CHORDN

INSTALLATION USER MANUAL

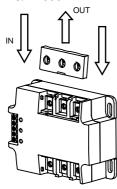
Three phase angle controller

Electric current danger to life!

Following operations shall be carried out by qualified persons. Disconnect all power source before wiring.

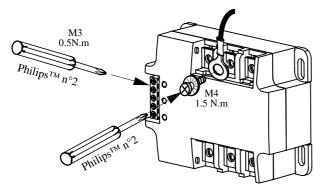
Warning

Reference standard: IEC/EN60947-1



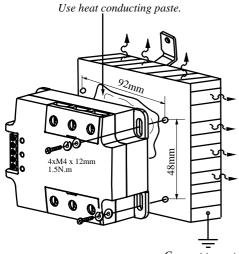
Warning! IP00 housing. Use adapted cover to protect against direct touching. In cases for which the cover can't be used, care should be taken to protect the user against electric shocks.

Insulated crimp terminals (eyelet type)



For other terminals, always use the adapted connection method (connector, soldering on a PCB).

As for the output terminals, the wire cross sections must be adapted to the load current. The relay rated voltage must be adapted to the mains rated voltage.



Connect to protective ground.

Must be used only in conjunction with a heatsink mounted in vertical position to help the

Minimum air distances all around the heatsink: 20mm.

For heatsink choice: see the technical data sheet of the considered product.



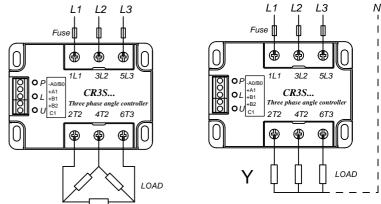
heatsink surfaces may be hot. Protect them against contact with heat sensitive materials (wire insulation, plastic parts...).

Caution

Semiconductor relays don't provide any galvanic insulation between the load and the mains. Always use in conjunction with an adapted circuit breaker with isolation feature or a similar device in order to ensure a reliable isolation in the event of malfunction and when the relay must be insulated from the mains (maintenance; if not used for a long

Warning

Wiring possibilities



0-5V/0-10Vdc control

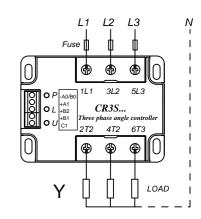
Control description

-A0/B0: 0V

+A1: 10-32Vdc

+B1: 0-5V/0-10Vdc

+B2: NO wiring L2 L3 3L2 5L3 CR3S. 2T2 4T2 6T3 4 LOAD



1 1

R3S...

6T3

4-20mA control

01

Control description

-A0/B0: 0V

+A1: 10-32Vdc

+B1: 4-20mA

+B2: NO wiring

C1 select load type

C1 hanging: star without neutral or delta;

C1 with -A0/B0: star with neutral;

LED description

P: Power supply indication

L: Output operating indication

U: Undervoltage indication

- There exists phase detection circuit inside the product, so it could work normally just in the case that L1, L2 and L3 are connected to phase line, T1, T2 and T3 are connected to load. Otherwise, it will not work properly.
- Reference to the different connection modes of the load, connecting C1 strictly according to the wiring diagram. Otherwise, it will not work normally.

Short-circuit protection choice chart

The rated current of a solid state relay is:

For AC relays, a maximum nominal R.M.S current, in an AC1 utilization category (resistive load).

For any use on other load types, especially those with a high inrush current during turn ON, consult us.

Relay rated current	Utilization category EN60947-4-2	CHORDN fuse references (Mains Iq<10kA)
25A	AC1(Resistive load)	aR 16A - 690V - 10x38 / I2t @ 400V 225A2s
40A	AC1(Resistive load)	aR 25A - 690V - 10x38 / I2t @ 400V 400A2
50A	AC1(Resistive load)	aR 40A - 690V - 14x51 / I2t @ 400V 900A2s
75A	AC1(Resistive load)	aR 63A - 690V - 22x58 / I2t @ 400V 3900A2s



 $Read\ carefully\ the\ safety\ guidelines\ and\ programming\ instructions\ in\ this\ manual\ before\ using/connecting\ the\ device.$







Website: http://www.chordn.com