# Specialty Relays

## AGASTAT® SJAME AGASTAT® SJAME AGASTAT® SJAME PARTIE AGASTAT® SJAME CAT NO PARTIE AGASTAT® SJAME AGASTAT AGASTA

### **Product Facts**

- One shot (latching interval) timing mode
- Reliable solid state timing circuitry
- Excellent transient protection
- **■** Compact design
- Flame retardant, solvent resistant housing
- File E60363, File LR33434





### VTM4 Series, One Shot (Latching Interval), Timing Module

### **Timing Specifications**

**Timing Mode** — One Shot (Latching Interval)

**Timing Ranges** — 0.5 to 10 / 3 to 60 sec.; 0.5 to 10 / 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:

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

### Accuracy -

Maximum Time:  $\pm 2\%$  at Rt = 1 Megohms

Minimum Time: +0%, -30% Rt = ohms Repeat Accuracy —  $\pm$ .5 + 8 ms max (0.25% typical) at constant temperatuere for load of 10 mA to 1A

Reset Time — 300 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 (±10%)** — 12 VAC/VDC, 24VAC/VDC, 120 VAC

**Power Requirement** — 4.3 VA max **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*

<sup>\*</sup> Min. source impedance of 100 ohms.

### **Environmental Data**

### Temperature Range —

Storage — -40°C to +85°C Operating — -40°C to +60°C Humidty — 95% relative

### **Mechanical Data**

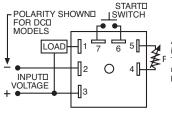
**Mounting** — Panel mount with one #8 screw.

**Termination** — 0.250 in (6.35) quick connect terminals.

Weight — 4 oz. (112g) approximately

### 2.000 (50.8) (22.5) (22

### **Outline Dimensions**



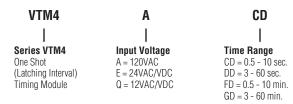
An external resistance of 1 megohm is required to obtain the maximum time for all ranges. To determine the actual resistance needed to obtain the required time delay, use the following formula for time between max and min time:

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

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

Wiring Diagram

### **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.

