

Solid State Relay KSID Series 2 Channel AC Output

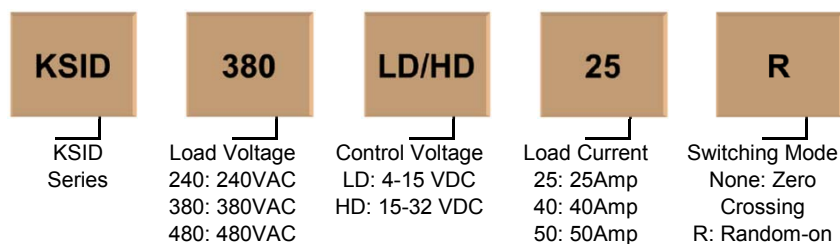


- Zero crossing or random-on
- Load Current: 25A, 40A, 50A @48-530VAC
- SCR output for heavy industrial loads
- DC input
- DBC substrate for superior thermal performance
- Opto-isolation: >4000VACrms
- ROHS compliant

Product Description

KSID series industrial 2 channel relay with SCR output is the most widely used in industry application. The relay can be used for resistive, inductive and capacitive load. The load voltage is 48-530VAC, output current rated 25A, 40A, 50A.

Product Selection



Description	25A	40A	50A
LD:4-15VDC	KSID240LD25	KSID240LD40	KSID240LD50
	KSID240LD25R	KSID240LD40R	KSID240LD50R
	KSID380LD25	KSID380LD40	KSID380LD50
	KSID380LD25R	KSID380LD40R	KSID380LD50R
	KSID480LD25	KSID480LD40	KSID480LD50
	KSID480LD25R	KSID480LD40R	KSID480LD50R
HD:15-32VDC	KSID240HD25	KSID240HD40	KSID240HD50
	KSID240HD25R	KSID240HD40R	KSID240HD50R
	KSID380HD25	KSID380HD40	KSID380HD50
	KSID380HD25R	KSID380HD40R	KSID380HD50R
	KSID480HD25	KSID480HD40	KSID480HD50
	KSID480HD25R	KSID480HD40R	KSID480HD50R

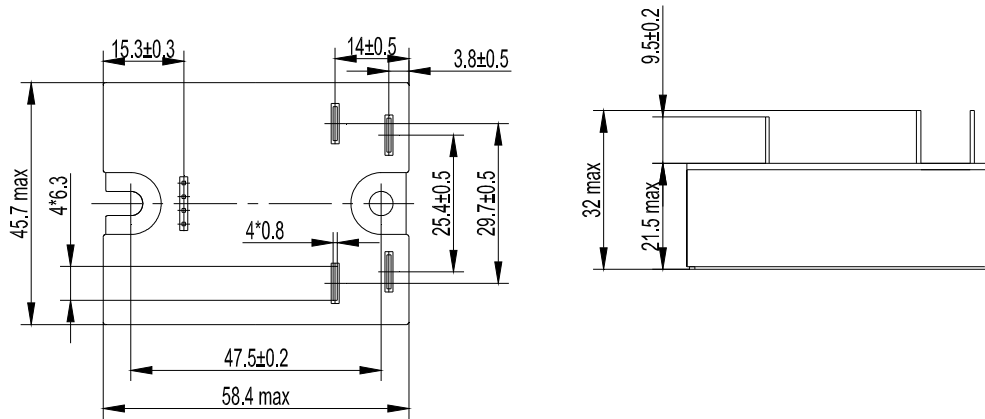
Technical Specification

Input Circuit

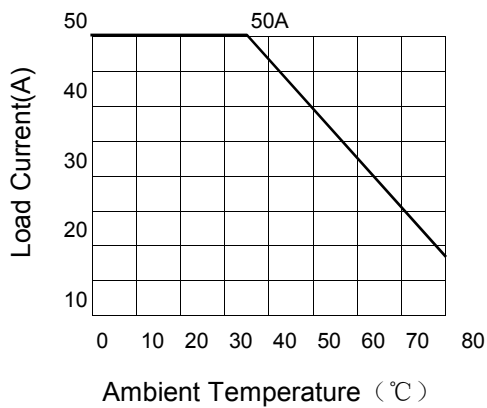
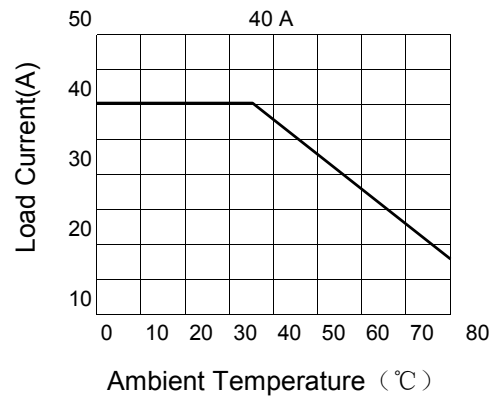
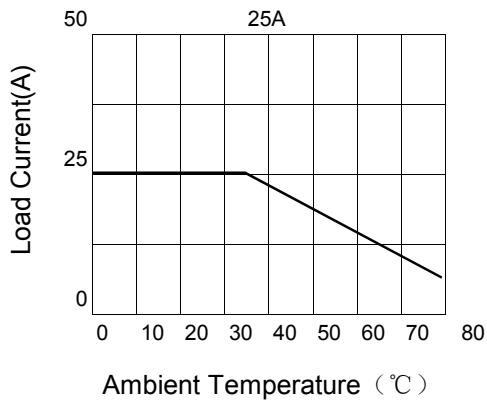
Control Voltage Range	4-15VDC	4-15VDC
	15-32VDC	15-32VDC

Minimum Turn-On Voltage	4-15VDC	4VDC
	15-32VDC	15VDC
Minimum Turn-Off Voltage		1VDC
Maximum Input Current	4-15VDC	50mA
	15-32VDC	20mA
Output Circuit		
Load Voltage Range	240	48-280VAC
	380	48-440VAC
	480	48-530VAC
Maximum Turn-On Time	Random-on	1ms
	Zero Crossing	1/2AC Cycle + 1ms
Maximum Turn-Off Time		1/2AC Cycle + 1ms
Maximum Surge Current [@10 ms]	25A	300A
	40A	600A
	50A	800A
Maximum I ² t [@10 ms]	25A	400A ² s
	40A	1600A ² s
	50A	2800A ² s
Transient Overvoltage	240V	600Vpk
	380V	800Vpk
	480V	1200Vpk
Maximum Off-State Leakage Current [@ Rated Voltage]	240V	5mA
	380V	5mA
	480V	2mA
Maximum On-State Voltage Drop [@ Rated Current]		1.5Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		500V/μs
General Information		
Dielectric Strength [50/60Hz]	Input/Output	≥4000Vrms
	Input, Output/Base	≥4000Vrms
Ambient Operating Temperature Range		-40°C ~ +80°C
Ambient Storage Temperature Range		-40°C ~ +100°C
Weight [typical]		100g
Application		
High-low Temperature Chamber, Plastics Machinery, Incubation Machine, Oiling Machine, HVAC, Elevator, Lighting, Fountain Controller.		

Installation



Thermal Curve



Important Notice

1. When the ambient temperature is over 40°C or many KSID series are installed closely together, the user should take load discount into account according to the thermal curve.
2. If the load current is over 10A, suitable heatsink should be added to the SSR.
3. No RC circuit in 480VAC series.
4. The above parameters are for single channel.

Product Certification



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