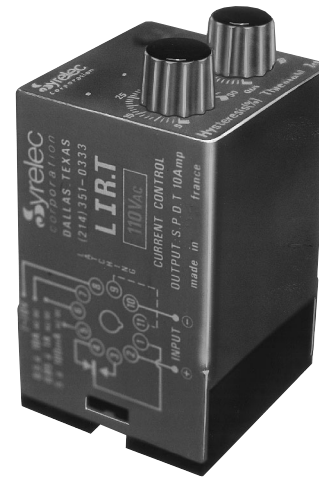


# IR.T SERIES

## CURRENT CONTROL RELAY

UL listed CSA recognized



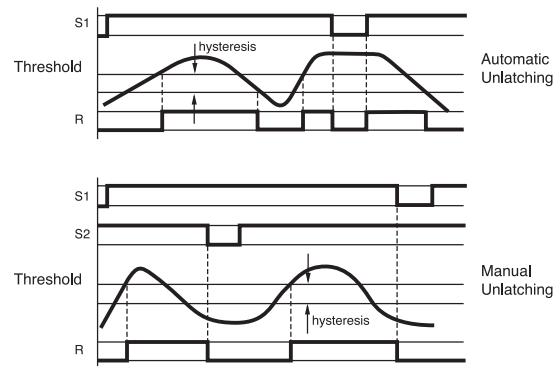
- **Automatic or Manual Control**
- **Start-up Inhibit**
- **Adjustable Hysteresis**
- **Multiple Voltages**
- **LED Relay Status Indicator**

### 1. AC Current Control Without Latching:

The output relay is energized when the current (peak current on AC) overshoots the level selected on the potentiometer. It de-energizes when the current falls below the normal current by 5 to 50% or when input power breaks. The hysteresis is controlled by a top mounted potentiometer and its selection does not change the chosen current level.

### 2. AC Current Control With Latching:

The output relay is energized when the current reaches the selected value and stays latched. The contact between terminal B1 and B2 (or 11 and 9) should be opened or input power to the device interrupted to reset. In this case, it is preferable to reduce the hysteresis 5%.



### SPECIFICATIONS:

|                                   |                                               |                |                   |                  |
|-----------------------------------|-----------------------------------------------|----------------|-------------------|------------------|
| <b>Input</b>                      | 24 VDC, 24, 48, 110, 220 VAC                  |                |                   |                  |
|                                   | ±15%, 50/60 Hz                                |                |                   |                  |
| <b>Power consumption</b>          | 3 VA maximum                                  |                |                   |                  |
| <b>CONTROL RANGE</b>              |                                               | <b>INPUT</b>   | <b>PERMITTED</b>  | <b>OVERLOAD</b>  |
| <b>DC</b>                         | <b>AC</b>                                     | <b>CURRENT</b> | <b>RESISTANCE</b> | <b>LESS THAN</b> |
| 5 to 100 mA                       | 3.5 to 70.7 mA                                | 1 ohm          | 1.5 V             | 5 A              |
| 0.05 to 1 A                       | 0.035 to 0.707 A                              | 0.1 ohm        | 5 A               | 17 A             |
| 0.5 to 10 A                       | 0.35 to 7.07 A                                | 0.01 ohm       | 15 A              | 55 A             |
| <b>Hysteresis selection</b>       | 5 to 50% of input current                     |                |                   |                  |
| <b>Repeat accuracy</b>            | ±2% at a constant ambient                     |                |                   |                  |
| <b>Response time</b>              | 100 ms On Make<br>200 ms On Break             |                |                   |                  |
| <b>Output Relay</b>               | SPDT Relay                                    |                |                   |                  |
| <b>Contact material</b>           | AgCdO                                         |                |                   |                  |
| <b>Maximum loading</b>            | 10 A AC resistive 1 A DC inductive            |                |                   |                  |
| <b>Maximum switching voltage</b>  | 250 VAC or DC                                 |                |                   |                  |
| <b>Relay maximum power rating</b> | 2500 VA 30W                                   |                |                   |                  |
| <b>Mechanical life of relay</b>   | 30 x 10 <sup>4</sup> operations               |                |                   |                  |
| <b>Electrical life of relay</b>   | 2 x 10 <sup>5</sup> at 2500 VA resistive load |                |                   |                  |
| <b>Operating temperature</b>      | +14°F to +140°F -10°C to +60°C                |                |                   |                  |
| <b>Weight</b>                     | 7 oz. (200g)                                  |                |                   |                  |

**Option:** 24 VDC power - the voltage and the measured current must be from separate sources.

**Note:** It is recommended that the unit be adequately fused.

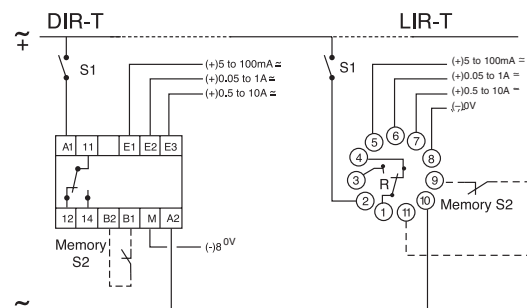
### ORDERING INFORMATION:

**MOUNTING**  
D = DIN-rail mounting  
L = 11 pin plug-in

**IR.T SERIES**  
SERIES  
IR.T

**110A INPUT POWER**  
24D = 24VDC  
24A = 24VAC  
48A = 48VAC  
110A = 110VAC  
220A = 220VAC

### WIRING DIAGRAM:



**Note:** Upon energization of the current control IR.T Series Relay, the time delay, which is adjustable from .1 to 10 seconds, inhibits the output relay during start-up periods. The delay time is adjustable via a potentiometer located on the side of the case. Applies to both versions, with and without latching.

