

# moujen SINGLE PHASE SOLID STATE RELAY



**MSR - 1 2 25 D A**

Series code

1: Single phase

1: Load 5~60 Vdc

2: Load 24~280Vac

4: Load 48~480Vac

25:25A

A: AC/Load(Zero cross)  
D: DC/Load

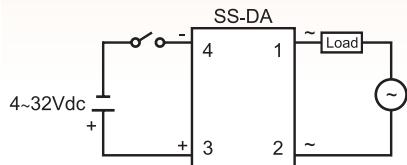
D: Input 4~32Vdc

A: Input 80~280Vac

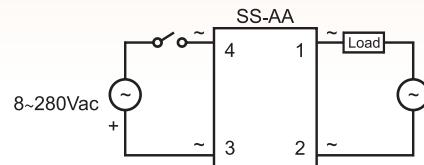
V: Input potentiometer

C: Input 4~20mA

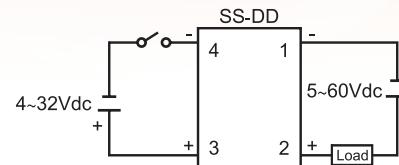
## MSR-1DA



## MSR-1AA



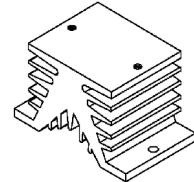
## MSR-1DD



## FEATURES

- No-contact operation
- Zero-cross switching to reduce in-rush current
- High surge voltage duration by snubber circuit.
- High surge rating allows lamp & motor load switching.
- High reliability and long service life

Type	Length	Mounting
HS-50L	50	1
HS-100L	100	2
HS-150L	150	3
HS-200L	200	4



## GENERAL

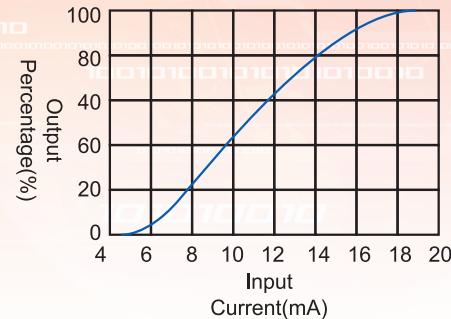
- Insulation resistance(input-output) : >100MΩ
- Dielectric strength(input-output& housing) : 2500Vrms
- Storage temperature : -40°C~100°C
- Weight : 110g
- Dielectric strength(input-output) : 4000Vrms
- Operation temperature : -20°C~80°C
- Material : PBT



## INPUT & OUTPUT

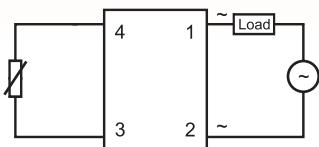
Type	MSR-1DA					MSR-1AA		
Model	210DA 410DA	225DA 425DA	240DA 440DA	250DA 450DA	275DA 475DA	210AA 410AA	225AA 425AA	240AA 440AA
<b>Input</b>								
Control voltage	4~32Vdc						80~280Vac	
Must operate voltage	4Vdc						60Vac	
Must release voltage	2Vdc						40Vac	
Max. input current	6~10mA						10mA/110Vac	
<b>Output</b>								
Rated output current(Arms)	10A	25A	40A	50A	75A	10A	25A	40A
Output load voltage	24~280Vac /48~480Vac						24~280Vac /48~480Vac	
Peak voltage	600V <sub>P</sub> / 800V <sub>P</sub>						600V <sub>P</sub> / 800V <sub>P</sub>	
Surge current	150A	250A	400A	500A	750A	150A	250A	400A
Off-state leakage current	3mA	8mA	8mA	8mA	8mA	3mA	8mA	8mA
On-state voltage drop	1.6V/ 25°C						1.6V/ 25°C	
Turn-on time	<10ms						<20ms	
Turn-off time	<10ms						<20ms	

# moujen SINGLE PHASE SOLID STATE RELAY

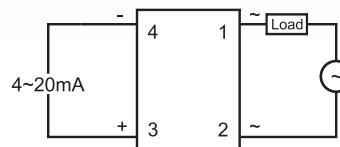


\*Heat sink HC rail type

## MSR-1VA



## MSR-1CA



## FEATURES

DD: Ideal for DC solenoid valve and DC motor.

VA: Use for light control and motor speed control

CA: With 4-20mA for linear proportional control.

