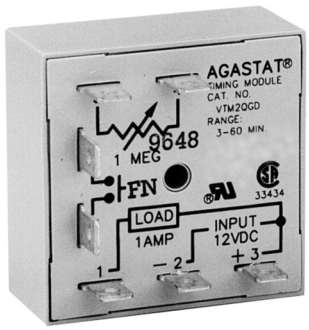
VTM2 Series, Off-Delay, Timing Module



Product Facts

- **Off-delay 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 — Off-Delay

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

Timing Adjustment — External resistor or potentiometer. 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:

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

Accuracy —
Repeat Accuracy — ±1%
Overall Accuracy — ±2% at R = 1 megohm

Reset Time — 50 ms, max.

Output Switch Data

Arrangement — Solid state 1 Form A (SPST-NO)

Rating — 1A, inductive, at nominal operating voltage.

Expected Electrical Life — 10,000,000 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/VDC.

Power Requirement — 4W with rated load

Transient Protection —
Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy.

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

* Min. source impedance of 100 ohm.

Environmental Data

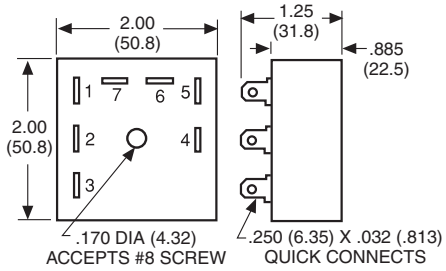
Temperature Range —
Storage — -40°C to +85°C
Operating — -40°C to +65°C

Mechanical Data

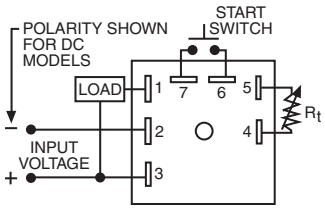
Mounting — Panel mount with one #8 screw.

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:

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

Ordering Information

VTM2	A	CD
Series VTM2	**Input Voltage**	**Time Range**
Off-Delay	A = 120VAC/VDC	CD = 0.5 - 10 sec.
Timing Module	E = 24VAC/VDC	DD = 3 - 60 sec.
	Q = 12VAC/VDC	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.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

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For additional support numbers please visit www.te.com