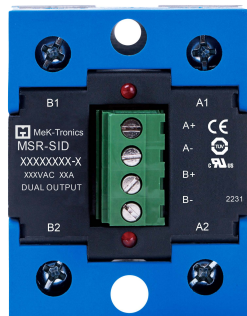


Solid State Relay MSR-SID Series Dual Channel AC Output

Product Data Sheet



- Zero Crossing or Random-on
- Load Current: 25A, 40A, 50A and 75A@24-660VAC
- SCR Output
- DC Input
- ROHS Compliant
- IP20 Safety Cover Protection(Optional)

Product Description

SID series dual channel relay with SCR output is widely used in industry applications. The relay can be used for resistive, inductive or capacitive load. The load voltage is 24-660VAC, output current is rated at 25A, 40A, 50A, and 75A.

Product Selection

MSR	—	SID	480	D	50 ⁽¹⁾	Z	L	-S	P
	Packing: - : Bulk Packing A-Z	SID Series	Load Voltage 240:240VAC 480:480VAC 600:600VAC	Control Voltage Type D:DC Control	Load Current 25: 25Amp 40:40Amp 50:50Amp 75:75Amp	Switching Mode Z: Zero Crossing R: Random- on	Control Voltage L:4-15VDC H:15-32VDC W:4-32VDC	Terminal Type Blank:QC C:QC, input terminal w/ crimp pins S: Screw Terminal, IP20	Thermal Pad Blank: Without P: With thermal pad

Note: (1) Quick connection terminal version is only available for 25 & 40A.

INPUT CIRCUIT (TA=25°C)		
Control Voltage Range	L	4-15VDC
	H	15-32VDC
	W	4-32VDC
Must Turn-on Voltage	L	4VDC
	H	15VDC
	W	4VDC
Must Turn-off Voltage		1VDC
Maximum Input Current	L/W	50mA@15VDC
	H	20mA@32VDC

Solid State Relay MSR-SID Series Dual Channel AC Output

Product Data Sheet

OUTPUT CIRCUIT (TA=25℃)			
Load Voltage Range	240		24~280VAC
	480		24~530VAC
	600		24~660VAC
Maximum Turn-On Time	Random-On		1ms
	Zero Crossing		10ms
Maximum Turn-Off Time			10ms
Maximum Surge Current [@10 ms]	25A		300A
	40A		400A
	50A		500A
	75A		750A
Maximum I²t [@10 ms]	25A		450A²s
	40A		800A²s
	50A		1250A²s
	75A		2812A²s
Transient Overvoltage	240V		600Vpk
	480V/600V		1200Vpk
Maximum Off-State Leakage Current [@ Rated Voltage]			5mA
Maximum On-State Voltage Drop [@ Rated Current]			1.5Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]			500V/μs
GENERAL INFORMATION			
Dielectric Strength, Input/Output[50/60Hz]	Input/Output		4000VACrms
	Input, Output/Base		2500Vrms
Ambient Operating Temperature Range			-30℃ +80℃
Ambient Storage Temperature Range			-30℃ +100℃
Minimum Insulation Resistance			1000MΩ
Weight [Typical]	Quick Connection Terminal		100g
	Screw Terminal (IP20)	25A	150g
		50A	185g
		75A	185g

Solid State Relay
MSR-SID Series
Dual Channel AC Output

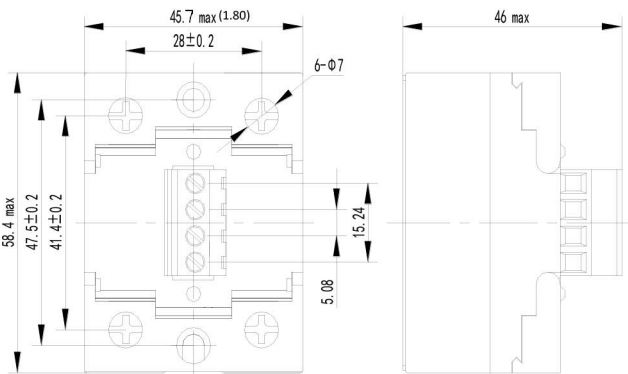
Product Data Sheet

Application

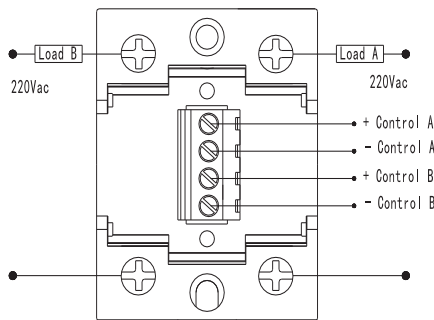
High-low Temperature Chamber, Plastics Machinery, Incubation Machine, Oiling Machine, HVAC, Elevator,Lighting, Fountain Controller.