## GENERAL

- Insulation resistance(input-output) : >100MΩ
- Dielectric strength(input-output& housing) : 2500Vrms
- Storage temperature : -40°C~100°C
- Weight : 110g
- Dielectric strength(input-output) : 4000Vrms
- Operation temperature : -20°C~80°C
- Material : PBT

## INPUT & OUTPUT



Type	MSR-1DD		MSR-1VA			MSR-1CA			
Model	105DD	110DD	210VA	225VA	240VA	225CA	240CA	425CA	
<b>Input</b>									
Control voltage	4 ~32Vdc		250kΩ/110V		500kΩ/220V	4~20mA			
Must operate voltage	4Vdc		-		-	-			
Must release voltage	2Vdc		-		-	-			
Max. input current	6~10mA		-		-	-			
<b>Output</b>									
Rated output current(Arms)	5A	10A	10A	25A	40A	25A	40A	25A	40A
Output load voltage	5~60Vdc		80~280Vac			90~260Vac		330~500Vac	
Peak voltage	150V <sub>P</sub>		600V <sub>P</sub>			600V <sub>P</sub>		800V <sub>P</sub>	
Surge current	14A	20A	150A	250A	400A	250A	400A	250A	400A
Off-state leakage current	<1mA		8mA	8mA	8mA	3mA	8mA	8mA	8mA
On-state voltage drop	1.6V/ 25°C					1.6V/ 25°C			
Turn-on time	<1ms		-			-			
Turn-off time	<1ms		-			-			

**moujen THREE PHASE SOLID STATE RELAY**



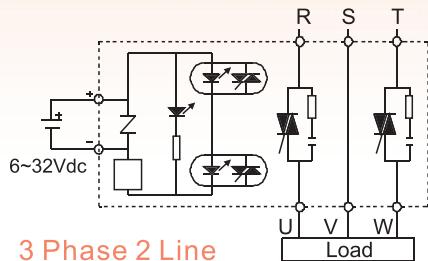
MSR - 3 2 25 D A

Series code  
2: 3Ø 2Line  
3: 3Ø 3Line

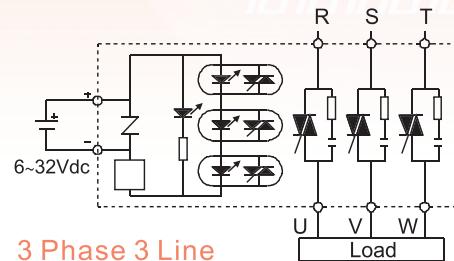
25:25A

A: AC/Load(Zero cross)  
D: Input 6~32Vdc

| MSR-2AA



| MSR-3AA



## FEATURES

- No-contact operation
  - Zero-cross switching to reduce in-rush current
  - High surge voltage duration by snubber circuit.
  - High surge rating allows lamp & motor load switching.
  - High reliability and long service life

## GENERAL

- Insulation resistance(input-output) : >100MΩ
  - Dielectric strength(input-output& housing) : 2500Vrms
  - Storage temperature : -40°C~100°C
  - Weight : 400g
  - Dielectric strength(input-output) : 4000Vrms
  - Operation temperature : -20°C~80°C
  - Material : PC+ABS/PBT(UL94V0)

## INPUT & OUTPUT



**moujen THREE PHASE SOLID STATE RELAY**



**MSR - 3 2 25 A A**

Series

Page 21

30 2Line  
10

3Ø 3Line

164/8884

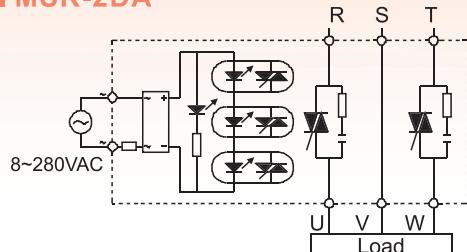
Load 24~280Vac

Load 48~480Vac

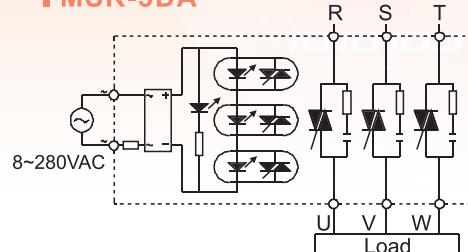
[View Details](#)

A: AC/Load(Zero cross)

| MSR-2DA



| MSR-3DA



# FEATURES

- No-contact operation
  - Zero-cross switching to reduce in-rush current
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<b>Heat sink</b>	<b>L(mm)</b>	<b>W(mm)</b>	<b>H(mm)</b>
HD-80L	80	120	80
HE-80L	80	120	122
HD-120L	120	120	122
HD-145L	145	120	80
HE-145L	145	120	122
HD-185L	185	120	122

GENERAL

- Insulation resistance(input-output) : >100MΩ
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## INPUT & OUTPUT

