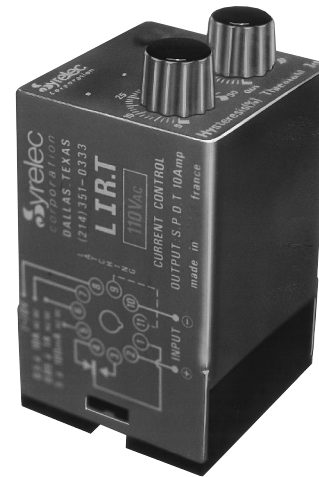


IR.T SERIES

CURRENT CONTROL RELAY

UL listed CSA recognized



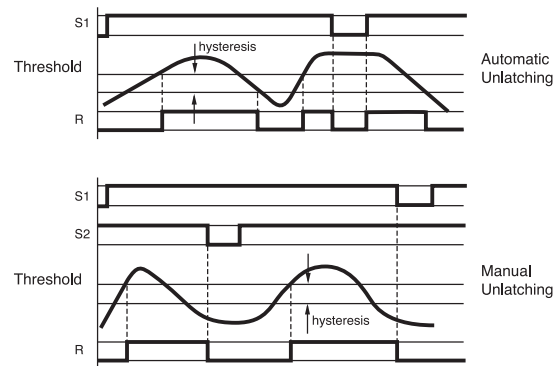
- **Automatic or Manual Control**
- **Start-up Inhibit**
- **Adjustable Hysteresis**
- **Multiple Voltages**
- **LED Relay Status Indicator**

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%.



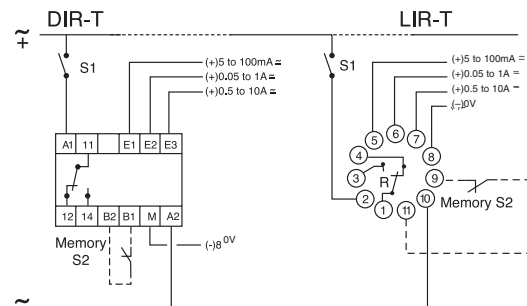
SPECIFICATIONS:

Input	24 VDC, 24, 48, 110, 220 VAC			
	±15%, 50/60 Hz			
Power consumption	3 VA maximum			
CONTROL RANGE		INPUT	PERMITTED	OVERLOAD
DC	AC	RESISTANCE	PERMANENTLY	LESS THAN
CURRENT	CURRENT			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			
Repeat accuracy	±2% at a constant ambient			
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 or DC			
Relay maximum power rating	2500 VA 30W			
Mechanical life of relay	30 x 10 ⁴ operations			
Electrical life of relay	2 x 10 ⁵ at 2500 VA resistive load			
Operating temperature	+14°F to +140°F -10°C to +60°C			
Weight	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.

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.

ORDERING INFORMATION:

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

IR.T SERIES
SERIES
IR.T

110A
INPUT POWER

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

Products and specifications subject to change without notice.

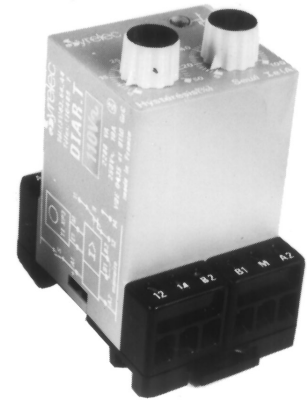
Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

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**



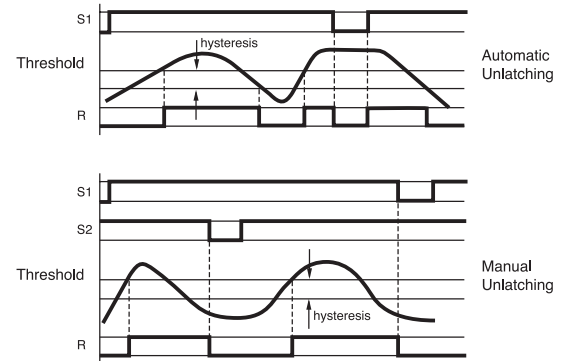
The DIAR.T is a current control which is capable of sensing up to 100 Amps. If requires a stepdown transformer, T1 100. The transformer has a 0.4" diameter center hole through which a current carrying lead is routed. Automatic or manual unlatching is available in each unit.

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:

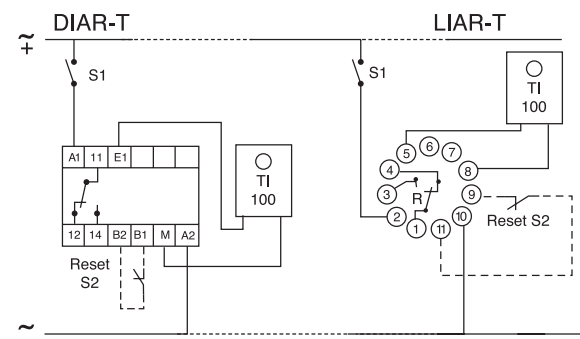
The output relay is energized when the current reaches the selected value and stays latched. The contact between terminal B1 and B2 (or 11 and 9) should be opened or input power to the device interrupted to reset. In this case, it is preferable to reduce the hysteresis 5%.



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 ⁴ operations	
Electrical life of relay	2 x 10 ⁵ at 2500 VA resistive load	
Operating temperature	+14°F to +140°F	-10°C to +60°C
Weight	7 oz. (200g)	

WIRING DIAGRAM:

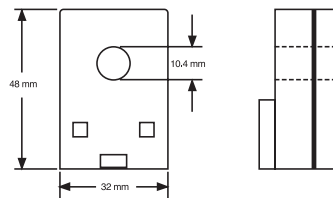


Note: Upon energization of the current control IAR.T Series Relay, the time delay, which is adjustable from .1 to 10 seconds, inhibits the output relay during start-up periods. The delay time is adjustable via a potentiometer located on the side of the case. For additional current transformers see "Accessories"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

L
MOUNTING

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

IAR.T
SERIES
IAR.T

110A
INPUT POWER

INPUT POWER

24D = 24VDC 48A = 48VAC
24A = 24VAC 110A = 110VAC
220A = 220VAC

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