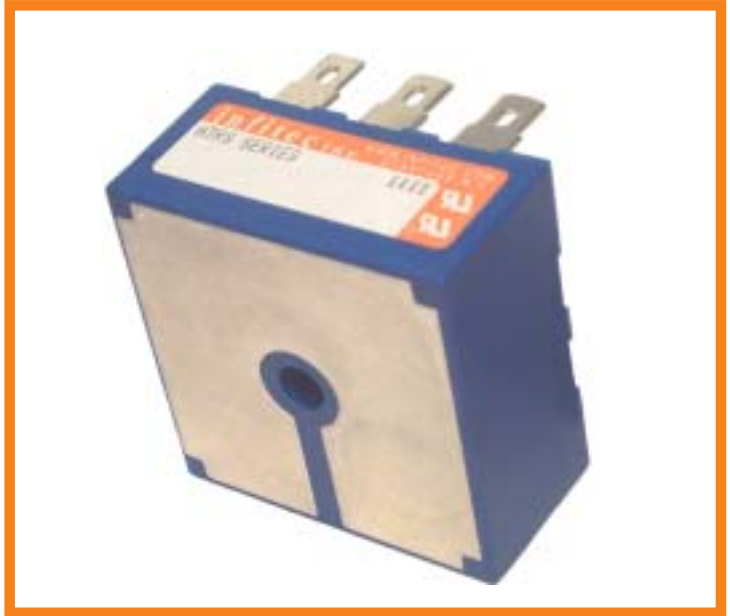




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HTRS SERIES

DIGITAL ENCAPSULATED REPEAT CYCLE TIME DELAY MODULE



FEATURES

- C/MOS Digital Circuitry
- Fixed, Independent Local or External Timing Adjustments
- Time Delays From 0.05 Seconds To 1000 Minutes
- Fully Solid State And Encapsulated
- No First Cycle Effect
- 0.5% Repeat Accuracy
- Low Cost Mounting And Termination
- Output Current Ratings To 25 Amperes Steady State, 250 Amperes Inrush

SPECIFICATIONS

1. Time Delay.

- 1.1 Type: C/MOS digital circuitry
- 1.2 Range: From 0.05 seconds to 1000 minutes.
Fixed delays available
- 1.3 Repeat accuracy: $\pm 0.5\%$ under fixed conditions
- 1.4 Setting accuracy: $\pm 10\%$
- 1.5 Reset time: 100 milliseconds maximum
- 1.6 Recycle time: 150 milliseconds
- 1.7 Time delay vs. voltage and temperature: $\pm 2\%$
- 1.8 External resistance (remote adjust only): Max. delays = 1 megohm for ranges 1 - 6H, 3 megohms for range 7

2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC
- 2.2 Tolerance: $\pm 20\%$ of nominal
- 2.3 Frequency: 50 - 60 Hertz

3. Output.

- 3.1 Type: Solid state
- 3.2 Form: SPST
- 3.3 Ratings:
 - A-6 amp steady state, (60 amp inrush, 200 mA. min.)*
 - B-10 amp steady state, (100 amp inrush, 225 mA. min.)*
 - C-15 amp steady state, (150 amp inrush, 250 mA. min.)*
 - D-2.5 amp steady state, (50 amp inrush, 150 mA. min.)
 - H-25 amp steady state, (250 amp inrush, 500 mA. min.)■
 - * Maximum plate temperature: 85°C
 - Maximum plate temperature: 60°C
- 3.4 Life: 100,000,000 operations minimum under full load

4. Protection.

- 4.1 Transient: ± 1500 volts for 150 microseconds
- 4.2 Dielectric breakdown: 1500 volts RMS minimum

5. Mechanical.

- 5.1 Mounting: One #8 or #10 screw
- 5.2 Termination: 1/4" quick connect terminals
- 5.3 Style: Surface mount / encapsulated with heat sink surface
*(see dimensional drawing)

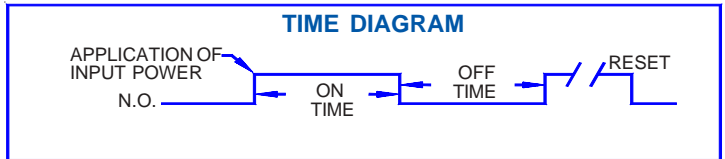
6. Environmental.

- 6.1 Operating temperature: -20°C to +80°C
- 6.2 Storage temperature: -30°C to +85°C
- 6.3 Humidity: 95% relative non-condensing

MODE OF OPERATION

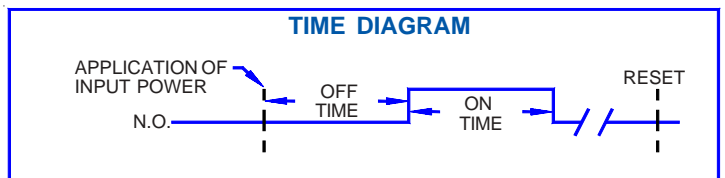
On/Off Recycle

Upon application of power to the input terminals, the **ON** delay begins and the output contact transfers. Upon completion of the **ON** delay, the output contact reverts back to its original position and the **OFF** delay begins. Upon completion of the **OFF** delay, the output contact again transfer and the cycle repeats. Reset is accomplished by removal of input power.

