

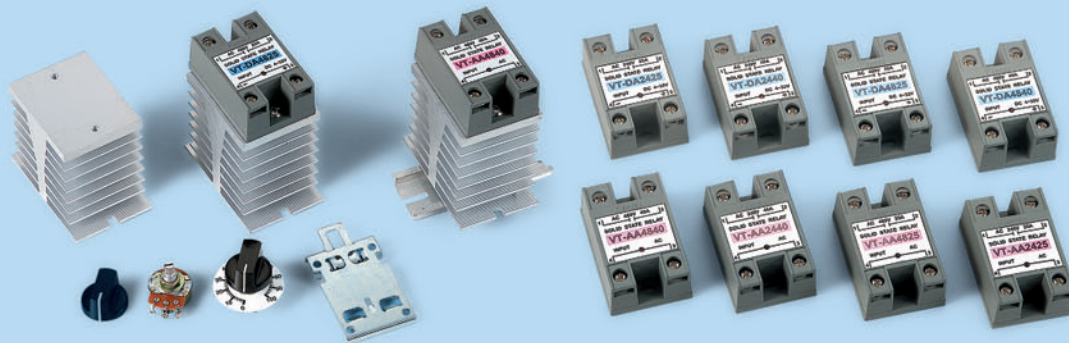


## Solid State Relay

### Feature:

- ▶ Control signals of 4~32 Vdc, 90~250 Vac or resistance potentiometer.
- ▶ 25 amps or 40 amps load switching.
- ▶ 250Vac & 480 Vac line voltage ratings.
- ▶ Zero voltage Turn-on.

- ▶ Zero Current Turn-off.
- ▶ Built-in Snubber Circuit Protection.
- ▶ "LED" Indicating Control Signal Status.
- ▶ Low Leakage.
- ▶ DIN Rail & Panel Mount Heat Sinks Available.
- ▶ Low Input current. ( 7 mA (Max) @ 32 Vdc )
- ▶ CE Approval.



Input Specifications			
	DC Input	AC Input	Potentiometer Input
Input range	4~32 Vdc	90~280 Vrms	500 K ohms
Max. Turn-On Voltage	4.0 Vdc	80 Vrms	-*
Min. Turn-Off Voltage	3.5 Vdc	60 Vrms	-*
Input Current	7 mA @32Vdc	0.6mA @240 Vrms	-*

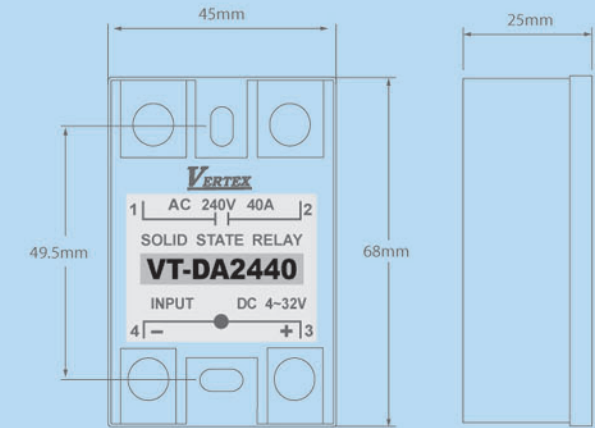
Output Specifications				
Model numbers	DA2425, (DA4825) AA2425, (AA4825)	DA2440, (DA4840) AA2440, (AA4840)	VA1225 (VA2425)	VA1225 (VA2425)
Operating voltage (50/60Hz)	90~280 (90~530) V(rms)	90~280 (90~530) V(rms)	120( 240) V(rms)	120( 240) V(rms)
Max. Load current @ 25°C ambient temperature	25 A(rms)	40 A(rms)	25 A(rms)	40 A(rms)
Min. Load current	0.1 A(rms)	0.1 A(rms)	0.1 A(rms)	0.1 A(rms)
Max. Surge peak on-state current (16.7ms)	260 A	420 A	260 A	420 A
Max. On-state voltage drop @ rated current	1.6 V	1.6 V	1.6 V	1.6 V
Max. Off-state leakage current @ rated voltage	3mA(rms)	5mA(rms)	3mA(rms)	5mA(rms)
Min. Off-state dv/dt @ Max. Read voltage	1000 V/μsec	1000 V/μsec	1000 V/μsec	1000 V/μsec
Transient overvoltage	800 V	800 V	800 V	800 V
I <sup>2</sup> t for fusing	340 A <sup>2</sup> s	880 A <sup>2</sup> s	340 A <sup>2</sup> s	880 A <sup>2</sup> s
Max. Turn-On time	1/2 Cycle*	1/2 Cycle*	1/2 Cycle*	1/2 Cycle*
Max. Turn-Off time	1/2 Cycle*	1/2 Cycle*	1/2 Cycle*	1/2 Cycle*

\* Not available for potentiometer input type.

General Specifications	
Isolation voltage (AC, 1 minute)	5000 V(rms)
Isolation resistance (Min.) @500VDC	10 <sup>12</sup> Ω
Max. Capacitance input/output	0.8pF
Ambient operating temperature range	-40~80°C
Ambient storage temperature range	-40~125°C
status indicating display	Red LED indicator

Mechanical Specifications	
Weight	110g
Encapsulation	Thermally conductive epoxy

All dimensions are in millimeter



### Accessory Options

#### Heat Sink (Part No.GS-\_\_\_)

Vertex Heat Sinks offer excellent thermal management and are perfectly matched to the load current ratings of Vertex's solid state relay.

Part No.	GS-200 (83mm*68mm*200mm)
GS-050 (83mm*68mm*50mm)	GS-250 (83mm*68mm*250mm)
GS-150 (83mm*68mm*150mm)	GS-300 (83mm*68mm*300mm)

#### Din Rail Bracket (Part No.GS-S-L)

Din rail bracket combined with Vertex heat sink make it possible to convert panel mount type to din rail mount type.

### Ordering Information

Input	Code	Line voltage	Code	Line current	Code
4~ 32 VDC input	DA	90~280 VAC	24	25A	25
90~280VAC	AA	90~530VAC	48	40A	40
500K ohms potentiometer input	AA	120 VAC	12	25A	25
		240VAC	24	40A	40