R-L	KSV480A75R-L
		KSV480A10R-LM	KSV480A20R-LM	KSV480A30R-LM	KSV480A40R-LM	KSV480A50R-LM	KSV480A75R-LM
		KSV480A10R-LT	KSV480A20R-LT	KSV480A30R-LT	KSV480A40R-LT	KSV480A50R-LT	KSV480A75R-LT

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Ordering Information

		10A	20A	30A	40A	50A	75A
A:90-280VAC	600	KSV600A10-L	KSV600A20-L	KSV600A30-L	KSV600A40-L	KSV600A50-L	KSV600A75-L
		KSV600A10-LM	KSV600A20-LM	KSV600A30-LM	KSV600A40-LM	KSV600A50-LM	KSV600A75-LM
		KSV600A10-LT	KSV600A20-LT	KSV600A30-LT	KSV600A40-LT	KSV600A50-LT	KSV600A75-LT
		KSV600A10R-L	KSV600A20R-L	KSV600A30R-L	KSV600A40R-L	KSV600A50R-L	KSV600A75R-L
		KSV600A10R-LM	KSV600A20R-LM	KSV600A30R-LM	KSV600A40R-LM	KSV600A50R-LM	KSV600A75R-LM
		KSV600A10R-LT	KSV600A20R-LT	KSV600A30R-LT	KSV600A40R-LT	KSV600A50R-LT	KSV600A75R-LT

General Specifications

Input Specifications (Ta=25℃)

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	25mA	

Output Specifications (Ta=25℃)

Load Voltage Range	240VAC	24-280VAC
	480VAC	24-530VAC
	600VAC	24-660VAC
Maximum Turn-on Time	DC Control Random-on	1ms
	DC Control Zero Crossing	10ms
	AC Control	40ms
Maximum Turn-off Time	DC Control	10ms
	AC Control	40ms
Maximum Surge Current (@10ms)	10A	200A
	20A	300A
	30A	500A
	40A	600A
	50A	650A
	75A	750A
Maximum I^2t for Fusing (@10ms)	10A	$200A^2s$
	20A	$450A^2s$
	30A	$1250A^2s$
	40A	$1800A^2s$
	50A	$2112A^2s$
	75A	$2812A^2s$
Maximum Transient Overvoltage	240VAC	600Vpk
	480VAC	1200Vpk
	600VAC	1600Vpk
Maximum Off-State Leakage Current@Rated Load Voltage	10mA	
Maximum On-State Voltage Drop@Rated Current	1.6Vrms	
Minimum Off-State dv/dt@Maximum Rated Voltage	500V/μs	

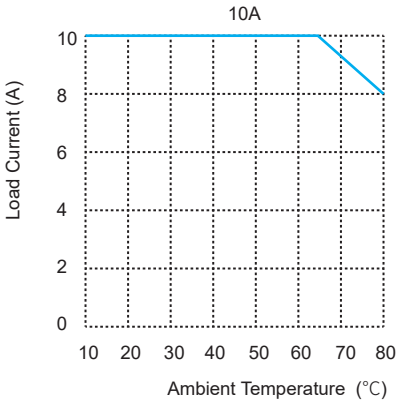
Dielectric Strength (50/60Hz)		
Minimum Insulation Resistance (@500VDC)	Input/Output	4000Vrms
Minimum Power Factor (at Maximum load)	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Minimum Power Factor (at Maximum load)	0.5	
Ambient Temperature Range	-30°C ～ +80°C	
Storage Temperature Range	-30°C ～ +100°C	
Weight (Typical)	10A/20A/30A	355g
	40A	540g
	50A	1030g
	75A	1062g

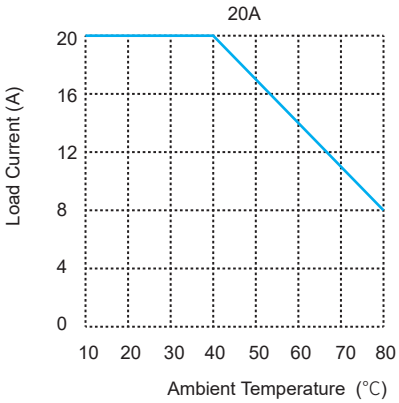
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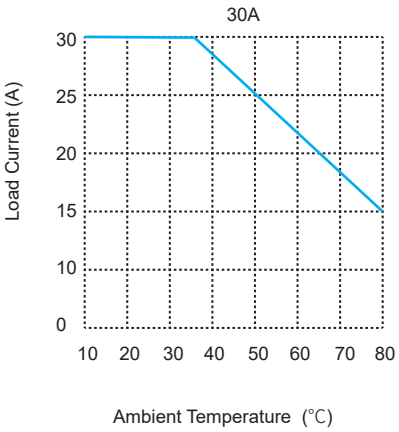
Applications

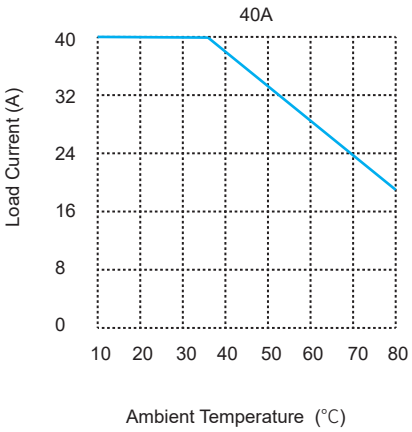
Suitable for Temperature Chamber, Injection Molding Machine, Packaging Machine, and etc.

