

Solid State Relay

ASR-SR Series Single Phase DC



- MOSFET Output @100V
- IGBT Output 300V, 600V
Output Current:100A,160A,200A
- Low on Impedance
- 4-32VDC Control Input
- Opto-isolation
- RoHS Compliant

Product Description

The SR series is single phase DC output printed board mounted solid state relay. Control voltage is 4-32VDC, output current is 200A@100V, 160A@600V; Photoelectric isolation between input and output, dielectric strength 2500VACrms

Product Selection

ASR	—	SR	100	D	200	W	-L
	Packaging -: Bulk Packing Y:Individual	ASR-SR Series	Load Voltage 100: 100VDC 300: 300VDC 600: 600VDC	Control Voltage D:DC Control	Load Current 100: 100 Amp 160: 160 Amp 200: 200 Amp	Control Voltage W: 4-32VDC	LED Indication Blank: Without LED L: With LED

PART NUMBERS ARE AS FOLLOWS			
	100VDC	300VDC	600VDC
100A			ASR-SR100D200W
			ASR-SR100D200W-L
160A		ASR-SR300D160W	
		ASR-SR300D160W-L	
200A	ASR-SR100D200W		ASR-SR600D200W
	ASR-SR100D200W-L		ASR-SR600D200W-L

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Technical Specification

INPUT CIRCUIT (Ta=25°C)		
Control Voltage Range	4-32VDC	
Must Turn-On Voltage	4VDC	
Must Turn-Off Voltage	1VDC	
Maximum Input Current	25mA@32VDC	
Maximum Transient Overvoltage	32VDC	
OUTPUT CIRCUIT (Ta=25°C)		
Line Voltage Range	100VDC	0-100VDC
	300VDC	3-300VDC
	600VDC	3-600VDC
Load Current Range	600A (600V)	0.001-100A
	160A(300V)	0.001-160A
	200A (100V/600V)	0.001-200A
Maximum Surge Current (@10ms)		600A
Maximum Turn-on Time	100V/300V	300μs
	600V	1ms
Maximum Turn-off Time	100V300V	300μs
	600V	1ms
Maximum Off-State Leakage Current (@ Rated Voltage)	100V	0.1mA
	300V/600V	5mA
Maximum On-State Voltage Drop (@ Rated Current)	100V	3.3mΩ max.(@Ta=25°C)
	300V/600V	1.65V
General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	2500Vrms
	Input, output/Base	2500Vrms
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Weight (Typical)	380g	

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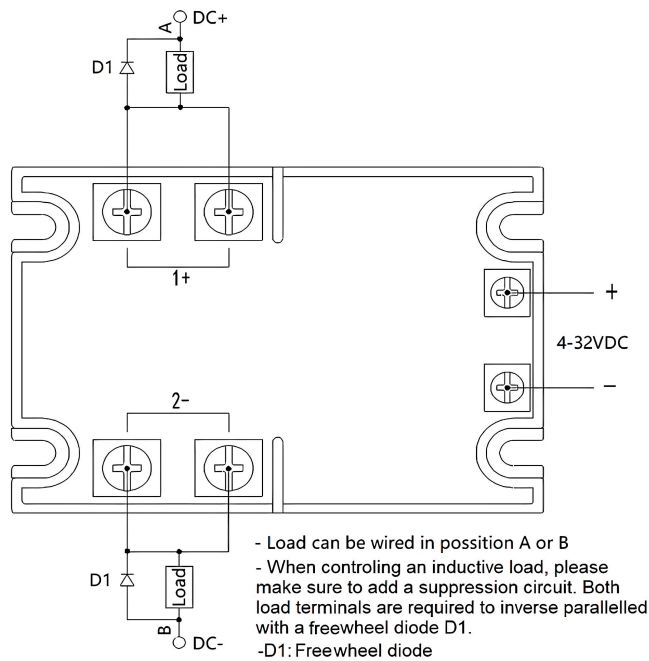
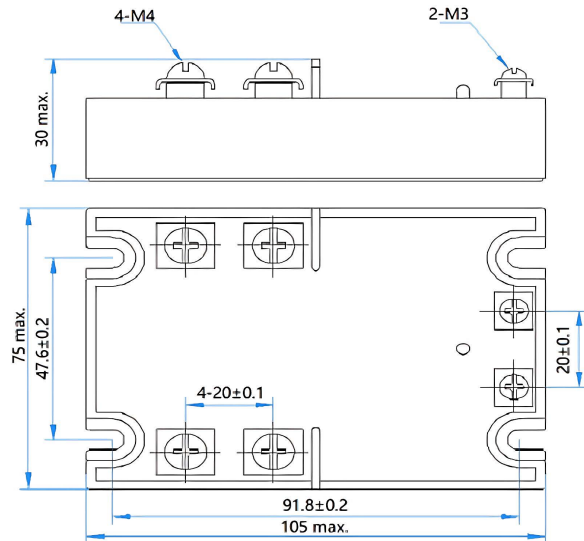
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Application Note:

