



## Features:

- DC to AC, AC to AC Single Phase Solid State Relay
- 3.2-32Vdc input for DC to AC, 90~280Vac input for AC to AC
- Load amps, 10~120 amps
- Load 24~480Vac
- LED process indication
- Panel mount
- Zero-crossing trigger
- All models with the same physical size
- Fast response and no noise
- Black housing
- Terminal type
- Compact size
- Built-in RC Snubber for all amps
- 10, 25, 40 use TRIAC, 60 and above use back to back SCR
- Using top quality TRIAC and back to back SCR
- Units completely sealed with resin to have maximum isolation

## Ordering Information

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

### 1: Type of solid state relay

**1** Single phase solid state relay

### 2: Input configuration

**DA** DC input, range 3.2-32Vdc  
**AA** AC input, range 90~280Vac

### 3: Load voltage

**48** 24~480Vac 50/60Hz

### 4: Load current

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

eg: MS-1DA4840, for DC to AC 40 amps 480Vac relay  
 MS-1AA48100, for AC to AC 100 amps 480Vac relay

## Guidelines on the selection and usage of a solid state relay

- 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, considering using the relay at no more than **10%** of its rated current for inductive load, such as a motor, in this application, the relay only can be used to control the start and stop of the motor, not reverse of the motor
- 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 110V/220V/380V to maximum 480Vac
- 6) This is a normally open SSR, with no control input, the relay output is non-conducting, some specific types of SSR have a normally closed output, this needs to be specified before order
- 7) Our relay can only be used for resistive load or inductive load, capacitive load is not suitable

## Application

High-low temperature chamber, heaters, plastic machinery, incubation machine, Oiling machine, HVAC, Elevator control Lighting, Fountain controller

## Technical Specifications

### Electrical Technical Features (For DC to AC type)

|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Load Voltage                                         | 24~480Vac                       |
| Control Voltage                                      | 3.2-32Vdc                       |
| Minimum turn-on voltage                              | 3.2Vdc                          |
| Minimum turn-off voltage                             | 1Vdc                            |
| Maximum input current                                | 25mA                            |
| Maximum turn-on time                                 | 10ms                            |
| Maximum turn-off time                                | 10ms                            |
| Maximum Off-state Leakage Current [ @ Rated Voltage] | 5mA                             |
| Maximum On-state Voltage Drop [ @ Rated Current]     | 1.6Vrms                         |
| Minimum Off-state dv/dt [ @ Maximum Rated Voltage]   | 500V/μs                         |
| Dielectric Strength [50/60Hz]                        | input/output ≥ 3500Vrms         |
| Dielectric Strength [50/60Hz]                        | input, output / base ≥ 2500Vrms |
| Transient Overvoltage                                | 1200Vpk                         |

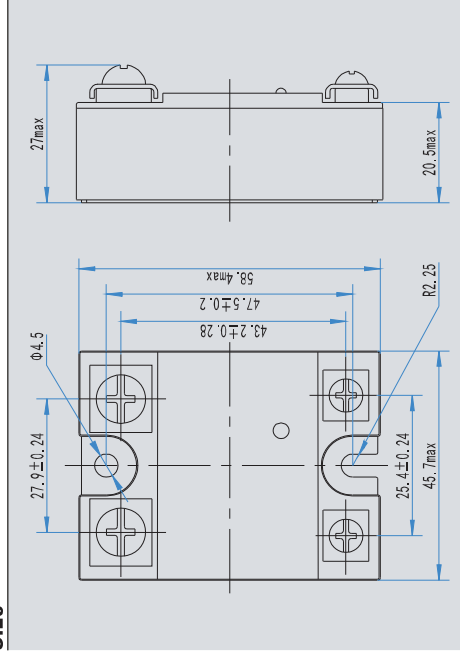
### Electrical Technical Features (For AC to AC type)

|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Load Voltage                                         | 24~480Vac                       |
| Control Voltage                                      | 90~280Vac                       |
| Minimum turn-on voltage                              | 90Vac                           |
| Minimum turn-off voltage                             | 10Vac                           |
| Maximum input current                                | 10mA                            |
| Maximum turn-on time                                 | 40ms                            |
| Maximum turn-off time                                | 40ms                            |
| Maximum Off-state Leakage Current [ @ Rated Voltage] | 5mA                             |
| Maximum On-state Voltage Drop [ @ Rated Current]     | 1.6Vrms                         |
| Minimum Off-state dv/dt [ @ Maximum Rated Voltage]   | 500V/μs                         |
| Dielectric Strength [50/60Hz]                        | input/output ≥ 3500Vrms         |
| Dielectric Strength [50/60Hz]                        | input, output / base ≥ 2500Vrms |
| Transient Overvoltage                                | 1200Vpk                         |

