Panel Mount

KS64

Solid State Relay

CE

DESCRIPTION

KS64 is an independently controlled quad output SSR, which has four completely independent TRIAC output integrated in one standard panel mount package. It offers 4~32VDC 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 includes an LED indicator to display working status and provides photoelectric isolation between input and output with dielectric strength 2500V and offers two alternative switching modes: zero-cross turn-on and random turn-on. For the convenience of wiring, the SSR adopts faston terminals. And KS64 is epoxy resin encapsulated with outline dimensions 58.6mmX45.7mmX32mm.

FEATURES

- Four indepent relays in one package
- LED status indicator
- Control voltage 4~32VDC
- Load voltage 240VAC or 380VAC
- Load current 10A, 15A and 20A
- Zero-cross or random turn-on

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. Please do not use the SSR exceeding the limitation which is specified on this datasheet.

SELECTION GUIDE

KS64 /	D-	24	Z	10	N	-L
Type	Control voltage D: 4 ~ 32VDC	Load voltage 24: 240VAC 38: 380VAC	Switching mode Z: Zero-cross P: Random	Load current 10: 10A 15: 15A 20: 20A	RC snubber N: Not included	LED indicator L: Included

INPUT SPECIFICATIONS (Ta = 25°C)

Input voltage range	4~32VDC
Must turn-on voltage	4VDC
Max. input current	25mA
Must turn-off voltage	1VDC
Max. reverse protection voltage	-32VDC

OUTPUT SPECIFICATIONS (Ta = 25°C)

	D-24Z10N-L D-24P10N-L	D-24Z15N-L D-24P15N-L	D-24Z20N-L D-24P20N-L	D-38Z10N-L D-38P10N-L	D-38Z15N-L D-38P15N-L	D-38Z20N-L D-38P20N-L
Load voltage	240VAC			380VAC		
Load voltage range	48 ~ 280VAC			48 ~ 440VAC		
Max. transient voltage	600Vpk			800Vpk		
Load current	10A	15A	20A	10A	15A	20A
Max. surge current (10ms)	100Apk	150Apk	200Apk	100Apk	150Apk	200Apk
Max. I^2t (10ms, A^2s)	50	112	200	50	112	200
Min. load current	0.1A					
Max. off-state leakage current	1mA					
Max. on-state voltage drop	1.5Vr.m.s.					
Min. power factor	0.5					
Max. turn-on time	D-□Z□N□-L: 1/2 Cycle + 1ms, D-□P□N-L: 1ms					
Max. turn-off time	1/2 Cycle + 1ms					
Frequency range	47 ~ 63Hz					
Min. off-state dv/dt	200V/μs					

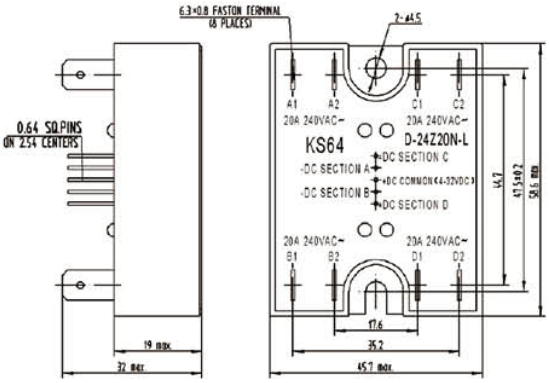
GENERAL SPECIFICATIONS (Ta = 25°C)

Dielectric strength	Input/Output	2500VAC, 50~60Hz, 1min
	Input/Output/Base	2500VAC, 50~60Hz, 1min
Insulation resistance		1000MΩ (500VDC)
Operating temperature		-30 ~ 80°C
Storage temperature		-30 ~ 100°C

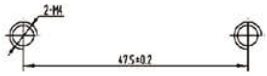
OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES LAYOUT

Unit: mm

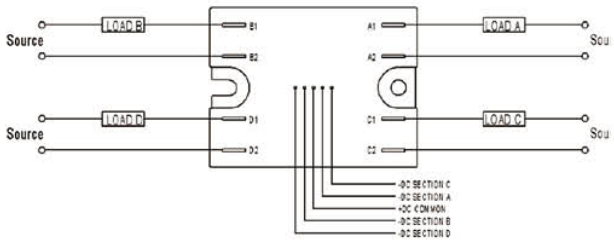
Outline Dimensions



Mounting Holes



Wiring Diagram



CHARACTERISTIC CURVES