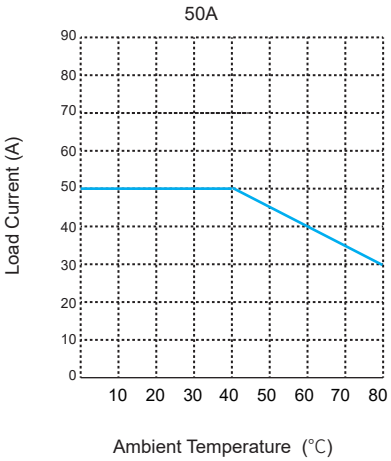
Thermal Derating Curve

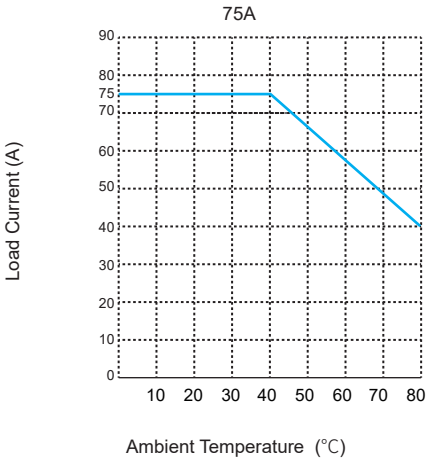






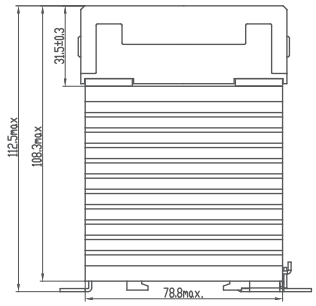


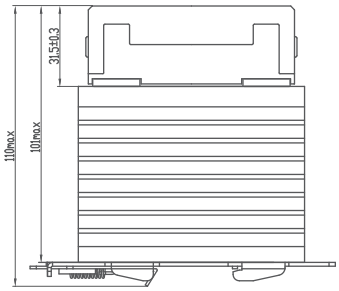


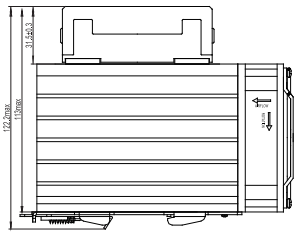


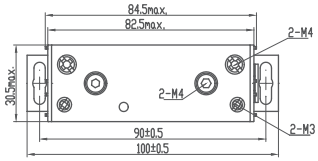
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Outline Dimensions

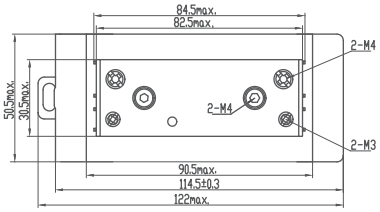




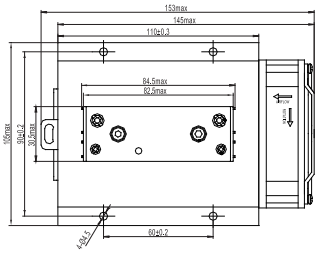




10A-30A SSR



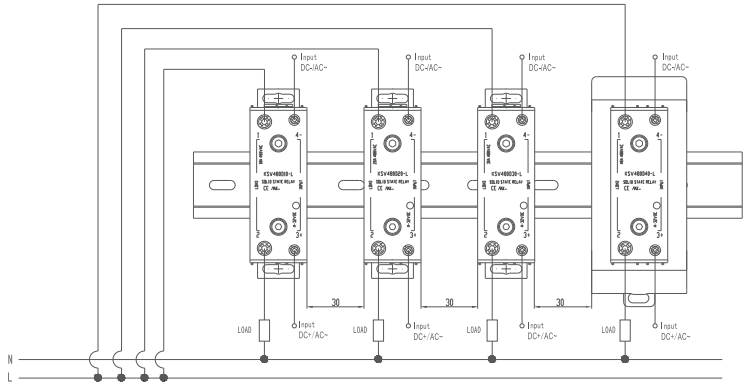
40A SSR



50A/75A SSR

Connection Example

When mounting relays side by side please see recommended minimum spacing below.



General Notes

1. When the operation temperature is high, please consider the derating as per the thermal curve.
2. When connecting wiring to SSR please ensure screws are torqued down to the specs below
3. Please use a suitable screwdriver to mount the relay, please refer to the following requirements:

		INPUT TERMINAL (3, 4)	LOAD TERMINAL (1, 2)
Recommended Torque		0.6N·m	1N·m
Stripping Length		7mm	10mm
Optional Wire	Single Core Cable	1x0.5~2.5mm² 2x0.5~1mm²	2x1.5~6mm²
	Multi-core Cable (with ferrule)	1x0.5~2.5mm² 2x0.5~1mm²	1x1.5~10mm² 2x1.5~6mm²

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