

AC to DC Three phase SSR Solid State Relay 4000V 10A 25A 40A 60A 120A 480V AC to 32V DC

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 electromechanical relay, but has no moving parts.

Features:

- Dielectric strength 4000V
- Photo isolation
- Zero cross or random turn-on
- Removable finger proof cover available
- Load current 10-120A
- Panel mount
- Control voltage 3-32Vdc, 70-280Vac
- 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 220-560k Ω /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
480V AC	3-32V DC	CHTH1048ZD3	CHTH2548ZD3	CHTH4048ZD3
	70-280V AC	CHTH1048ZA2	CHTH2548ZA2	CHTH4048ZA2

Load voltage	Control Signal	Rated current			
		60A	80A	100A	120A
480V AC	3-32V DC	CHTH6048ZD3	CHTH8048ZD3	CHTH10048ZD3	CHTH12048ZD3
	70-280V AC	CHTH6048ZA2	CHTH8048ZA2	CHTH10048ZA2	CHTH12048ZA2

Technical specifications:

Model	CHTHxxxxxZD3	CHTHxxxxxZA2
Load voltage	24-480VAC	
Control voltage	3-32V DC	70-280V AC
Current consumption in control circuit	10-68mA	≤12mA
Voltage ON/OFF	3V DC/1.5V DC	70V DC/10V AC
Leakage current(off-state)	≤10mA	
Peak voltage	1000V AC	
Voltage drop in load circuit	≤1.6V AC	
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	105x74x33mm	
Mounting method	Screws on	
Weight	≤450g	

Outline dimensions & Wiring diagram:

