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

Item no.: 2527193, 2527194, 2527195

Data Sheet

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



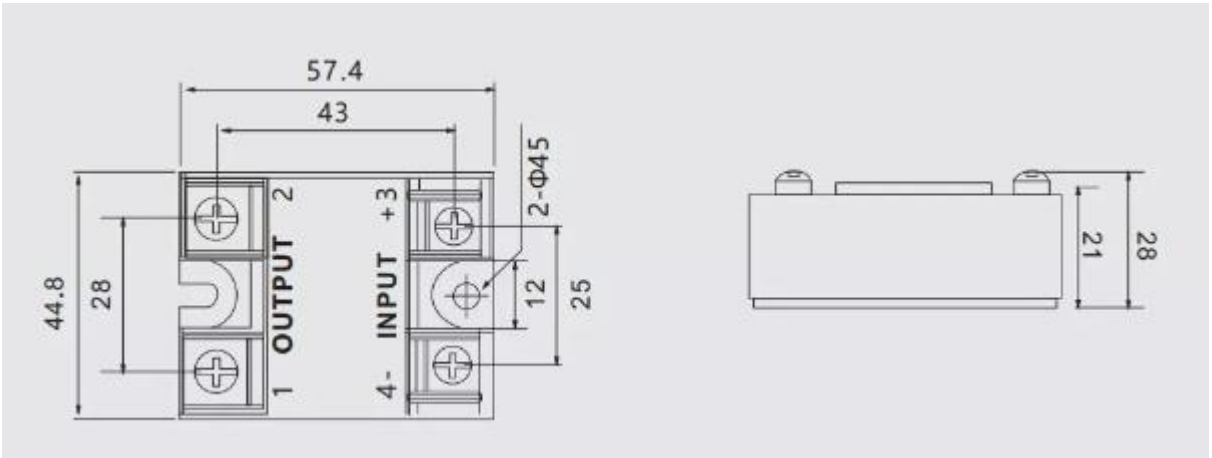
Applications

- Suitable for DC 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	**2527193**	**2527194**	**2527195**
Model no.	**TC-GSR1-1-25DD**	**TC-GSR1-1-40DD**	**TC-GSR1-1-100DD**
Input Voltage range	3-32 VDC		
Min. Input current	5 mA		
Max. Input current	25 mA		
Must operating Voltage	3.5 VDC		
Must releasing Voltage	1.5 VDC		
	Output Data		
Rated current	25 A	40 A	100 A
Rated Voltage	220 VDC		
Peak Voltage	220 VDC		
Insulation Resistance	500 MΩ / 500 VDC		
Output off Leakage current	≤2 mA		
Output on voltage drop	≤2 V		
Delay on & off	≤10 ms		
	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.