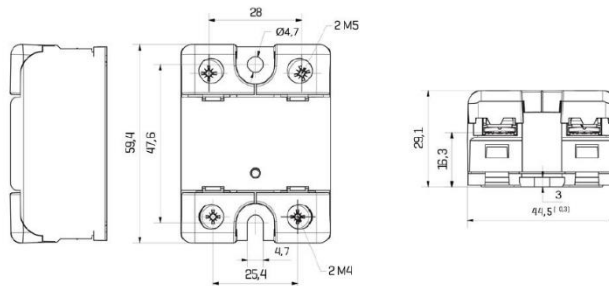
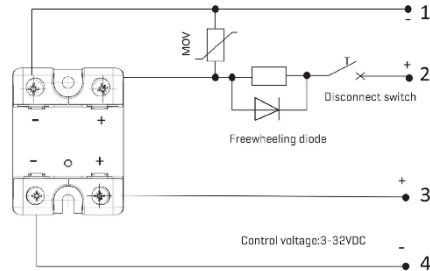


Data Sheet

VSR-8 Single Phase Solid State Relay (SSR), DC to DC



• Unit:mm

Applications

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

Function Features

- Optical isolation between input and output circuits
- Control signal and TTL logic interface
- Transistor output, small on-state voltage drop, fast switching speed
- Rating of 25 A, 40 A and 100 A
- Output voltage of 0 – 250 VDC
- Control voltage of 3 – 32 VDC
- Integrated IP20 touch-safe removable covers
- Dielectric strength 2500 Vrms
- LED input status indicator

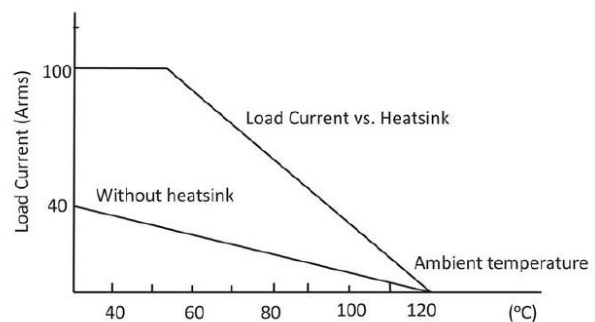
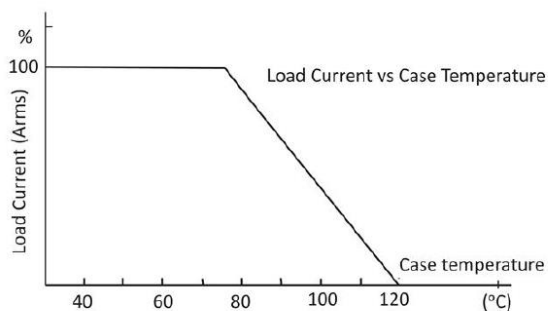
Item no.: 3176342, 3176343, 3176344

Data Sheet

Technical data

Input Specifications			
Item No.	3176342	3176343	3176344
Model no.	TC-VDR8-25DD25	TC-VDR8-40DD25	TC-VDR8-100DD25
Input Voltage range	3-32 VDC		
Input current (Max.)	4 - 30 mA		
Must operating Voltage	3 VDC		
Must releasing Voltage	1 VDC		
Reverse voltage (Max.)	-6 VDC		
Output Specifications			
Load current range	0.05 - 25 Arms	0.05 - 40 Arms	0.1 - 100 Arms
Surge current 10 mSec (Max.)	200%		
Load voltage range	250 Vrms		
Operating frequency range	47 - 63 Hz		
On-state voltage drop	≤0.5 - 4.6 Vrms		
Off state voltage	250 Vrms		
Overvoltage protection	Transient protection voltage: 300 V		
Switching Characteristics	Mos or IGBT-solid-state non-contact switching characteristics		
General Specifications (Ta = 25°C)			
Dielectric strength, Input to Output (50/60 Hz)	2500 Vrms		
Dielectric strength, Input to Output to base (50/60 Hz)	2500 Vrms		
Min. insulation resistance (@500 VDC)	10 ⁹ Ω		
Safety factor of load current	2.5 - 3 times for resistive load, 3 - 6 times for inductive load		
Ambient operating temperature	-30 - 80°C		
Ambient storage temperature	-30 - 100°C		
Humidity per IEC60068-2-78	95%		
LED input status indicator	Red		
Baseplate material	Copper		
Weight	120 g		

Thermal derating curve



Data Sheet

- **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.

English:

Danger - hazardous voltage - will cause electric shock, serious injuries or death. Installation and maintenance work on this product may only be carried out by an authorized electrician. Disconnect the electrical system and the product from the power supply before starting work.

German:

Achtung, gefährliche Spannung - kann zu elektrischem Schlag, Verletzungen oder Tod führen. Installations- und Wartungsarbeiten an diesem Produkt dürfen nur durch eine autorisierte Elektrofachkraft durchgeführt werden. Vor Beginn der Arbeiten elektrische Anlage und das Produkt spannungsfrei schalten.