

## VTM-1 Series, Specification Grade, On-Delay, Timing Module

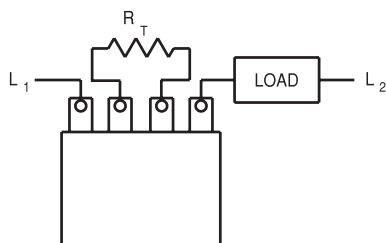


### Product Facts

- On-delay timing mode
- Timing from 1 to 1000 sec.
- 1A solid state SPST-NO output
- 0.25" (6.35) quick connect terminals
- Universal voltage: 24 to 240VAC/VDC
- Rated to 10 million operations
- File E60363, File LR51332



Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.



Wiring Diagram

### Timing Specifications

**Timing Mode** — On-Delay — VTM-1 in-line timing module is wired in series with the load circuit. Time delay is initiated when power is applied to the series network. Connecting a resistor across the center terminals provides tamper-proof setting of time delay from 1-1000 sec.

**Timing Ranges** — 1 to 1,000 sec.

**Timing Adjustment** — Time delay is set by connecting an appropriately rated resistor or potentiometer between the center two terminals. As supplied, the unit provides a nominal 1 second delay. Add 10k ohm of resistance for every additional second of delay required. For example: 5 seconds = 40k ohms; 10 seconds = 90k ohms.

**Accuracy** — Repeat Accuracy —  $\pm 2\%$

**Reset Time** — 100 ms, max., in the timing or time-out condition.

### Output Switch Data

**Arrangement** — 1 Form A (SPST-NO)

**Rating** — 5A, inductive, at nominal operating voltage.

**Inrush** — Not to exceed 10A for one cycle.

**Max. Leakage Current** — 4mA rms

**Expected Electrical Life** — 10,000,000 operations at rated load.

**Initial Dielectric Strength** — Between Active Terminals and Outside of Case — 1,480VAC for one min.

### Input Data @ 25°C

**Operating Voltage** — Universal — 24-240VAC/VDC (19-288VAC/VDC).

**Current** — 2mA (max.) required to operate timer regardless of output state.

**Power Requirement** — 3W max.

**Transient Protection** — MOV across input 2,000V for 11 $\mu$ s on line side of load.

### Environmental Data

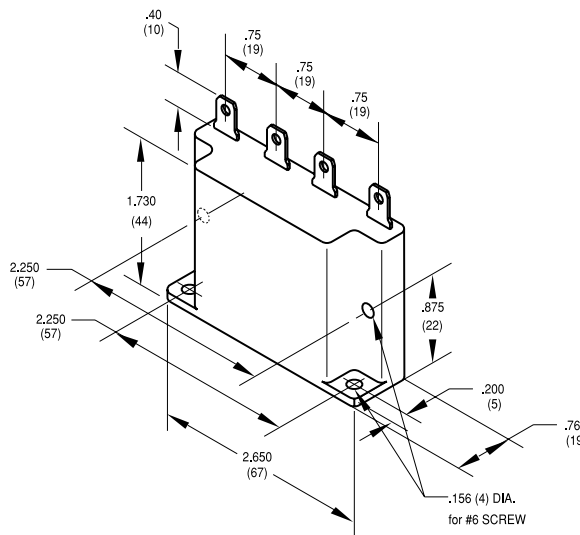
**Temperature Range** — Storage —  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
Operating —  $-30^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$

### Mechanical Data

**Mounting** — Screw mount in horizontal or vertical position through built-in mounting ears.

**Termination** — 0.250 in (6.35) quick connect terminals for input line, load output and timing resistor connection.

**Weight** — 3 oz. (84g) approximately



Outline Dimensions

### Ordering Information

Part Number	Mode	Input Voltage
VTM-1	On-Delay	24-240VAC or VDC

### Notes:

1. Do not operate timer without connecting load in series with line voltage.
2. For a time delay of 1 second, connect a jumper across the center two terminals.

Authorized distributors are likely to stock the following:

VTM-1

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