

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 available
- Dielectric strength 4000V
- Zero-cross or random turn-on
- Panel mount

Input Parameters(Ta=25°C)

Control voltage range (DC input)	(3~32)VDC (Without LED) (4~32)VDC (With LED)
Must turn-on voltage (DC input)	3VDC (Without LED) 4VDC (With LED)
Must turn-off voltage(DC input)	1VDC
Max. input current	25mA (DC)
Max. reverse protection voltage(DC input)	- 32VDC

Output Parameters(Ta=25°C)

	<input type="checkbox"/> 10 <input type="checkbox"/> 15 <input type="checkbox"/> 20 <input type="checkbox"/> 25 <input type="checkbox"/> 40
Load voltage range	<input type="checkbox"/> -24 <input type="checkbox"/> (48 ~ 280)VAC
Max. transient voltage	<input type="checkbox"/> -24 <input type="checkbox"/> 600Vpk
Load current range	0.1 to 20
Max. I ² t(10ms, A ² s)	312
Max. surge current (10ms)	200Apk
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
Max. turn-on time (AC input)	30ms
Max. turn-off time	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 epoxy.

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 (0.58~0.98)N · m.
5. Please do not use the relay beyond the descriptions in the data sheet.



ISO9001 ISO14001

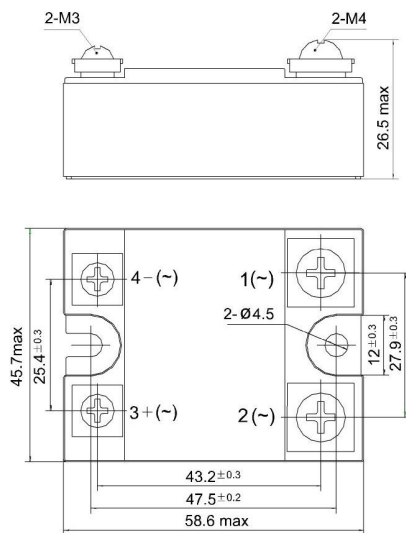
ORDERING INFORMATION

Type	KS15 / D- 24 Z 10 -L (XXX)					
Control voltage	D: (3 ~ 32)VDC(Without LED),(4 ~ 32)VDC(With LED) 24A: 24VAC 110A: 110VAC 220A: 220VAC					
Load voltage	24: 240VAC		38: 380VAC			
Zero cross function	Z: Zero cross turn-on		P: Random turn-on			
Load current	10: 10A 15: 15A		20: 20A 25: 25A		40: 40A	
LED indicator	L: With LED		Nil: Without LED			
Customer special code						

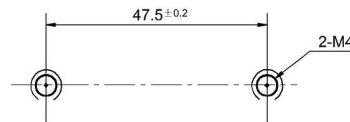
OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