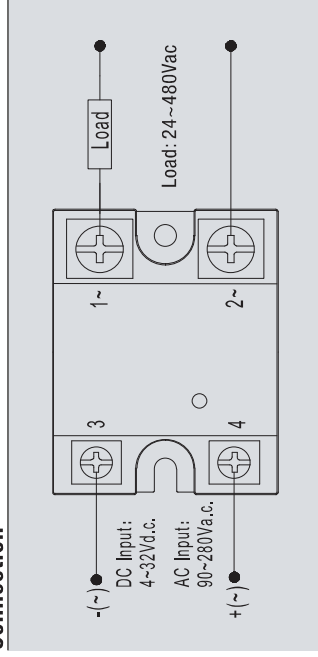
### Mechanical and storage

|                     |                       |
|---------------------|-----------------------|
| Operating condition | -30°C~+75°C 35~85% RH |
| Storage condition   | -30°C~+95°C           |
| Weight              | 0.1kg                 |
| Housing material    | Fire retardant ABS    |

## Size



## Connection



## Certificates



## Packing information

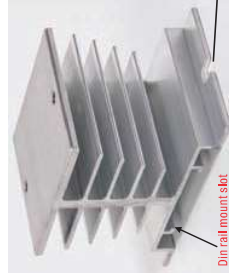
Individual box for each pcs  
10 pcs in a secondary box  
200 pcs per master carton

## 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 your application, here we only discuss the heatsink for single phase SSR both DC to AC and AC to AC.

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



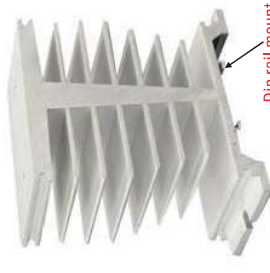
MW-W-70 and MW-W-100 looks like the same only difference is the length



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: MW-DE-50  
Size: 50mm\*94mm\*80mm  
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-DE-50  
MW-E-52



## Features:

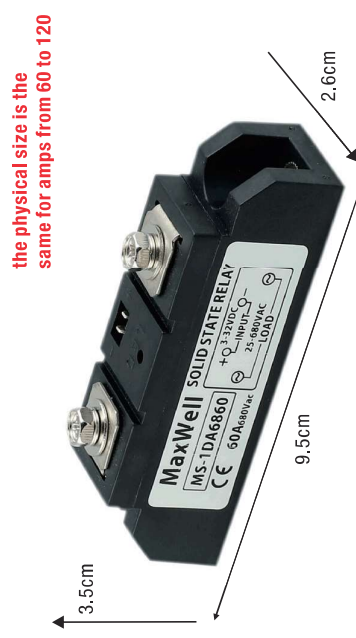
- DC to AC/ AC to AC Single Phase Solid State Relay
- 3.2-32Vdc for DC input, 90~280Vac for AC input
- 60/80/100/120/150/200/250/300/400/500/600/800/1000 amps
- **Load 24~680Vac**
- LED process indication
- Panel mount
- Zero-crossing trigger
- 60~120 same sizes, 150~400 same size, 500~1000 same sizes
- **Fast response and no noise**
  - Black housing
  - Terminal type
  - Compact size
  - Built-in RC Snubber
  - Accessories included
  - High load voltage for harsh industrial environment

