## CONTROLS



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# **R.T SERIES URRENT 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:

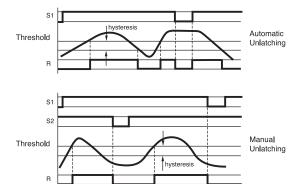
Input					
Power consumption		,	,		
CONTROL RANGE			PERMITTED	OVERLOAD	
DC	AC	INPUT		LESS THAN	
CURRENT	CURRENT	RESISTANCE	PERMANENTLY	1 sec Peak	
5 to 100 mA	3.5 to 70.7 mA	1 ohm	1.5 V	5 A	
0.05 to 1 A	0.035 to 0.707 A	0.1 ohm	5 A	17 A	
0.5 to 10 A	0.35 to 7.07 A	0.01 ohm	15 A	55 A	
Hysteresis selection 5 to 50% of input current					
<b>Repeat accuracy</b> ±2% at a constant ambient					
Response time					
		200 m	s On Break		
Output Relay SPDT Relay					
Contact material AgCdO					
Maximum loading 10 A AC resistive 1 A DC inductive					
Maximum switching voltage 250 VAC or DC					
Relay maximum power rating		<b>j</b> 2500 V	'A	30W	
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					
<b>Operating temperature</b>					
Weight		7 oz. (2	200g)		
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Option: 24 VDC power - the voltage and the measured current must be from separate sources.

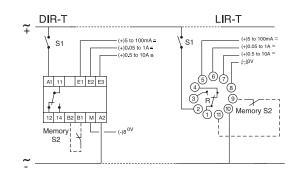
Note: It is recommended that the unit be adequately fused.

#### **ORDERING INFORMATION:**

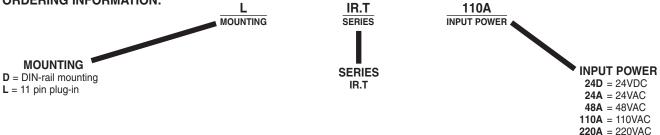




### WIRING DIAGRAM:



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