Suitable for kiln temperature control system and Large oven.

Outline Dimensions/ Wiring Diagram



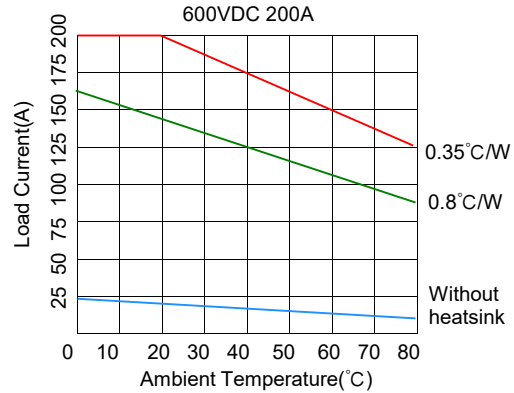
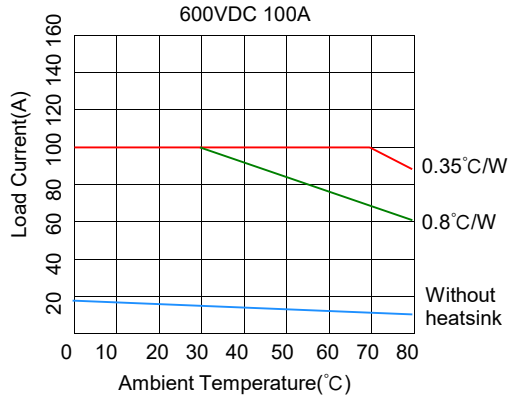
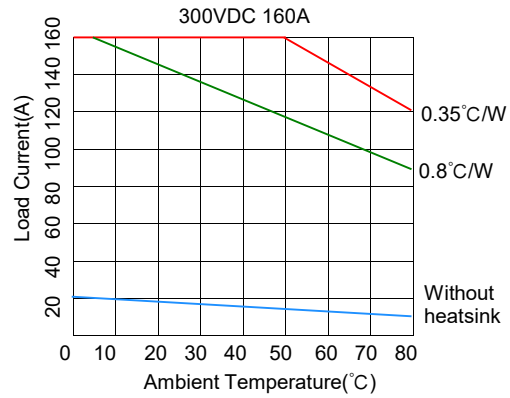
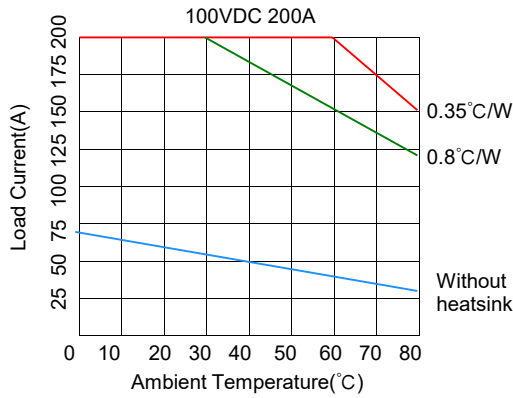
Wiring Diagram

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Thermal Curve



Important Notice

1. Suppression circuit should be added when the relay is used for inductive load.
2. Control polarity shall be correct, otherwise it may damage the product.
3. When the operation temperature is high, or many SR series are installed closely together, the user should take load discount into account according to the thermal curve.

Product Certification

