



Features:

- Load voltage, single phase 220Vac/380Vac 50/60HZ
- Compatible with 0-5Vdc, 0-10Vdc, 4-20mA, potentiometer at the same time
- Load options, from 10~200 amps
- Buffer circuit are built inside the unit to protect surge on the SCR
- Input and output indicators available on the panel for process indication
- All model with the same physical sizes
- Phase angled firing mode
- Black fire retardant housing with resin seal
- The unit mainly used for resistive load

Technical Specifications

Ordering Information

MS-**1**-**2**-**3**-**4**-**5**

1: Type of solid state relay

1 Single phase input/output isolated SCR power regulator

2: Control mode

VD Single phase SCR power regulator works with all inputs, 0-10Vdc, 4-20mA, 0-5Vdc, potentiometer

3: Power source for SCR and load for SCR

220 220Vac load 50/60HZ, 220Vac load and 220Vac source
380 380Vac load 50/60HZ, 380Vac load and 380Vac source

*The input and output of this SCR is optical isolated, the load of this SCR is 0~220Vac, or 0~380Vac, the power supply for the unit itself must use the same source as the load. for a 220Vac load, the source for the unit itself will be 220Vac, for a 380Vac load, the source for the unit itself will be 380VAC.

4: Load amps

| | |
|------------|----------|
| 10 | 10 amps |
| 25 | 25 amps |
| 40 | 40 amps |
| 60 | 60 amps |
| 80 | 80 amps |
| 100 | 100 amps |
| 120 | 120 amps |
| 200 | 200 amps |

5: Function code

P Code "P" standards for high accuracy isolated SCR power regulator

Remark: MS-1VD2240P, multiple input single phase SCR power regulator 40 amps, 220Vac source, load 0~220Vac

Note: Heatsink and cooling fans must be purchased separately

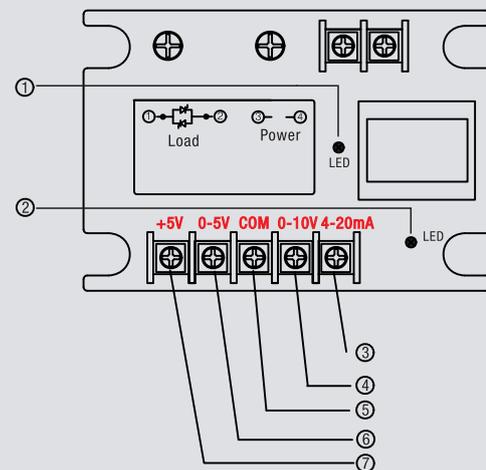
Guidelines on the selection and usage of this voltage regulator

- 1) Current rating, as a general rule consider using the relay at no more than 50% of its rated current for resistive load such as a heater, lamps etc.
- 2) Heatsinks must always be installed together with the SSR regardless of the load amps, natural convection cooling might be sufficient in some cases depends on the site situation, force air cooling must be taken into consideration under harsh conditions (contact our sales team for more info)
- 3) Fast fuse must be installed in the system to protect overload on the SSR
- 4) Silicon rubber pad or silicon compound must be applied to the bottom of the SSR to help the heat radiation
- 5) Our SCR is 220Vac/380Vac load type, this is suitable for multiple line voltage the load and source voltage must be specified when order with us
- 6) This item is suitable for resistive load or very small inductive load
- 7) The screw for the input terminals has to be fastened securely, otherwise extra heat will be generated and accumulated on the screw and result the damage on the SCR
- 8) Control cabinet should have sufficient air flow, which means air flow in and out

Size and dimensions



Panel description and indicator layout



- ① This is the indicator for input & output, the brightness of the indicator represents the input/output value, the indicators became brighter if the input/output increase, otherwise it gets darker when input/output decrease
- ② Power supply indication, this indicator will light on as long as you have 220Vac or 380Vac power supply, this indicator tells you if the 220Vac or 380Vac has been feeded to the unit or not
- ③ Positive terminals for 4-20mA input
- ④ Positive terminals for 0-10Vdc input
- ⑤ Negative terminals for 0-10V, 0-5V and 4-20mA
- ⑥ Positive terminals for 0-5Vdc input
- ⑦ Internal +5Vdc source for potentiometer input

Connection diagram