Unit:mm

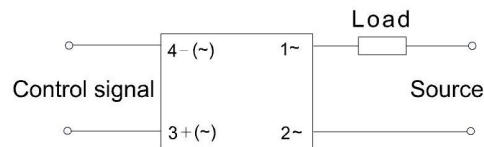
Outline Dimensions



Mounting Holes

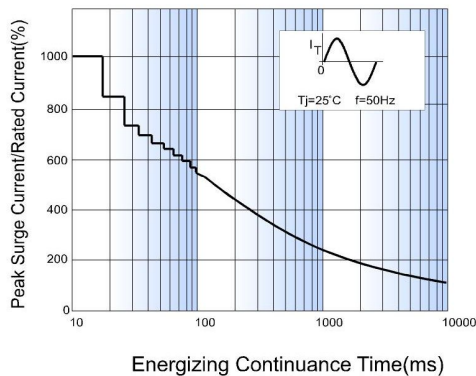


Wiring Diagram

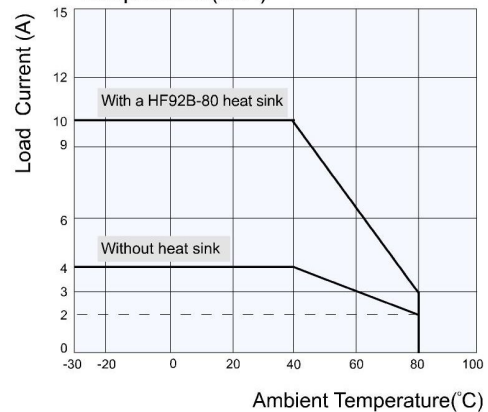


CHARACTERISTIC CURVES

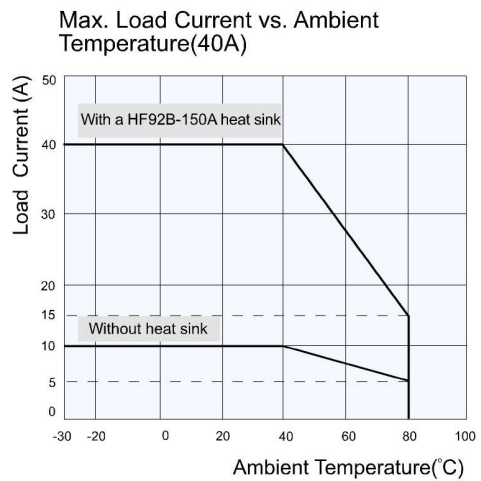
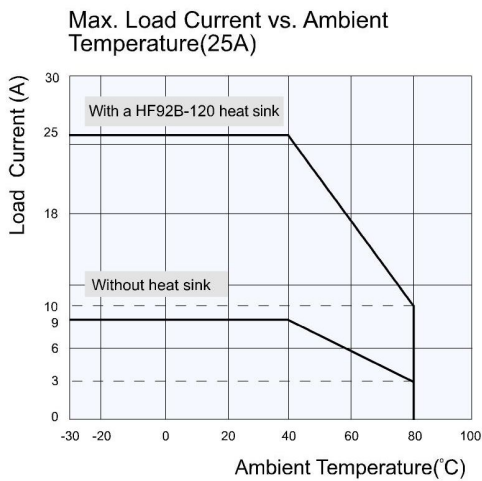
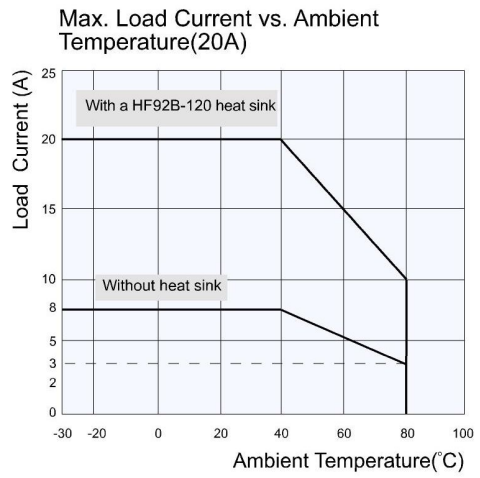
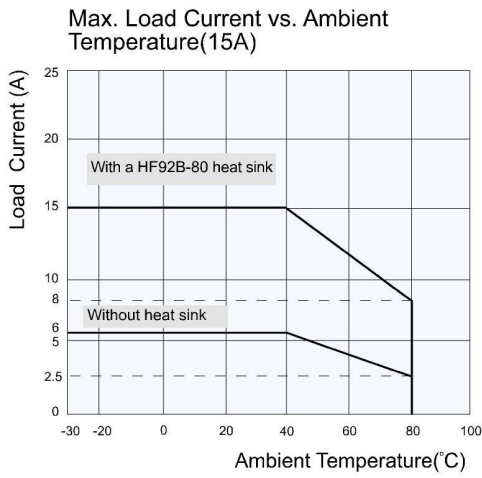
Max. Permissible Non-repetitive Peak Surge Current vs. Continuance Time



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



CHARACTERISTIC CURVES



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 possible 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.