

DESCRIPTION

KS15 is an AC output panel mount type SSR with alternative DC or AC control. The DC input voltage range is 3~12VDC (without LED indicator) or 4~12VDC (with LED indicator). And the AC input voltage offers three options: 24VAC, 110VAC and 220VAC. Five output current ratings from 10A to 40A are available for selection as well as two output voltage options 240VAC and 380VAC. The SSR is epoxy resin encapsulated with built-in RC snubber and it provides photoelectric isolation between input and output with dielectric strength 4000V.

FFATURES

- ◆ Built-in RC snubber circuit
- Photoelectric isolation
- ♦ TRIAC output
- Removable protective cover
- Dielectric strength 4000V
- ♦ Zero-cross or random turn-on
- ♦ Optional LED status indicator

PRECAUTIONS

- 1. Please pay special attention to the actual load current and the ambient temperature when doing the type selection. And the SSR requires proper heat sinking for heat dissipation in full load. For ambient temperature above 40°C, the load current must be derated. Please refer to the curve of Max. Load Current vs. Ambient Temperature for derating.
- 2. The heat produced by the SSR during the working process must be dissipated via the metal base of the SSR. Please coat the SSR metal base with some thermal grease or a thermal pad, and then firmly press the SSR against the heatsink to ensure the full adherence.
- 3. It is recommended to use the matched heatsink made by Keysolu. If the user needs to use the home-made heatsinks, please ensure that the temperature of the SSR base must not exceed 85°C.
- 4. Tighten the SSR screw terminals properly. If the screws are loose, the SSR would be damaged by heat generated from connection. Also excessive screw mounting torque may damage the SSR's internal components. Please refer to the recommended screw mounting torque as follows: the M4 screw mounting torque range is 0.98~1.37N·m, and the M3 screw mounting torque range is 0.58~0.98N·m.
- 5. Please do not use the SSR exceeding the limitation which is specified on this datasheet.

SELECTION GUIDE

KS15 /	D-	24	Z	10	-L	Q	(XXX)
Туре	Control voltage	Load voltage	Switching mode	Load current	LED indicator	Termination	Customer special code
	D: 3 ~ 32VDC	24: 240VAC	Z: Zero-cross	10: 10A	L:	Nil: Screw	
	(Without LED)	38: 380VAC	P: Random	15: 15A	Included		
	4 ~ 32VDC			20: 20A	Nil:	Q: Quick connection	
	(With LED)			25: 25A	Not Included		
	24A: 24VAC			40: 40A			
	110A: 110VAC						
	220A: 220VAC						

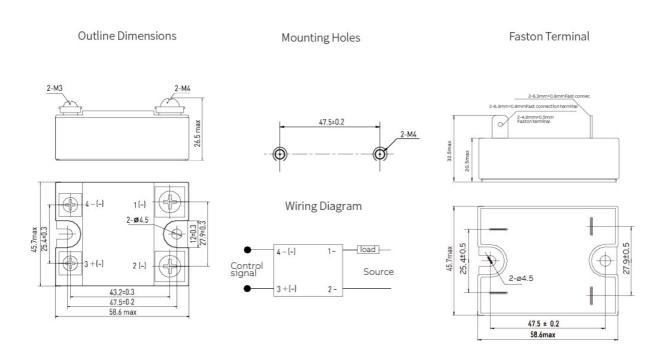
				3~32VDC (w	vithout LED)		
Control voltage range (DC input)				4~32VDC (with LED)			
				000000000000000000000000000000000000000	85 ~ 132 VAC (110V input)		
Control voltage range (AC input)							
Control voltage range (AC input)				175 ~ 264 VAC (220V input)			
				19.2 ~ 28.8 VAC (24V input)			
Must turn-on voltage (DC input)				3VDC (without LED)			
				4VDC (with LED)			
			85VAC (110V input)				
flust turn-on voltage (AC input)				175VAC (220V input)			
				19.2VAC (24V input)			
Aust turn-off voltage (DC input)				1VDC			
		10VAC (110V, 220V input)					
Must turn-off voltage (AC input)		2VAC (24V input)					
		25mA (DC)					
Max. input current		15mA (AC)					
Max. reverse protection voltage (DC input)		-32VDC					
OUTPUT SPECIFICATIONS (Ta = 2	25°C)						
	o-oo10-o	a-aa15-a	o-oo20-o	a-aa25-a	o-oo40-o		
	0-2400		48 ~ 280VAC				
oad voltage range	-38		48 ~ 440VAC				
	0-2400		600Vpk				
Max. transient voltage	o-38oo	o-38oo		800Vpk			
oad current range	0.1~ 10A	0.1 ~15A	0.1~20A	0.1 to 25	0.1 ~ 40A		
Max. I²t (10ms, A²s)	50	112	200	312	800		
Max. surge current (10ms)	100Apk	150Apk	200Apk	250Apk	400Apk		

Max. off-state leakage current	10mA
Max. on-state voltage drop	1.5Vr.m.s.
Max. turn-on time (DC input)	Zero-cross: 1/2 Cycle + 1ms, Random: 1ms
Max. turn-on time (AC input)	30ms
Max. turn-off time	AC Input: 40ms, DC Input:1/2 cycle + 1ms
Min. off-state dv/dt	200V/µs
Min. power factor	0.5

Dielectric strength	2500VAC, 50~60Hz, 1min, input,output/base 4000VAC, 50~60Hz, 1min, input/output
Insulation resistance	1000MΩ (500VDC)
Operating temperature	-30 ~ 80°C
Storage temperature	-30 ~ 100°C
Unit weight	Approx. 70g

OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

Unit: mm



CHARACTERISTIC CURVES

