

Solid State Relay SSR02



The SSR02 Series offers 3-32VDC or 90-280VAC input control, with outputs rated at 40, 50, 60, 70 or 80 Amps. SCR output provides high dv/dt capability more than 500v/us.

All models include an internal snubber. The relays provide 4000Vrms opto-isolation between input and output.

Outline dimensions 58.4mm x 45.7mm x 22.9mm.

- 4000V dielectric strength
- Photo isolation
- Zero cross or random turn-on
- Double SCR AC output
- Panel mount
- DC or AC control



Options and ordering codes

SSR02 -		3	240	40	R	S	L
Input Voltage		3-32VDC					LED Indication
		3					NIL None
		4-32VDC (with LED)					L LED (unavailable for AC input voltage type)
		90					
Output Voltage			240				
			48-280VAC				
			48-400VAC				
			48-530VAC				
Load Current				40			
				40A			
				50A			
				60A			
				70A			
				80A			
Zero Cross Function					R		
					Z		
Output Type					S		
					SCR		

Input

Control voltage range (DC input)	3 to 32VDC
Control voltage range (AC input)	4-32VDC with LED
Control voltage range (AC input)	90 to 280VAC
Must operate voltage (DC input)	3VDC max.
Must operate voltage (AC input)	90VAC
Must release voltage (DC input)	1VDC
Must release voltage (AC input)	10VAC
Max. Input current (DC input)	25mA (at 32 VDC)
Max. Reverse protection voltage (DC Input)	-32VDC

Output

Max. Off-state leakage current (at rated voltage)	5mA
Max. On-state voltage drop (at rated current)	1.7Vrms
Max. Turn-on time	Random turn-on (DC input) 1ms
	Zero cross turn-on (DC input) 1/2 cycles + 1ms
	AC input type 20ms
Max. Turn-off time	DC input 1ms + 1/2 cycle
	AC input 40ms
Min. Off-state (dv/dt)	500V/us

Solid State Relay SSR02 continued...

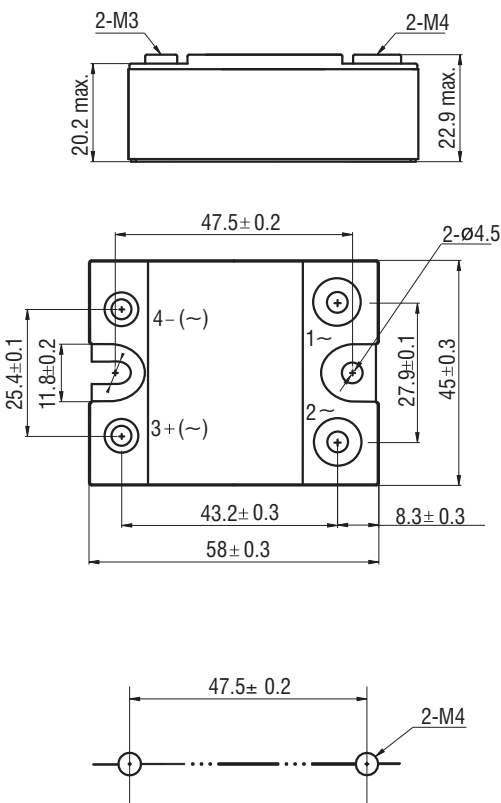


Characteristics

Dielectric strength (at 50/60Hz for 1min)		4000VAC 1min.
Insulation resistance		1000M Ω (at 500VDC)
Ambient temperature	Operating	-30°C to +80°C
	Storage	-30°C to +100°C
Humidity		45% to 85%
Unit Weight		88g

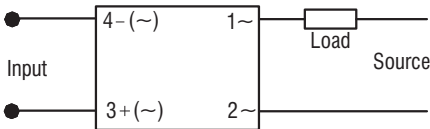
Outline dimensions (mm)