## Technical Specifications

### Technical features

|                     |                                 |
|---------------------|---------------------------------|
| Load Voltage        | 24~680Vac                       |
| Control Voltage     | 3.2-32Vdc/90~280Vac             |
| Turn off voltage    | <3.5Vdc                         |
| Trigger current     | 12mA max.                       |
| Control method      | Zero crossing trigger           |
| Leak current        | ≤5mA                            |
| Response time       | ≤10mS                           |
| Input immunity      | 2.5 KV                          |
| Isolation strength  | 4500V rms                       |
| Insulation strength | 100Mohm/500Vdc(EN60950/VDE0805) |
| Operating condition | -30°C~+75°C 35~85% RH           |
| Mounting            | Panel mount                     |
| Indicator           | LED indication                  |
| Weight              | 0.1~0.3kg depends on the load   |
| Housing             | Fire retardant ABS              |

### Image and size



## Ordering Information

| MS-1-2-3-4                   |                                                |  |  |  |
|------------------------------|------------------------------------------------|--|--|--|
| 1: Type of solid state relay |                                                |  |  |  |
| 1                            | Single phase industrial type solid state relay |  |  |  |
| 2: Input configuration       |                                                |  |  |  |
| DA                           | DC to AC Solid State Relay, input 3~32Vdc      |  |  |  |
| AA                           | AC to AC Solid State Relay, input 90~280Vac    |  |  |  |
| 3: Load voltage              |                                                |  |  |  |
| 68                           | Load is 24~680Vac 50/60HZ                      |  |  |  |
| 4: Load amps                 |                                                |  |  |  |
| 60                           | 60 amps                                        |  |  |  |
| 80                           | 80 amps                                        |  |  |  |
| 100                          | 100 amps                                       |  |  |  |
| 120                          | 120 amps                                       |  |  |  |
| 150                          | 150 amps                                       |  |  |  |
| 200                          | 200 amps                                       |  |  |  |
| 250                          | 250 amps                                       |  |  |  |
| 300                          | 300 amps                                       |  |  |  |
| 400                          | 400 amps                                       |  |  |  |
| 500                          | 500 amps                                       |  |  |  |
| 600                          | 600 amps                                       |  |  |  |
| 800                          | 800 amps                                       |  |  |  |
| 1000                         | 1000 amps                                      |  |  |  |

eg. MS-1DA68250, single phase industrial type solid state relay, 3-32Vdc  
250 amps 680Vac  
MS-1AA68150, single phase industrial type solid state relay, 90~280Vac  
150 amps 680Vac

## Guidelines on the selection and usage of a solid state relay

- 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, considering using the relay at no more than **10%** of its rated current for inductive load, such as a motor, in this application, the relay only can be used to control the start and stop of the motor, not reverse of the motor
- 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 680Vac load type, this is suitable for multiple line voltage system including 110V/220V/380V to maximum 680Vac
- 6) This is a normally open SSR, with no control input, the relay output is non-conducting, some specific types of SSR have a normally closed output, this needs to be specified before order
- 7) Our relay can only be used for resistive load or inductive load, capacitive load is not suitable

the physical size is the same for amps from 150 to 400



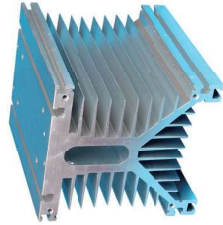
the physical size is the same for amps from 500 to 1000



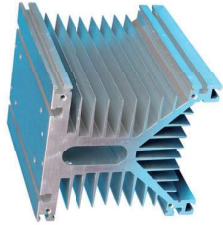
Accessories(heatsink and cooling fans)

The primarily 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 your application, here we only discuss the heatsink for industrial type solid state relay.

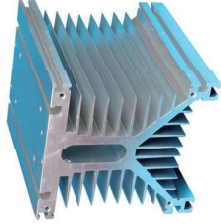
|          |             |                                       |                  |
|----------|-------------|---------------------------------------|------------------|
| MW-Y-70  | 70x125x135  | for 60~1000 amps<br>1 pcs of SSR only | Panel mount only |
| MW-Y-150 | 150x125x135 | For 60-120 amps                       | Panel mount only |
| MW-Y-170 | 170x125x135 | For 150-400 amps                      | Panel mount only |
| MW-Y-200 | 200x125x135 | For 500-1000 amps                     | Panel mount only |



