



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

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

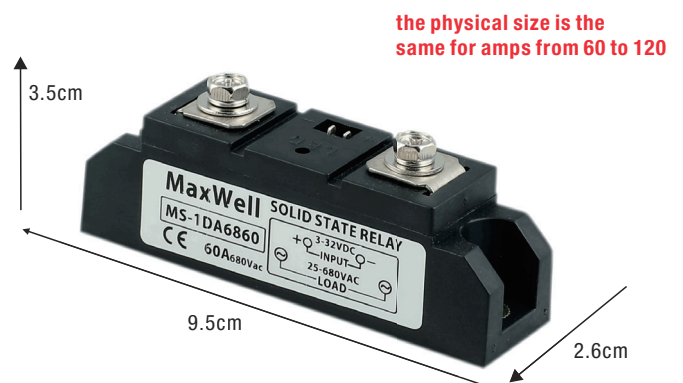
Guidelines on the selection and usage of a solid state relay

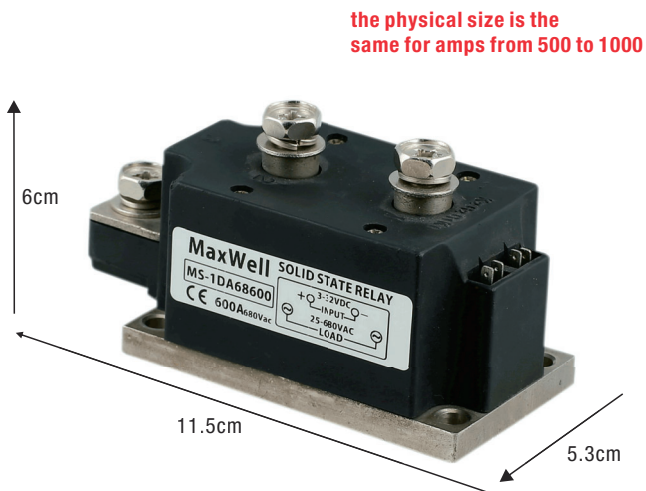
- 1) Current rating, as a general rule consider using the relay at no more than **50%** of its rated current for resistive load such as a heater, considering using the relay at no more than **10%** of its rated current for inductive load, such as a motor, in this application, the relay only can be used 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

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





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: MF-1-S-12-110
 12cm*12cm
 sleeve bearing fans
 source:110Vac



220VAC

Model: MF-1-S-12-220
 12cm*12cm
 sleeve bearing fans
 source:220Vac

Accessories(heatsink and cooling fans)

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 industrial type solid state relay.

MW-Y-70	70x125x135	from 60-1000 amps 1 pcs of SSR only	Panel mount only
MW-Y-150	150x125x135	From 60-120 amps	Panel mount only
MW-Y-170	170x125x135	From 150-400 amps	Panel mount only
MW-Y-200	200x125x135	From 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