KS15

Solid State Relay



Certificate NO.:E365647

Certificate NO.:B130174964006



Certificate NO.: CQC12001085989





Features

- Built-in RC snubber circuit
- Photoelectric isolation
- Triac output
- Removable protective cover avaliable
- Dielectric strength 4000V
- Zero-cross or random turn-on
- Panel mount

Input Parameters(Ta=25°C	In	put	Parame [*]	ters	(Ta=25°C)
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Control voltage range (DC input)	(3~32)VDC (Without LED) (4~32)VDC (With LED)
(DC IIIput)	(4 32)VDG (VVIII1 EED)
Control voltage range	(85 ~ 132)VAC (110V Input)
(AC input)	(175 ~ 264)VAC (220V Input)
((19.2 ~ 28.8)VAC (24V Input)
Must turn-on voltage	3VDC (Without LED)
(DC input)	4VDC (With LED)
Must turn-on voltage	85VAC (110V Input)
(AC input)	175VAC (220V Input)
(/ to input)	19.2VAC (24V Input)
Must turn-off voltage(DC input)	1VDC
Must turn-off voltage	10VAC (110V, 220V Input)
(AC input)	2VAC (24V Input)
Max. input current	25mA (DC)
wax. input current	15mA (AC)
Max. reverse protection	- 32VDC
voltage(DC input)	- 02100

Output Parameters(Ta=25°C)

	10C	15-	□-□□20-□	□-□□25-□	□-□□40-□	
Load voltage	□-24□□	(48 ~ 280)VAC				
range	□-38□□]		(48 ~ 4	140)VAC	
Max. transient	□-24□□ 600Vpk					
voltage	□-38□□	8□□ 800Vpk				
Load current range	0.1 to 10	0.1 to 15	0.1 to 20	0.1 to 25	0.1 to 40	
Max. I ² t(10ms, A ² s)	78	144	312	312	880	
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: 1/2cycle + 1ms,Random: 1ms					
Max. turn-on time (AC input)	30ms					
Max. turn-off time	AC Input:40ms, DC Input:1/2cycle + 1ms					
Min. off-state dv/dt	200V/µs					
Min. power factor	0.5					

GENERAL (Ta=25°C)

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

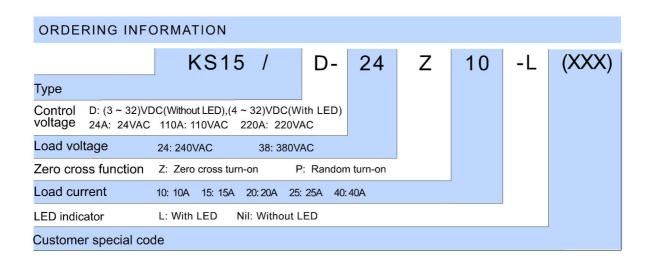
DESCRIPTION

KS15 is a panel-mounted AC Solid State Relay, offer (3~32)VDC or 24VAC, 110VAC, 220VAC input voltage control, with outputs current at 10A, 15A, 20A, 25A or 40A and etc. Load voltage range from 48VAC to 440VAC. The relays provide 4000VAC opto-isolation, between input and output.With built-in RC snubber circuit. Encapsulation,thermally conductive

PRECAUTIONS

- 1. When choosing a SSR, please pay more attention to actual load current and ambient temperature. When the SSR is used for full load operation, we'd better install an adequate heatsink or take other effective cooling measures. When the ambient temperature is high, the load current must be reduced. Please refer to the curve of "Max. Load Current vs Ambient Temperature".
- 2. Apply heat-conducting silicon grease or a thermal transfer pad on the space between SSR and heat sink. Then, screw the heatsink firmly. In that case, it would keep the SSR from damaging by overheat.
- 3.It's recommended to use the matched heatsink by Jinxinrong. If the user needs to use home-made heatsink, it's needed to ensure that the SSR base temperature does not exceed 85°C.
- 4. Tighten the module screw terminals properly. If the screws are loose, the module would be damaged by heat generated from connection. Also excessive screw mounting torque may damage module internal components. Recommended screw mounting torque as follows: M4 screw mounting torque of (0.98~1.37)N • m, M3 screw mounting torque of
- 5. Please do not use the relay beyond the descriptions in the data sheet.

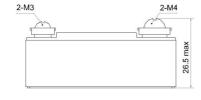




OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

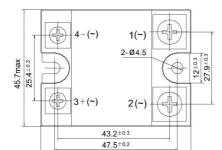
Unit:mm

Outline Dimensions



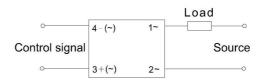
Mounting Holes





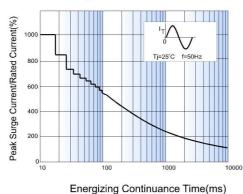
58.6 max

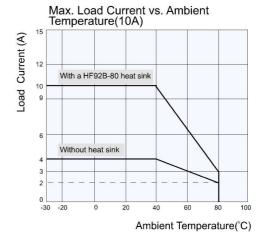
Wiring Diagram



CHARACTERISTIC CURVES

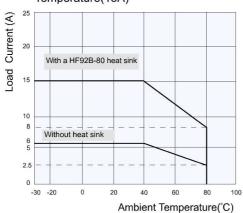
Max. Permissible Non-repetitive Peak Surge Current vs. Continuance Time



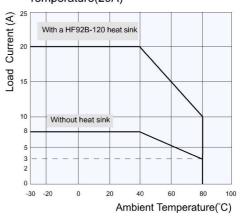


CHARACTERISTIC CURVES

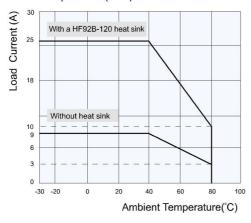
Max. Load Current vs. Ambient Temperature(15A)



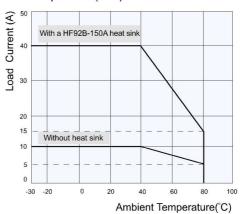
Max. Load Current vs. Ambient Temperature(20A)



Max. Load Current vs. Ambient Temperature(25A)



Max. Load Current vs. Ambient Temperature(40A)



Disclaimer:

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

Jinxinrong could not evaluate all the performance and all the parameters for every possiable application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Jinxinrong for the technical service. However, it is the user's responsibility to determine which product should be used only.