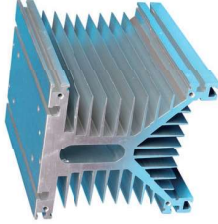
Model: MW-Y-70  
Size: 70mm\*125mm\*135mm  
This is suitable to mount 1 pcs of SSR  
Mounting method: Panel mount only  
Compatible with 12cm\*12cm fans



Model: MW-Y-150  
Size: 150mm\*125mm\*135mm  
For 60~120 amps SSR  
Mounting method: Panel mount only  
Compatible with 12cm\*12cm fans



Model: MW-Y-170  
Size: 170mm\*125mm\*135mm  
For 150-400 amps  
Mounting method: Panel mount only  
Compatible with 12cm\*12cm fans



Model: MW-Y-200  
Size: 200mm\*125mm\*135mm  
For 500-1000 amps  
Mounting method: Panel mount only  
Compatible with 12cm\*12cm fans



110VAC  
Model: SP101A  
12cm\*12cm  
sleeve bearing fans  
source:110Vac



220VAC  
Model: 2123HSL  
12cm\*12cm  
sleeve bearing fans  
source:220Vac



### Features:

- DC to DC solid state relay
- 5-32Vdc input for DC to DC
- load amps from 10 amps to 120 amps
- Load is 60VDC, 110VDC, and 220Vdc, three options
- LED process indication
- Panel mount
- mosfet triggering
- All models with the same physical size
- Fast response and no noise
  - Black housing
  - Terminal type
  - Compact size
- This item can be used for small heating application and ideal for valve control etc

### Ordering Information

MS-**1**-**2**-**3**

#### 1: Type of solid state relay

**DD** DC to DC input, 5-32Vdc

#### 2: load voltage

**60** 60Vdc load  
**110** 110Vdc load  
**220** 220Vdc load

#### 3: Load amps

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

### Guidelines on the selection and usage of a solid state relay

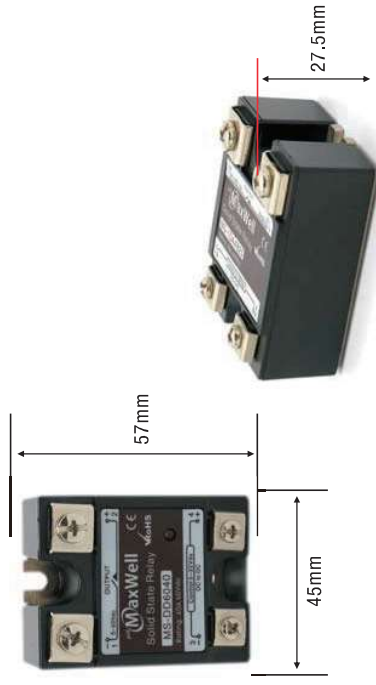
- 1) This series of SSR is suitable for small resistive load in heating application and for inductive load such as valve control
- 2) **Heatsinks** must always be installed together with the SSR regardless of the load amps, natural convection cooling might be sufficient in some cases depends on the site 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) Several options in terms of the load voltage, 60Vdc, 110Vdc, 220Vdc

### Technical Specifications

#### Electrical Technical Features

|                       |                     |
|-----------------------|---------------------|
| Load voltage          | 60Vdc/110Vdc/220Vdc |
| Control voltage       | 5-32Vdc             |
| Control current       | 5-50mA DC           |
| On voltage drop       | <1.5V               |
| Off leakage current   | <2mA                |
| On-off time           | <10ms               |
| Dielectric strength   | 2000VAC             |
| Insulation resistance | 500MΩ/500VDC        |
| Ambient Temperature   | -30°C~+75°C         |
| Indicator             | LED                 |
| Weight                | 0.1kg               |
| Mounting method       | Chassis mount       |

### Size and dimension



### Packing information

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



## Features:

- Single phase DC to AC cost effective solid state relay
  - 3.2-32Vdc input for DC to AC
  - load amps from 10 amps to 120 amps
  - Load 24~480Vac
  - LED process indication
  - Panel mount
  - Zero-crossing trigger
  - All models with the same physical size
  - Fast response and no noise
  - Black housing
  - Terminal type
  - Compact size
  - Built-in RC Snubber for all amps
  - 10,25,40 use TRIAC, 60 and above use back to back SCR
  - This series SSR is designed for resistive load application only
- Your switching solutions for heating !!**
- a typical resistive load would be heaters, this is an ideal choice for heating application