Wiring diagram and Mounting Holes



Screw Size	Recommended tightened torque
M3	0.58 to 0.98 N·m
M4	0.98 to 1.37 N·m

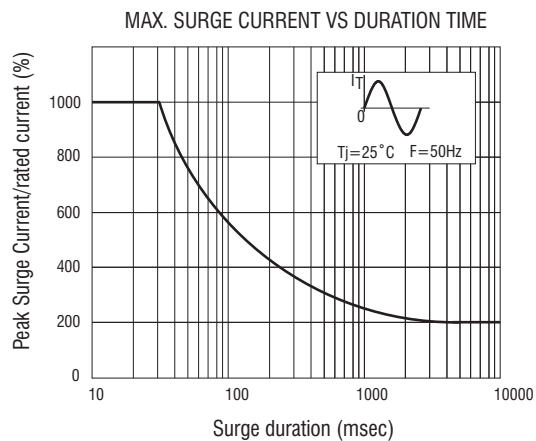
Schematics



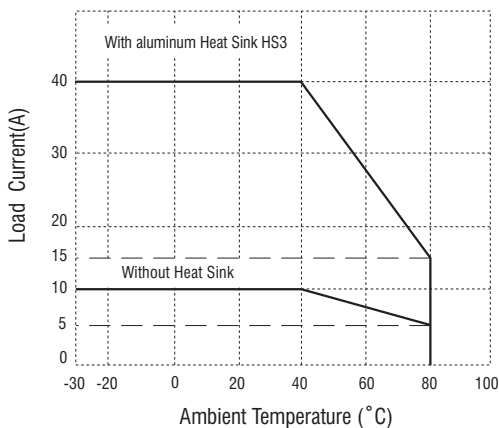
Solid State Relay SSR02



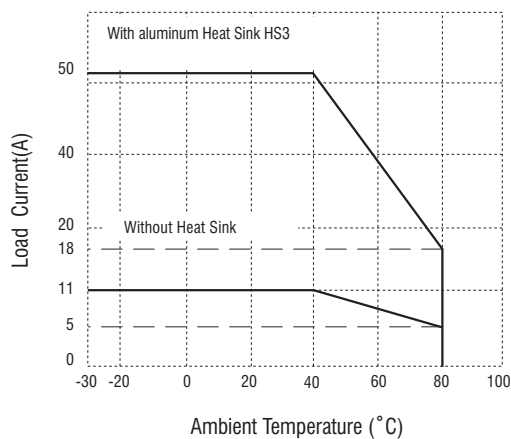
Characteristic Curve



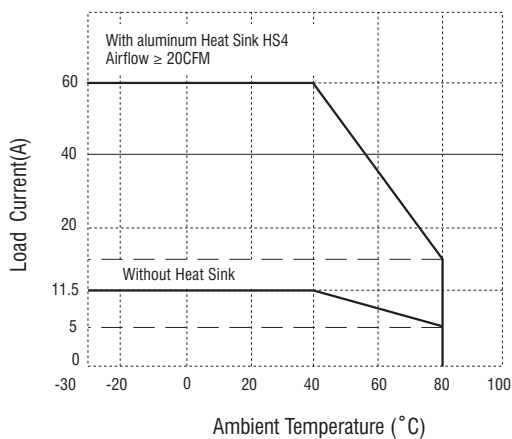
MAX. LOAD CURRENT VS AMBIENT TEMPERATURE. 40A TYPE



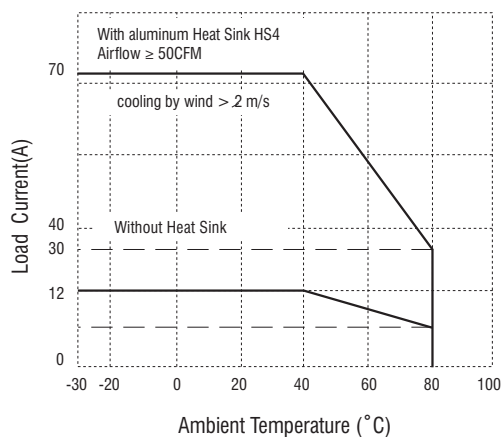
MAX. LOAD CURRENT VS. AMBIENT TEMP. 50A TYPE



MAX. LOAD CURRENT VS. AMBIENT TEMP. 60A TYPE



MAX. LOAD CURRENT VS. AMBIENT TEMP. 70A TYPE



MAX. LOAD CURRENT VS. AMBIENT TEMP. 80A TYPE

