


# Solid State Relay

## SSR-2 series Single phase solid state relay


### Specification

#### DC input – AC load

Model		Low	SSR-2D102Z	SSR-2D202Z	SSR-2D302Z	SSR-2D402Z
		High	SSR-2D104Z	SSR-2D204Z	SSR-2D304Z	SSR-2D404Z
Appearance						
W X H X D (mm)		42 X 64 X 27,3				
L O A D	Rated Load Voltage	Low	90 – 264 V a.c.			
		High	90 – 480 V a.c.			
	Peak Voltage (Non-repetition)	Low	600 V			
		High	800 V	1,200 V		
	Rated load current		10 A	20 A	30 A	40 A
	Frequency		50/60 Hz (Dual usage)			
	Surge current (8,3 ms No repetition)	Low	170 A	260 A	420 A	
		High	170 A	250 A	370 A	
	Leakage current		20 mA max			
	Output ON voltage dropping		Less than 1.6 V (R.M.S)			
I N P U T	Rated Voltage		5 – 24 V d.c.			
	Operating Voltage Range		4,6 – 32 V d.c.			
	Impedance		Less than 4 kΩ			
	Operation Voltage		more than 4,6 V d.c.			
	Input Current		Constant-current system : 8 mA (±3)			
Response Time		1/2 Cycle + 1 ms max. (*R*type below 1 ms)				
Insulating Resistance		500 V d.c., 100 MΩ (Between the input / output and case)				
Dielectric strength		2,500 V a.c. (For 1 min at 60 Hz)				
Vibration resistance		10 – 55 Hz, Double amplitude : 1.5 mm, X,Y, and Z direction for 2 hours				
Shock resistance		1,000 %, X,Y,Z each axis 3 times				
Storage Temperature		-30 ~ 90 °C				
Ambient Temperature		-5 ~ 40 °C (But without frostiness)				
Ambient Humidity		45 ~ 85 % RH				
Pollution level grade		2level pollution				
Usage		Resistive load / Inductive load				
Accepted standard		IEC 62314				
Weight		Approx. 89g				

# Solid State Relay

## ■ AC input – AC load

Model		Low	SSR-2A102Z	SSR-2A202Z	SSR-2A302Z	SSR-2A402Z	
		High	SSR-2A104Z	SSR-2A204Z	SSR-2A304Z	SSR-2A404Z	
Appearance							Temperature Controller
W X H X D (mm)		42 X 64 X 27,3					Recorder
LOAD	Rated Load Voltage	Low	90 – 264 V a.c.				Digital Counter
		High	90 – 480 V a.c.				Timer
	Peak Voltage (Non-repetition)	Low	600 V				Analog Timer
		High	800 V	20 A		1,200 V	
	Rated load current		10 A	20 A		30 A	40 A
	Frequency		50/60 Hz (Dual usage)				Panel Meter
	Surge current (8,3 ms No repetition)	Low	170 A	260 A	420 A		
		High	170 A	250 A	370 A		
	Leakage current		20 mA max				Multi Pulse Meter
	Output ON voltage dropping		Less than 1.6 V (RMS)				
INPUT	Rated Voltage		100 – 240 V a.c.				Proximity Sensor
	Operating Voltage Range		70 – 264 V a.c.				
	Impedance		Less than 40 kΩ				Photo Sensor
	Operation Voltage		more than 70 V a.c.				
	Input Current		220 V a.c. : 8 mA				
Response Time		1/2 Cycle + 1 ms max. ("R" type below 1 ms)				Rotary Encoder	
Insulating Resistance		500 V d.c., 100 MΩ (Between the input / output and case)					
Dielectric strength		2,500 V a.c. (For 1 min at 60 Hz)				Thyristor Power Regulator	
Vibration resistance		10 – 55 Hz, Double amplitude : 1,5 mm, X,Y, and Z direction for 2 hours					
Shock resistance		1,000 %, X,Y,Z each axis 3 times				Solid State Relay	
Storage Temperature		-30 ~ 90 °C					
Ambient Temperature		-5 ~ 40 °C (But without frostiness)				Power Supply	
Ambient Humidity		45 ~ 85 % RH					
Pollution level grade		2level pollution				Control Switch	
Usage		Resistive load / Inductive load					
Accepted standard		IEC 62314				Push Button / Main Switch	
Weight		Approx. 89g					

## ■ Suffix code

Model	Code	Information
SSR-2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Single phase solid state relay
Input Control Voltage	D	5 – 24 V d.c.
	A	100 – 240 V a.c.
Rated load current	10	10 A
	20	20 A
	30	30 A
	40	40 A
Rated load voltage	2	90 – 264 V a.c. (Low)
	4	90 – 480 V a.c. (High)
Operation method	Z	Zero Cross Switching (Standard product)
	R	Random Switching