

DESCRIPTION

KS53 is an AC output panel mount type SSR. It offers 3~32VDC input voltage option and two AC output voltage options 240VAC and 380VAC as well as three output current ratings 10A, 15A and 20A for selection. The SSR provides photoelectric isolation between input and output with dielectric strength 4000V and offers two alternative output switching modes: zero-cross turn-on and random turn-on. KS53 has the built-in RC snubber circuit and is epoxy resin encapsulated.

FEATURES

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

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. 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. The recommended mounting torque range for M3 screw is 0.58~0.98N·m.
- 4. Please do not use the SSR exceeding the limitation which is specified on this datasheet.

SELECTION GUIDE							
KS53 /	D-	24	Z	10	-L	Q	(XXX)
Туре	Control voltage	Load voltage	Switching mode	Load current	LED indicator	Termination	Customer special code`
	D: 3~32 VDC	24: 240V	Z: Zero-cross	10:10A	L: Included	Q: Quick	
		38: 380V	P: Random	15:15A	Nil:	connection	
				20: 20A	Not included	Nil: Screw	

INPUT SPECIFICATIONS (Ta = 25°C)				
Control voltage range	3 ~ 32VDC (Withoout LED)			
control voltage range	4~32VDC (With LED)			
Must turn-on voltage	3VDC			
Must turn-off voltage	1VDC			
Max. input current	25mA			
Max. reverse protection voltage	-32VDC			

OUTPUT SPECIFICATIONS (Ta = 25°C)

	10	a-aa15	20	
Load voltage range	n-24nn	48 ~ 280VAC		
Loud Foliage Fallige	a-38aa			
A.6	o-24oo	600Vpk		
Max. transient voltage	a-38aa		800Vpk	
Load current range (A)	0.1 ~ 10	0.1 ~ 15	0.1 ~ 20	
Max. I²t (10ms, A²s)	78	144	312	
Max. surge current (10ms)	100Apk	150Apk	200Apk	
Max. off-state leakage current		5mA		
Max. on-state voltage drop	1.5Vr.m.s.			
Max. turn-on time	1/2 Cycle + 1ms, Random:1ms			
Max. turn-off time	1/ 2Cycle + 1ms			
Min. off-state dv/dt		200V/µS		

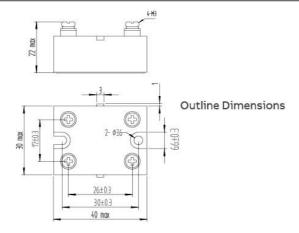
GENERAL SPECIFICATIONS (Ta = 25°C)

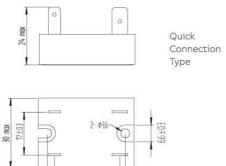
Dielectric strength	2500VAC, 50~60Hz, 1min, Input/output/base		
Dielectric strength	4000VAC, 50~60Hz, 1min, Input/Output		
Insulation resistance	1000ΜΩ (500VDC)		
Operating temperature	-30 ~ 80°C		
Storage temperature	-30 ~ 100°C		
Unit weight	Approx. 35g		

OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

Unit: mm

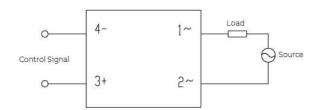




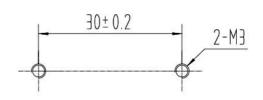


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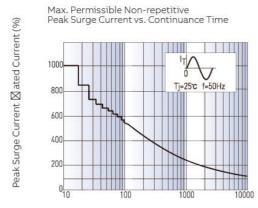
Wiring Diagram



Mounting Holes



CHARACTERISTIC CURVES



Energizing Continuance Time (ms)

Max. Load Current vs. Ambient Temperature (10A)