## Ordering Information

MS-1-2-3-4-5

### 1: Type of solid state relay

1 Single phase solid state relay

### 2: Input configuration

DA DC input, range 3.2-32Vdc

### 3: load voltage

48 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

### 5: Scope of application

R For resistive load only, heating application

eg: MS-1DA4840-R, 40 amps SSR, DC to AC, for resistive load

## Guidelines on the selection and usage of a solid state relay

- 1) This series of SSR only suitable for resistive load in heating application, always consider to use the SSR to its 50% of current ratings.
- 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 110V/220V/380V to maximum 480Vac
- 6) This is a normally open SSR, with no control input, the relay output is non-conducting, some specific types of SSR have a normally closed output, this needs to be specified before order

## Mechanical and storage

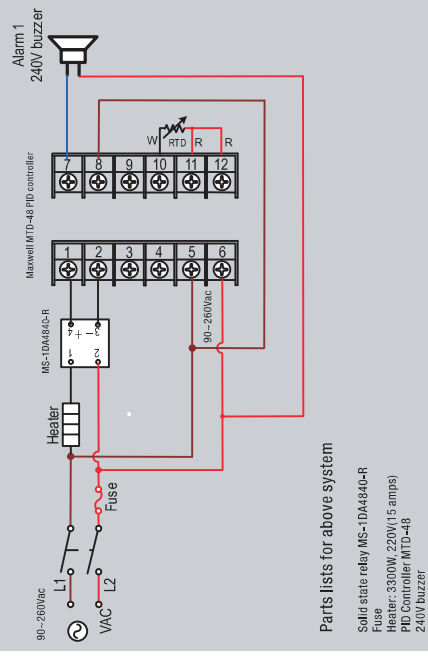
|                     |                    |           |
|---------------------|--------------------|-----------|
| Operating condition | -30°C~+75°C        | 35~85% RH |
| Storage condition   | -30°C~+95°C        |           |
| Weight              | 0.1kg              |           |
| Housing material    | Fire retardant ABS |           |

## Technical Specifications

### Electrical Technical Features (For DC to AC type)

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Load Voltage                                         | 24~480Vac                   |
| Control Voltage                                      | 3.2-32Vdc                   |
| Minimum turn-on voltage                              | 3.2Vdc                      |
| Minimum turn-off voltage                             | 1Vdc                        |
| Maximum input current                                | 25mA                        |
| Maximum turn-on time                                 | 10ms                        |
| Maximum turn-off time                                | 10ms                        |
| Maximum Off-state Leakage Current [ @ Rated Voltage] | 5mA                         |
| Maximum On-state Voltage Drop [ @ Rated Current]     | 1.6Vrms                     |
| Minimum Off-state dv/dt [ @ Maximum Rated Voltage]   | 500V/ s                     |
| Dielectric Strength [50/60Hz]                        | input/output 3500Vrms       |
| Dielectric Strength [50/60Hz]                        | input, output/base 2500Vrms |
| Transient Overvoltage                                | 1200Vpk                     |

## Solid state relay wiring setup in a heating application





### Features:

- DC to AC Single Phase Solid State Relay
- 3-32Vdc Input
- 10/25/40/50/60/75/80/90/100 amps
- Load 24~480Vac
- LED process indication
- Panel mount
- Zero-crossing trigger
- All models with the same size
- Fast response and no noise
  - Grey housing
  - Terminal type
  - Compact size

*Cost saving, very competitive price  
ideal solution for heating application!!!*

### Technical Specifications

#### Ordering Information

**SSR** - **1** - **2** - **3**

SSR short for Solid State Relay

#### 1: Load current options

|            |          |
|------------|----------|
| <b>10</b>  | 10 amps  |
| <b>25</b>  | 25 amps  |
| <b>40</b>  | 40 amps  |
| <b>50</b>  | 50 amps  |
| <b>60</b>  | 60 amps  |
| <b>75</b>  | 75 amps  |
| <b>80</b>  | 80 amps  |
| <b>90</b>  | 90 amps  |
| <b>100</b> | 100 amps |

