Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau

Item no.: 2527191, 2527192, 2527196

Data Sheet

GSR1-1 Single Phase Solid State Relay (SSR), DC to AC



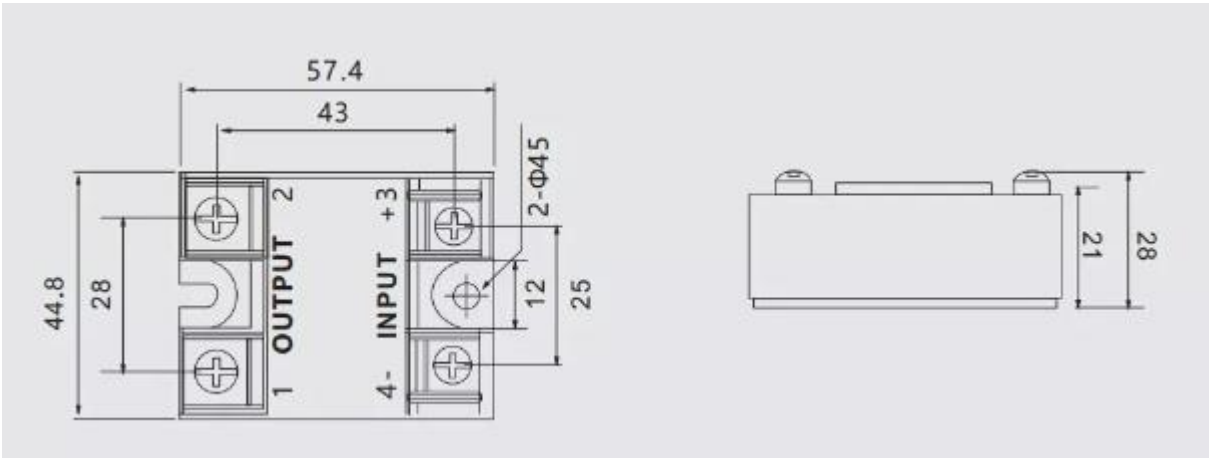
Applications

- Suitable for AC switches & temp control, automated control, CNC machinery, packaging machinery, textile machinery, glass machinery and plastic machinery

Function Features

- Wide output and small control current, less than or equal to 15 mA;
- No mechanical parts, long lifespan and highly reliable
- Fast switching - can switch on with 0 voltage and switch off with 0 current in some applications.
- Low RF interference.
- Built-in resistance capacitance absorption to protect the impact of the product on the starting current.
- Photoelectric isolation between input and output circuits, can withstand voltage of 2500 V
- Compact design and filled with epoxy resin, which is shockproof, moisture-proof and corrosion-proof

Wiring diagram:



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Technical data

	Input Data		
BN	**2527196**	**2527191**	**2527192**
Model no.	**TC-GSR1-1-10DA**	**TC-GSR1-1-40DA**	**TC-GSR1-1-60DA**
Input Voltage range	3-32 VDC		
Min. Input current	5 mA		
Max. Input current	15 mA		
Must operating Voltage	3.5 VDC		
Must releasing Voltage	1.5 VDC		
	Output Data		
Rated current	10 A	40 A	60 A
Rated Voltage	480 VAC		
Peak Voltage	800 VAC		1200 VAC
Insulation Resistance	1000 MΩ / 500 VDC		
Output off Leakage current	≤8 mA		≤2 mA
Output on voltage drop	≤1.5 V		
Delay on & off	n/a		
	General Data		
Dimension	57.4 x 44.8 x28		
Weight	81 g		
Insulation voltage between output and input	2500 V		
Insulation vol. Between output & input and case	4000 V		
Ambient Temperature	-20 - 75°C		
Mounting	screw		

- **Recommendation:** Heat sink is recommended. It can prevent overheating and extend the SSR's service life.

- Solid State Relay with continuous load current less than 5A can choose circuit board installation type.
- Solid State Relay with high power below 10A can be installed with good heat dissipation condition instrument baseplate.
- Heat sinks are required for Solid State Relays of 10A and above. A layer of thermal grease shall be coated between Solid State Relay and the radiator mounting surface.
- When Solid State Relay is continuously used below 30A, natural air cooling can be adopted.
- When the continuous working current exceeds 30A, forced air cooling should be adopted.