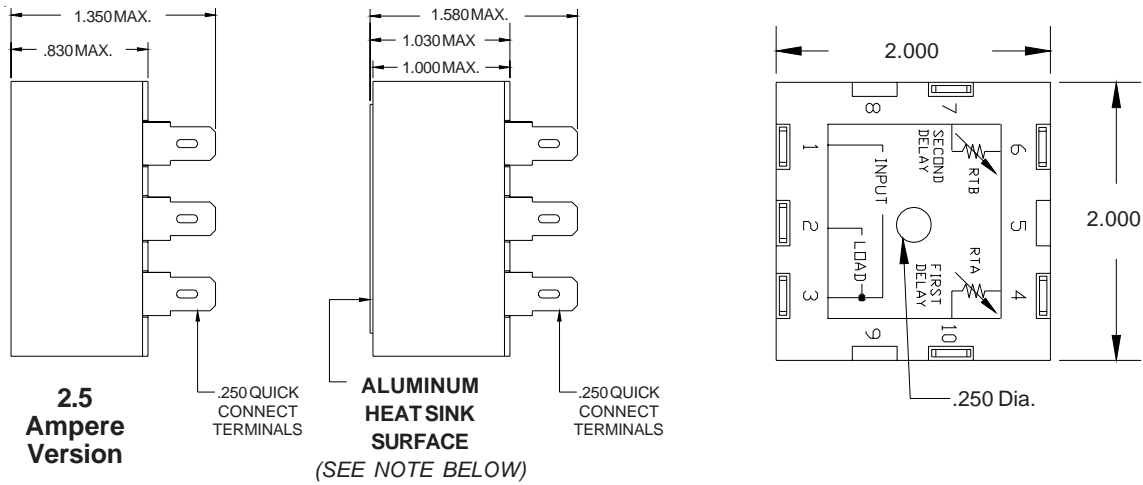


Off/On Recycle

Upon application of power to the input terminals, the **OFF** delay begins. Upon completion of the **OFF** delay, the output contact transfers and the **ON** delay begins. Upon completion of the **ON** delay, the output contact reverts back to its original position and the cycle repeats. Reset is accomplished by removal of input power.



DIMENSIONS



2.5 Ampere Version

ALUMINUM HEAT SINK SURFACE

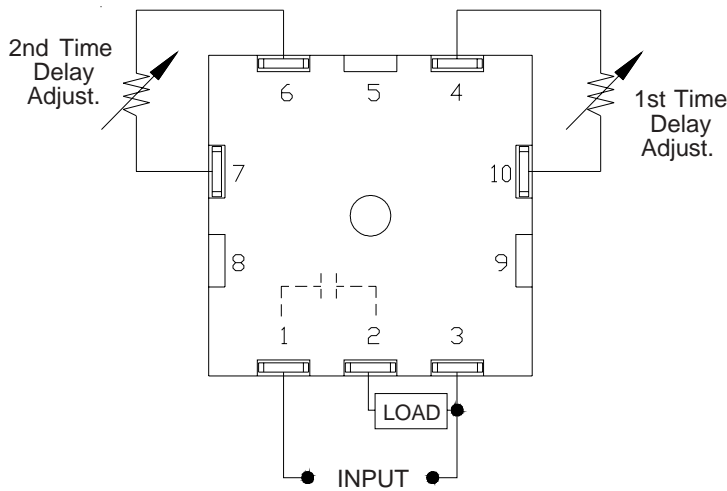
(SEE NOTE BELOW)

6, 10, 15 & 25 Ampere Versions

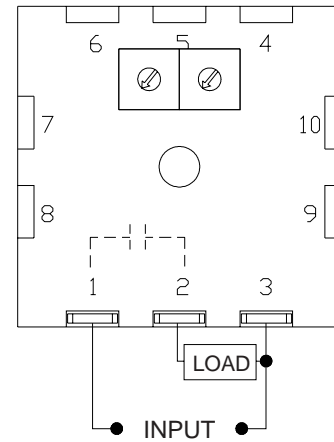
NOTE:

For maximum current rating the unit's metal backing must be installed against an aluminum surface of at least 1/16" thickness. A suitable thermal compound should be applied to the unit's metal surface prior to mounting. Refer to Application Note #AN1001 HEATSINKING HIGH CURRENT SOLID STATE CONTROLS

CONNECTION DIAGRAMS



External Adjustments Shown



Local Adjustments Shown

ORDERING INFORMATION

| SERIES | INPUT VOLTAGE | OUTPUT RATING | ADJUSTMENT | CYCLE | 1ST TIME RANGE | 2ND TIME RANGE |
|--------|--|--|--|---|----------------------------|----------------|
| HTRS | 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC | A - 6 Amp B - 10 Amp C - 15 Amp D - 2.5 Amp H - 25 Amp | 0 - Both Delays Local Adj. 0A- 1st Delay Fixed 2nd Delay Local Adj. 0B- 1st Delay Local Adj. 2nd Delay Fixed 0C- 1st Delay Ext. Adj. 2nd Delay Local Adj. 0D- 1st Delay Local Adj. 2nd Delay Ext. Adj. 1 - Both Delays Factory Fixed 1A- 1st Delay Fixed 2nd Delay Ext. Adj. 1B- 1st Delay Ext. Adj. 2nd Delay Fixed 2 - Both Delays Ext. Adj. | 1 - On Time First 2 - Off Time First | See Time Delay Range Chart | |