#### 2: Input configuration

|          |                  |
|----------|------------------|
| <b>D</b> | Input DC 3-32Vdc |
|----------|------------------|

#### 3: Load type

|          |                   |
|----------|-------------------|
| <b>A</b> | Load is 24~480Vac |
|----------|-------------------|

Example: **SSR-40DA** means 40 amps DC input AC load single phase SSR

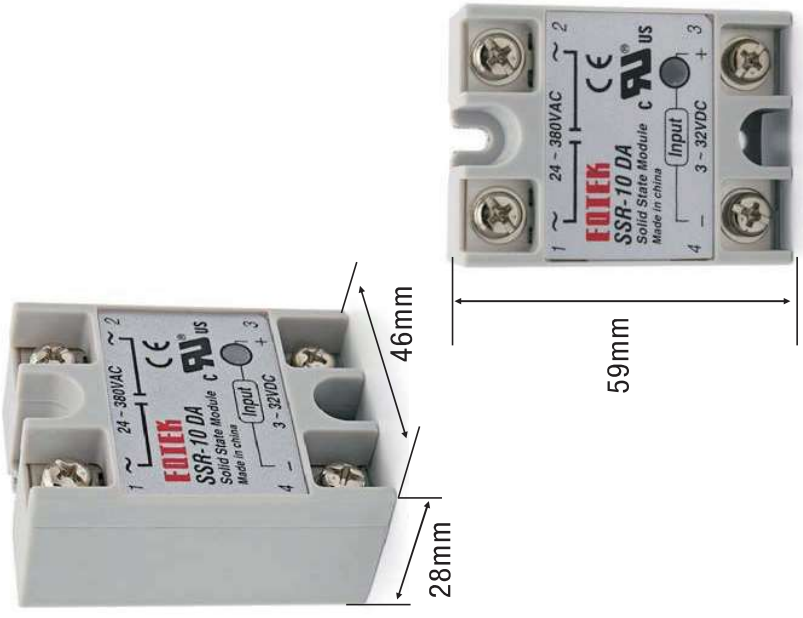
#### Technical Features

|                     |                       |
|---------------------|-----------------------|
| Load Voltage        | 24~480Vac             |
| Control Voltage     | 3.2-32Vdc             |
| Turn off voltage    | <3.5Vdc               |
| Trigger current     | 12mA max.             |
| Control method      | Zero crossing trigger |
| Leak current        | ≤5mA                  |
| Response time       | ≤10mS                 |
| Input immunity      | 2KV                   |
| Isolation strength  | 3500V rms             |
| Insulation strength | 100Mohm/500Vdc        |
| Operating condition | -30°C~+75°C 35~85% RH |
| Weight              | 0.1kg                 |

#### Guidelines on the selection and usage of a solid state relay

- 1) This series of SSR only suitable for resistive load in heating application, always consider to use the SSR to its 50% of current ratings.
- 2) **Heatsinks** must always be installed together with the SSR regardless of the load amps
- 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 110V/220V/380V to maximum 480Vac
- 6) This is a normally open SSR, with no control input, the relay output is non-conducting, some specific types of SSR have a normally closed output, this needs to be specified before order

#### Size and shape



#### Packing information

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



### 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

### 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

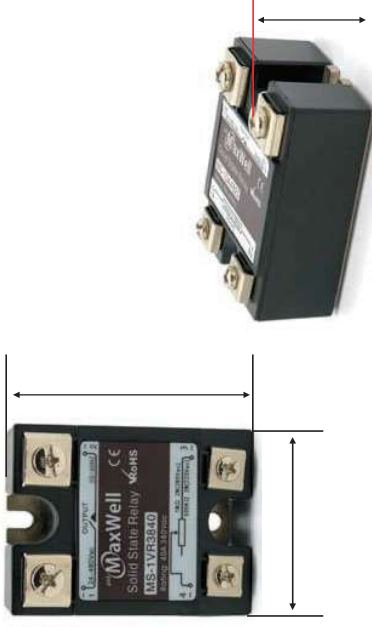
- 1) Current rating, as a general rule consider using the relay at no more than 50% of its rated current for resistive load such as a heater, lamps etc.
- 2) **Heatsinks** must always be installed together with the SSR regardless of the load amps, natural convection cooling might be sufficient in some 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