Products and specifications subject to change without notice.

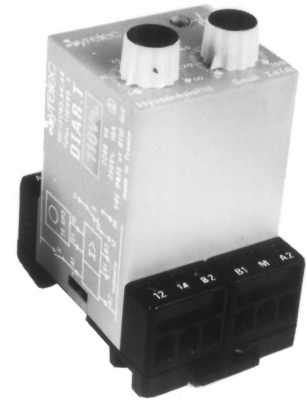
Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / [www.crouzet-usa.com](http://www.crouzet-usa.com)

# IAR.T SERIES

## CURRENT CONTROL RELAY

UL listed CSA recognized

- **Automatic or Manual Control**
- **Start-up Inhibit**
- **Adjustable Hysteresis**
- **Multiple Voltages**
- **5 to 100 Amp RMS**



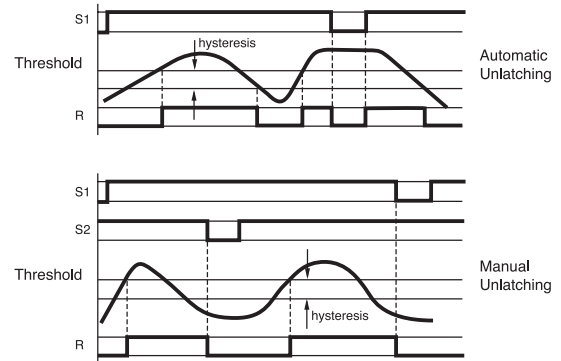
The DIAR.T is a current control which is capable of sensing up to 100 Amps. If requires a stepdown transformer, T1 100. The transformer has a 0.4" diameter center hole through which a current carrying lead is routed. Automatic or manual unlatching is available in each unit.

### 1. AC Current Control Without Latching:

The output relay is energized when the AC current overshoots the level selected on the potentiometer. It de-energizes when the current falls below the selected current by 5 to 50% or when input power breaks. The hysteresis is controlled by a top mounted potentiometer and its selection does not change the chosen current level.

### 2. AC Current Control With Latching:

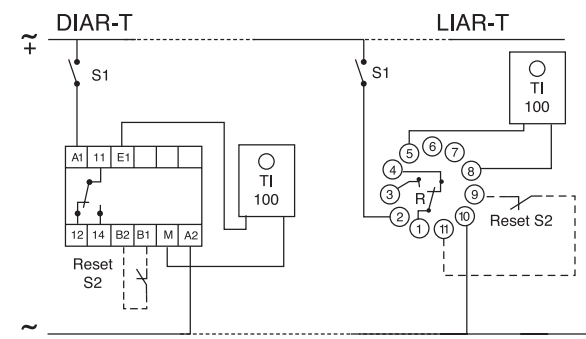
The output relay is energized when the current reaches the selected value and stays latched. The contact between terminal B1 and B2 (or 11 and 9) should be opened or input power to the device interrupted to reset. In this case, it is preferable to reduce the hysteresis 5%.



## SPECIFICATIONS:

|                            |                                               |                  |
|----------------------------|-----------------------------------------------|------------------|
| Input                      | 24 VDC, 24, 48, 110, 220 VAC                  |                  |
|                            | ±15%, 50/60 Hz                                |                  |
| Power consumption          | 3 VA maximum                                  |                  |
| Hysteresis selection       | 5 to 50% of input current                     |                  |
| Repeat accuracy            | ±2% at a constant ambient                     |                  |
|                            | ±5% with temperature variation                |                  |
|                            | VDE 0435                                      |                  |
| Response time              | 100 ms On Make                                |                  |
|                            | 200 ms On Break                               |                  |
| Output Relay               | SPDT Relay                                    |                  |
| Contact material           | AgCdO                                         |                  |
| Maximum loading            | 10 A AC resistive                             | 1 A DC inductive |
| Maximum switching voltage  | 250 VAC                                       | 30 VDC           |
| Relay maximum power rating | 2500 VA                                       | 30 W             |
| Mechanical life of relay   | 30 x 10 <sup>4</sup> operations               |                  |
| Electrical life of relay   | 2 x 10 <sup>5</sup> at 2500 VA resistive load |                  |
| Operating temperature      | +14°F to +140°F                               | -10°C to +60°C   |
| Weight                     | 7 oz. (200g)                                  |                  |

## WIRING DIAGRAM:

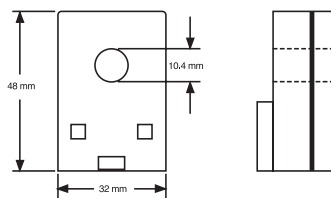


**Note:** Upon energization of the current control IAR.T Series Relay, the time delay, which is adjustable from .1 to 10 seconds, inhibits the output relay during start-up periods. The delay time is adjustable via a potentiometer located on the side of the case. For additional current transformer see "Accessories" section: L595 Series. Page 2/99

## TRANSFORMER: (Part Number 74 525 305)

Current  
Range: 5 to 100 A RMS

Maximum  
Overload: 1 max = 150 A



## ORDERING INFORMATION:

**MOUNTING**  
D = DIN-rail mounting  
L = 11 pin plug-in

**L MOUNTING**

**IAR.T SERIES**  
**SERIES IAR.T**

**110A INPUT POWER**

**INPUT POWER**  
24D = 24VDC  
24A = 24VAC  
48A = 48VAC  
110A = 110VAC  
220A = 220VAC

Products and specifications subject to change without notice.

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