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TPS SERIES

DIGITAL ENCAPSULATED PERCENTAGE TIME DELAY MODULES

FEATURES

- C/MOS Digital Circuitry
- Low Cost Percentage Timing Control
- Cycle Times From 1 Second to 100 Minutes
- Fully Solid State and Encapsulated
- 0.5% Repeat Accuracy
- On Tim Settable from 5% to 95% of Cycle Time
- 1, 2.5, 6, 15, & 25 Amp Output Ratings (AC Models)
- UL/cUL Recognized

SPECIFICATIONS

1. Time Delay

- 1.1 Type: C/MOS Digital Circuitry
- 1.2 Range: From 1 Second to 100 Minutes
(See Ordering Information)
- 1.3 Repeat Accuracy: $\pm 0.5\%$ Under Fixed Conditions
- 1.4 Setting Accuracy: $\pm 10\%$
- 1.5 Reset Time: 50 Milliseconds Maximum
- 1.6 Recycle Time: 100 Milliseconds During Timing
50 Milliseconds After Timing
- 1.7 Time Delay vs Voltage and Temperature: $\pm 3\%$
- 1.8 External Resistance:
 Ranges 1, 1A, 1B - 100K Ohms = Maximum Cycle Time
 Other Ranges - 1 Megohms = Maximum Cycle Time

2. Input

- 2.1 Operating Voltage: 12 & 24/28 VDC, 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:
AC A - 1 Amp Steady State, (10 Amp Inrush, 50 mA min.)
 B - 6 Amp Steady State, (60 Amp Inrush, 200 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.)
DC A - 1 Amp Steady State, (10 Amp Inrush, 20 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: MOVistor Protected
- 4.2 Dielectric Breakdown: 1500 Volts RMS Minimum

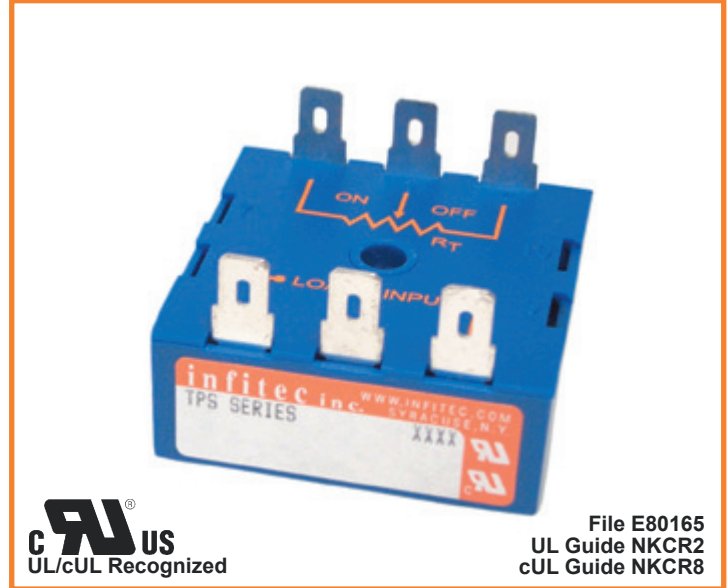
5. Mechanical

- 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 Dimension Diagram)

6. Environmental

- 6.1 Operating Temperature: -20°C to +80°C (1 Amp Models)
-20°C to +65°C (>1 Amp Models)
- 6.2 Storage Temperature: -30°C to +85°C
- 6.3 Humidity: 95% Relative, Non-Condensing

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



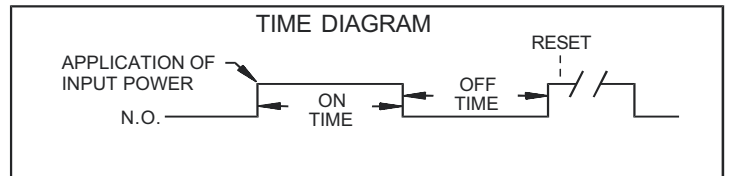
UL
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File E80165
UL Guide NKCR2
cUL Guide NKCR8

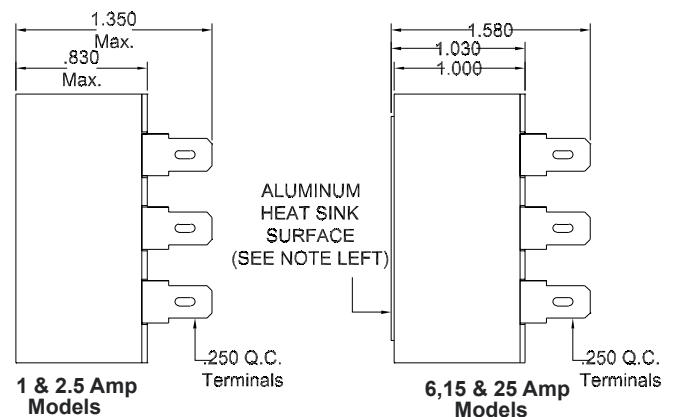
MODE OF OPERATION PERCENTAGE TIMER

Upon application of input power, the load will energize and de-energize for a percentage of the cycle time. The cycle time is controlled by the value of resistance applied to terminals 4, 5, and 6.

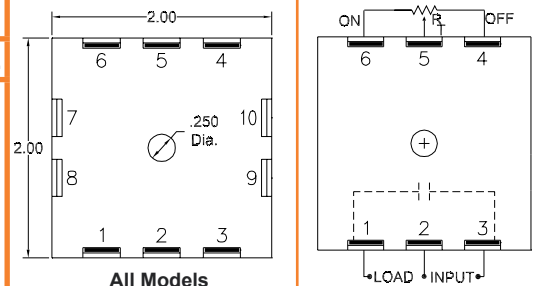
NOTE: The ON or OFF period can be set with a fixed resistance and the remaining delay adjusted with a potentiometer. Reset is accomplished by removal of input power



DIMENSIONS



CONNECTION



ORDERING INFORMATION

SERIES	INPUT VOLTAGE	OUTPUT RATING	ADJUST	TIME DELAY RANGE
TPS	1 - 12 VDC 2 - 24/28 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC 7 - 120/230 VAC	A - 1 Amp B - 6 Amp ◆◆ C - 15 Amp ◆◆ D - 2.5 Amp ◆◆ H - 25 Amp ◆◆ ◆ - AC Only ◆◆ - Heatsink compound required	2 - Remote Adjustment	See Time Delay Range Chart Note: Only ranges 1-6A available. Ranges 1, 1A & 1B require 100K Ohm external resistance. Other Ranges require 1 Megohm external resistance.