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 10⁴ operations
- Electrical life of relay: 2 x 10⁵ at 2500 VA resistive load
- Operating temperature: +14°F to +140°F -10°C to +60°C
- Weight: 7 oz. (200g)

Transformer: (Part Number 74 525 305)

ORDERING INFORMATION:

- MOUNTING
  D = DIN-rail mounting
  L = 11 pin plug-in
- SERIES
  IAR.T
- INPUT POWER
  110A
- INPUT POWER
  24D = 24VDC
  24A = 24VAC
  48A = 48VAC
  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

Products and specifications subject to change without notice.

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

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