



## Features:

- Potentiometer input solid state relay
  - 0-470K ohm, 0-500K ohm or 0-1000K ohm potentiometer
  - load amps, 10~120 amps
  - Load 24~380Vac
  - LED process indication
  - Panel mount
  - Continuous trigger mode
  - All models with the same physical size
  - Fast response and no noise
- Black housing
  - Terminal type
  - Compact size
  - 0-470 K ohm/0-500 K ohm for 220Vac load
  - 0-1000 K ohm for 380Vac load
  - Same item for both 220Vac/380Vac load by using different potentiometer

## Technical Specifications

### Ordering Information

MS-1-2-3-4

#### 1: Type of solid state relay

1 Single phase voltage regulator

#### 2: Control mode

VR Potentiometer input solid state relay

#### 3: Load voltage

38 24~480Vac 50/60HZ

#### 4: Load amps

10	10 amps
25	25 amps
40	40 amps
60	60 amps
80	80 amps
100	100 amps
120	120 amps

eg: MS-1VR3840, potentiometer input regulator, 40 amps  
MS-1VR38100, potentiometer input regulator, 100 amps

### 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 SSR is 480Vac load type, this is suitable for multiple line voltage system including 220V/380V to maximum 480Vac
- 6) This item is only suitable for a resistive load application

### Technical Specifications

#### Electrical Specifications

Load voltage	24-480Vac
Control input	0-470 K ohm/0-500 Kohm/0-1000 Kohm
Off state leakage current	<12mA
Load options	10~120 amps
Dielectric strength	input,output/ base > 2500V rms
Isolation	input and output non-isolated

#### Mechanical and environmental specifications

Operating Temperature Range	-20 C~+80 C
Storage Temperature Range	-40 C~+100 C
Weight (g)	100g+/- 10g

### Size and dimension



### Certificates



### Packing information

Individual box for each pcs  
10 pcs in a secondary box  
200 pcs per master carton

## Accessories

The primary supporting unit for solid state relay is heatsinks, heatsinks has a lot of options in terms of mounting method, size and shape, below is a reference table to help you select the suitable heatsink for MS-1VR38XX series, another accessories would be potentiometer and knobs as well as the scale plate

ITEM NO	SIZE(mm)	Compatible SSR	Mounting method
MW-I-50	60x50x50	10A/25A	Panel mount or direct Din rail mount
MW-W-70	70x100x50	40A	Panel mount only
MW-W-100	100x100x50	60A	Panel mount only
MW-H-55	55x80x80	40A	Panel mount or Din rail mount
MW-T-80	80x80x70	80A/100A/120A	Panel mount or Din rail mount
MW-DE-50	50x94x80	80A/100A/120A	Panel mount or Din rail mount
MW-E-52	52x74x40	40A	Panel mount or Din rail mount
MW-DT-50	50x100x96	60A	Panel mount or direct Din rail mount

## Images and size



Model: B504  
0- 500 K  
For 220Vac application



Model: B105  
0- 1000 K  
For 380Vac application



Model: WTH118-2W-B470K-20S  
0- 470K  
For 220Vac application



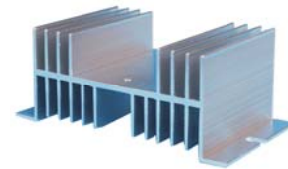
Model: WTH118-2W-B1000K-20S  
0- 1000K  
For 380Vac application



Model: RN99D-A03 AX  
With fixing screw



Model: MW-I-50  
Size: 60mm\*50mm\*50mm  
For 10 amps/25 amps SSR  
Mounting method: Panel mount or din rail mount directly



Model: MW-W-70  
Size: 70mm\*100mm\*50mm  
For 40 amps SSR  
Mounting method: Panel mount

MW-W-70 and MW-W-100 looks like the same only difference is the length



Model: MW-W-100  
Size: 100mm\*100mm\*50mm  
For 60 amps SSR  
Mounting method: Panel mount



Model: MW-H-55  
Size: 55mm\*80mm\*80mm  
For 40 amps SSR  
Mounting method: Panel mount or din rail mount with din rail adaptor



Model: MW-E-52  
Size: 52mm\*74mm\*40mm  
For 40 amps SSR  
Mounting method: Panel mount or din rail mount with din rail adaptor



Model: MW-DT-50  
Size: 50mm\*100mm\*96mm  
For 60 amps SSR  
Mounting method: Panel mount or din rail mount directly

Model: MW-T-80  
Size: 80mm\*80mm\*70mm  
For 80amps,100amps,120amps  
Mounting method: Panel mount or din rail mount with din rail adaptor



Model: CLM-1  
Din rail clamp  
Can be attached to below model and convert the unit to din rail mount type  
MW-H-55  
MW-T-80  
MW-E-52