

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%.

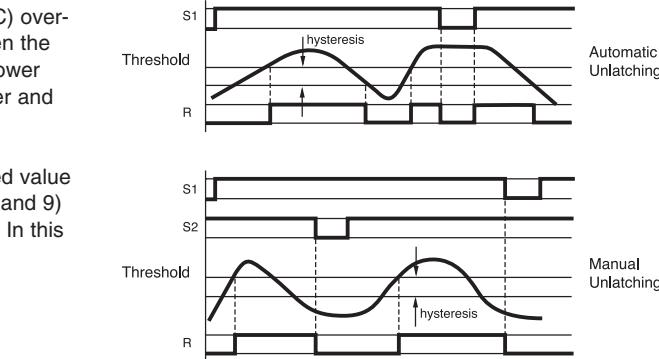
SPECIFICATIONS:

Input	.....	24 VDC, 24, 48, 110, 220 VAC ±15%, 50/60 Hz		
Power consumption	.....	3 VA maximum		
CONTROL RANGE	.....		
DC CURRENT	AC CURRENT	INPUT RESISTANCE	PERMITTED	OVERLOAD LESS THAN
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 AAC 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 ⁶ at 2500 VA resistive load		
Operating temperature	.....	+14°F to + 140°F	-10°C to +60°C	
Weight	.....	7 oz. (200g)		

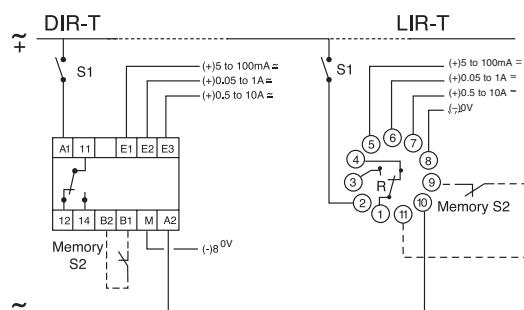
Option: 24 VDC power - the voltage and the measured current must be from separate sources.

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

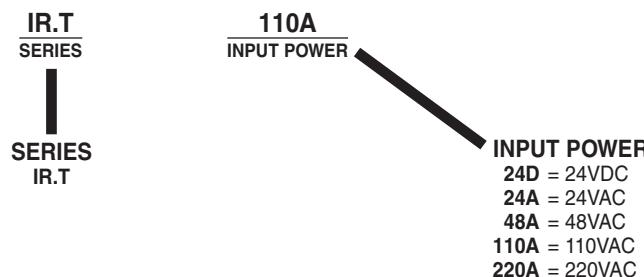
ORDERING INFORMATION:



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

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.

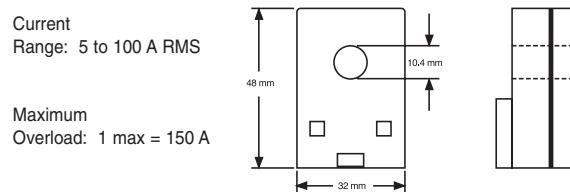
2. AC Current Control With Latching:

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
Maximum switching voltage	250 VAC
Relay maximum power rating	2500 VA
Mechanical life of relay	30 x 10 ⁴ operations
Electrical life of relay	2 x 10 ⁷ at 2500 VA resistive load
Operating temperature	+14°F to +140°F
Weight	-10°C to +60°C 7 oz. (200g)

TRANSFORMER: (Part Number 74 525 305)



ORDERING INFORMATION:

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

L
MOUNTING

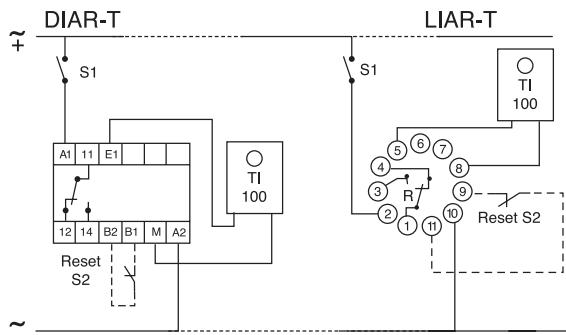
IAR.T
SERIES
IAR.T

110A
INPUT POWER

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

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

WIRING DIAGRAM:



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