

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

Technical Specifications

Ordering Information

MS-1-2-3-4	

1: Type of solid state relay

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	50/60H7	

4:Load current

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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 nonconducting, some specific types of SSR have a normally closed output, this needs to be specificed 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

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)

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Ī	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

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