#### Technical Specifications

|                                                    |                                    |
|----------------------------------------------------|------------------------------------|
| <b>Electrical Specifications</b>                   |                                    |
| 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      |
| <b>Mechanical and environmental specifications</b> |                                    |
| 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-L-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



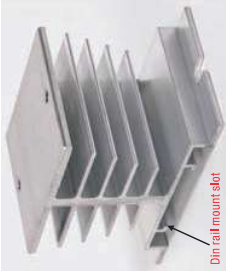
Model: WTH118-2W-B1000K-20S  
0- 1000K  
For 380Vac application



Model: RN99D-A03 AX  
With fixing screw



Model: 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



Model: MW-L-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

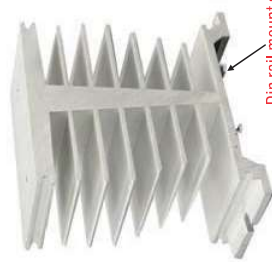
MW-W-70 and MW-W-100 looks like the same only difference is the length



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

Din rail mount slot for direct din mount purpose



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



### Features:

- Analog input phase firing solid state relay
- 0-10Vdc or 4-20mA input, specify input when you order
- load amps, 10~120 amps
- Load voltage 24~380Vdc
- Operation frequency 40~65HZ
- Panel mount
- All models with the same physical size
- Fast response and no noise
  - Black housing
  - Terminal type
  - Compact size
  - 0-10Vdc input or 4-20mA input
  - 220Vac load or 380Vac load optional

### Ordering Information

**MS** **1** **2** **3** **4**

#### 1: Type of solid state relay

**1** Single phase solid state relay

#### 2: Control mode

**VD** Analog input phase firing relay

#### 3: Load voltage

**22** 24~280Vac 50/60HZ  
**38** 24~380Vac 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

#### 5: Input configuration

**B** 0-10Vdc  
**C** 4-20mA dc

eg: MS-1VD2240C, 4-20mA input, 40 amps 220Vac  
 MS-1VD3825B, 0-10Vdc input, 25 amps, 380Vac

### Guidelines on the selection and usage of this voltage regulator

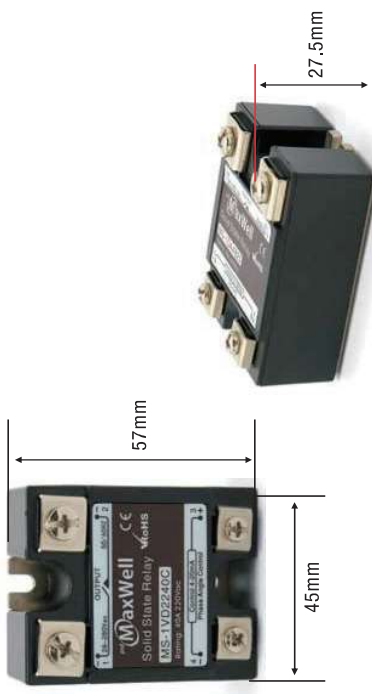
- 1) Current rating, as a general rule consider using the relay at no more than 50% of its rated current for resistive load such as a heater, lamps etc.
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- 3) Fast fuse must be installed in the system to protect overload on the SSR
- 4) Silicon rubber pad or silicon compound must be applied to the bottom of the SSR to help the heat radiation
- 5) Our SSR is 220Vac or 380Vac load type, This is suitable for 220Vac or 380Vac application
- 6) This item is mainly for resistive load, like heaters, lighting, or very small inductive loads like small fans

### Technical Specifications

#### Technical Specifications

| Electrical Specifications                   |                                |
|---------------------------------------------|--------------------------------|
| Load voltage                                | 24-280Vac or 24-380Vac         |
| Control input                               | 0-10Vdc or 4-20mA              |
| 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



### Packing information

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