

AC to DC 10-120A Single Phase AC SSR Solid State Relay with LED indicator

Product Description

Introduction:

Solid state relay (SSR) is an electronic switching device that switches states when an external voltage is applied along its n-type and p-type junctions. SSR has a small control signal that controls a larger load current or voltage. It consists of a sensor which responds to an appropriate input (control signal), a solid-state electronic switching device which switches power to the load circuitry, and some coupling mechanism to enable the control signal to activate this switch without mechanical parts. The relay may be designed to switch either AC or DC to the load. It serves the same function as an electronic mechanical relay, but has no moving parts.

Features:

- Dielectric strength 4000V
- Photo isolation
- Zero cross or random turn-on
- Removable finger proof cover available
- Double SCR AC output
- Panel mount
- DC or AC control
- Built-in RC



Models explanation:

CHDH.....40.....48.....ZD3

- | | | | | |
|--|----------|----------|----------|----------|
| | 1 | 2 | 3 | 4 |
|--|----------|----------|----------|----------|
- 1.**
 CHDH – single-phase solid state relay (10 – 120A)
 CHDM – industrial class solid state relay (100 – 500A)
 CHTH – three-phase solid state relay (10 – 120A)
 CHTR – motor reversing solid state relay (10 – 40A)
 - 2.**
 40 – load current 40A (10 – 500A)
 - 3.**
 48 – load voltage 24-480V AC, 38 – 24-380V AC, 23 – 5-220V DC
 - 4.**
 ZD3 – control signal type (switching mode)
 VA – variable resistor 220-560kΩ/2Bt (phase control)
 LA – analog signal 4-20mA (phase control)
 VD – analog signal 0-10V DC (phase control)
 ZD – control voltage 10-30V DC (switching at zero crossing)
 ZD3 – control voltage 3-32V DC (switching at zero crossing)
 ZA2 – control voltage 70-280V AC (switching at zero crossing)
 DD3 – control voltage 3-32V DC (DC voltage switching)

Types:

Load voltage	Control Signal	Rated current			
		10A	25A	40A	60A
480V AC	3-32 VDC	CHDH1048ZD3	CHDH2548ZD3	CHDH4048ZD3	CHDH6048ZD3
	70-280VAC	CHDH1048ZA2	CHDH2548ZA2	CHDH4048ZA2	CHDH6048ZA2

Load voltage	Control Signal	Rated current		
		80A	100A	120A
480V AC	3-32 VDC	CHDH8048ZD3	CHDH100ZD3	CHDH12048ZD3
	70-280V AC	CHDH8048ZA2	CHDH10048ZA2	CHDH12048ZA2

Technical specifications:

Model	CHDHxxxxxZD3	CHDHxxxxxZA2
Load voltage	24-480VAC	
Control voltage	3-32V DC	70-280V AC
Current consumption in control circuit	3-25mA	12mA
Voltage ON/OFF	3V DC / 1V DC	70V DC / 10V DC
Peak voltage	1000V AC	
Voltage drop in load circuit	1.6V AC	
Leakage current(off-state)	10mA	
Switching time	10mS	
LED indication	yes	
Dielectric strength	2500V AC (1min)	
Insulation resistance	500MΩ; with 500V DC	
Operating temperature	-30°C ~ +75°C	
Relative Humidity	95%(non-condensing)	
Dimensions	57.4x44.8x32mm	
Mounting method	Screws on	
Weight	135g	

Outline dimensions & Wiring diagram:

