# VTM7 Series, Repeat Cycle, Timing Module

# Timing Specifications

Timing Mode — Repeat Cycle 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:

 $R_{T} = \left( \left( \begin{array}{c} \left( T_{REQ} - T_{MIN} \right) \\ T_{MAX} - T_{MIN} \end{array} \times 1,000,000 \right) + 5000 \right) ohms$ 

## Product Facts

Repeat cycle timing mode

AGASTAT®

- Independently adjustable On and Off times
- Reliable solid state timing circuitry
- Excellent transient protection
- Compact design
- Flame retardant, solvent resistant housing
- File E60363, File LR33434

(SP)



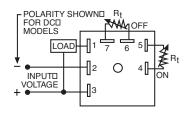


Maximum Time: ±2% at Rt = 1 Megohms

Minimum Time: +0%, -30% Rt = ohms Repeat Accuracy —  $\pm 0.5\% + 8$  ms max (0.25% typical) at constant temperature for load of 10 mA to 1A **Reset Time** — 300 ms, max.

#### 1.250 2.00□ (31.8) (50.8) - 8850 (22.5)5 0 6 2.00 4[] (50.8) 12 (0 6 .250 (6.35) X .032 (.813)□ QUICK CONNECTS .170 DIA (4.32) ACCEPTS #8 SCREW

### **Outline Dimensions**



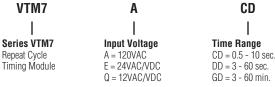
Wiring Diagram

### 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:

$$R_{T} = \left( \left( \frac{(T_{REQ} - T_{MIN})}{T_{MAX} - T_{MIN}} \times 1,000,000 \right) + 5000 \right) ohm$$

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

# Ordering Information



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.

### 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 (±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<br>Voltage | <0.1 ms | <1 ms   |
| 12,<br>24 VAC/VDC    | 860V*   | 208V*   |
| 120 VAC              | 2,580V  | 2,150V* |
|                      |         |         |

\* Min. source impedance of 100 ohms.

## **Environmental Data**

Temperature Range —

Storage — -40°C to +85°C Operating — -40°C to +60°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