Installation

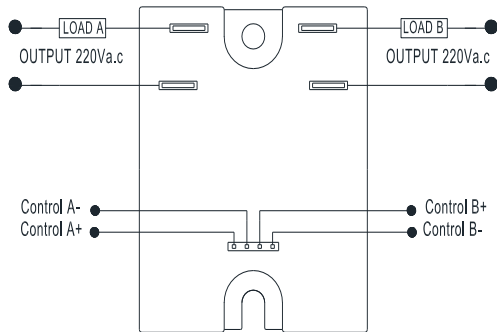
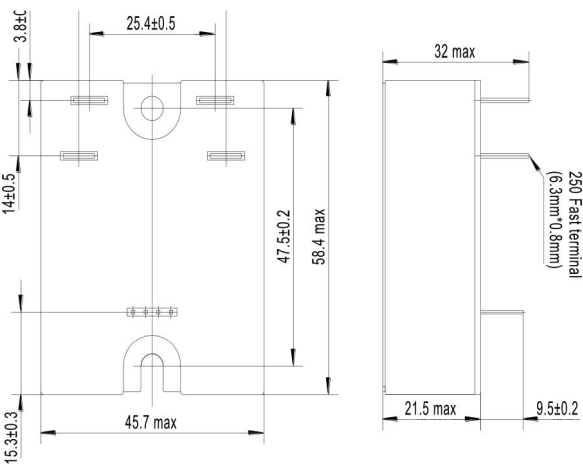
Screw Terminal(IP20)



Connection



Quick Connection Terminal

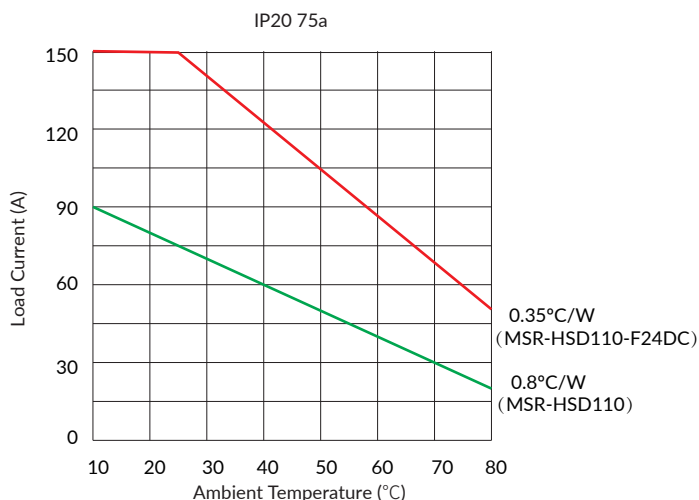
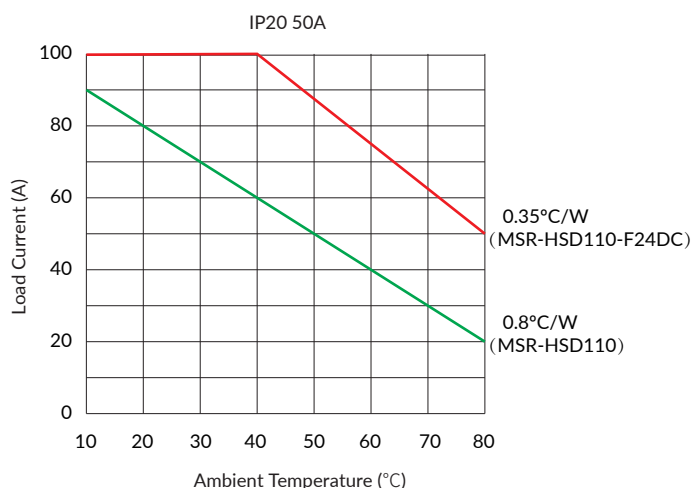
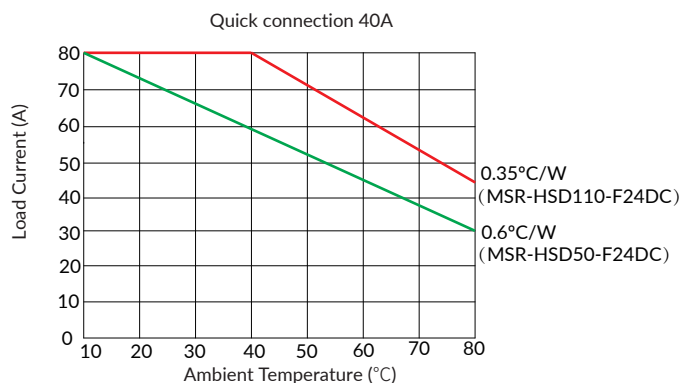
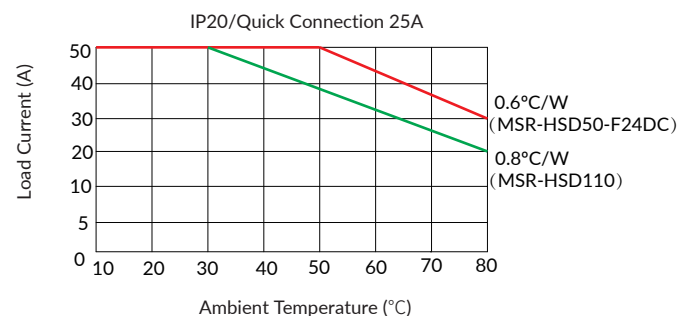


Solid State Relay MSR-SID Series Dual Channel AC Output

Product Data Sheet

Thermal Curve

Note: The following load current curve shows the total current, each channel current cannot exceed 1/2 of the total current.



Important Notice

1. Thermal grease or pad must be applied when mounting the heatsink.
2. The load current must be derated when installing the SSR closely together.

Warnings:

1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.

Product Certification



General Note: (2) Parameters are for single channel only. (3) TUV is only available for IP20 version.

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