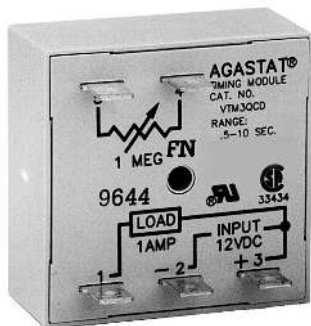


## VTM3 Series, Interval, Timing Module



### Product Facts

- Interval timing mode
- Reliable solid state timing circuitry
- Excellent transient protection
- Compact design
- Flame retardant, solvent resistant housing
- File E60363, File LR33434



### Timing Specifications

**Timing Mode** — Interval  
**Timing Ranges** — 0.5 to 10 / 3 to 60 sec.; 3 to 60 min.  
**Timing Adjustment** — External resistor. An external resistance of 1 megohm is required to obtain the maximum time for all ranges. To determine the actual resistance needed to obtain the required time delay, use the following formula:

$$R_T = \left( \left( \frac{T_{REQ} - T_{MIN}}{T_{MAX} - T_{MIN}} \right) \times 1,000,000 \right) + 5000 \text{ ohms}$$

### Accuracy

Maximum Time:  $\pm 2\%$  at  $R_T = 1$  Megohms  
 Minimum Time:  $+0\%$ ,  $-30\%$   $R_T = \text{ohms}$   
 Repeat Accuracy —  $\pm 5 + 8$  ms max (0.25% typical) at constant temperature for load of 10 mA to 1A

**Reset Time** — 1500 ms, max.

### Output Switch Data

**Arrangement** — Solid state 1 Form A (SPST-NO)  
**Rating** — 1A steady state.  
**Expected Electrical Life** — 100,000,000 operations at rated load.  
**Initial Dielectric Strength** — Between Terminals and Mounting — 3,000VAC rms. Between Input and Output — 1,500VAC rms.

### Input Data @ 25°C

**Voltage ( $\pm 10\%$ )** — 12 VAC/VDC, 24VAC/VDC, 120 VAC.  
**Power Requirement** — 4.3 VA with rated load

### Transient Protection

Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy. Line voltage with high inductive voltage noise could affect timer performance. Adding transorb or MOV at noise source is recommended.  
 Example: Contactor coils, motor

Operating Voltage	<0.1 ms	<1 ms
12, 24 VAC/VDC	860V*	208V*
120 VAC/	2,580V	2,150V*

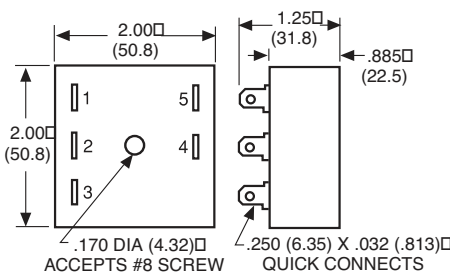
\* Min. source impedance of 100 ohms.

### Environmental Data

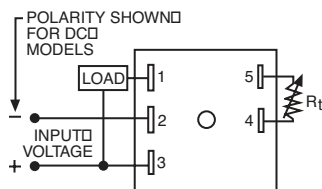
**Temperature Range** — Storage —  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$   
 Operating —  $-40^\circ\text{C}$  to  $+60^\circ\text{C}$   
 Humidity — 95% Relative

### Mechanical Data

**Mounting** — Panel mount with one #8 screw.  
**Termination** — 0.250 in (6.35) quick connect terminals.  
**Weight** — 4 oz. (112g) approximately



Outline Dimensions



Wiring Diagram

An external resistance of 1 megohm is required to obtain the maximum time for all ranges. To determine the actual resistance needed to obtain the required time delay, use the following formula for time between max and min time:

$$R_T = \left( \left( \frac{T_{REQ} - T_{MIN}}{T_{MAX} - T_{MIN}} \right) \times 1,000,000 \right) + 5000 \text{ ohms}$$

Note: Due to component tolerances actual time obtained will normally be within 5% of desired time.

### Ordering Information

VTM3	A	CD
Series VTM3 Interval Timing Module	Input Voltage A = 120VAC E = 24VAC/VDC Q = 12VAC/VDC	Time Range CD = 0.5 - 10 sec. DD = 3 - 60 sec. GD = 3 - 60 min.

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.

**Authorized distributors are likely to stock the following:**  
 None at present.