

Timing Mode

On-Delay.

Timing Specifications

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

$$R_t = \left(\frac{T_{re}}{T_m}\right)$$

$$= \left(\frac{T_{req} - T_{min}}{T_{max} - T_{min}}\right) \times 1,000,000 \text{ ohms}$$

Accuracy: Repeat Accuracy: ±1% Overall Accuracy: ±2% at R = 1 megohm. Reset Time: 100 ms, max., before time-out; 10 ms, max., after time-out.

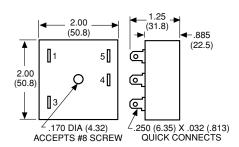
Output Switch Data

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.

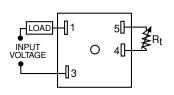
Initial Dielectric Strength

Between Terminals and Mounting: 3,000VAC rms. Between Input and Output: 1,500VAC rms.

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:

 $t = \left(\frac{T_{req} - T_{min}}{T_{max} - T_{min}}\right) \times 1,000,000 \text{ ohms}$

Dimensions are in inches over

Authorized distributors are likely to stock the following: VTM1ECD VTM1EDD

Specifications and availability
subject to change

www.tycoelectronics.com Technical support: 1241 Refer to inside back cover.

VTM1 series

On-Delay Timing Module

- On-delay timing mode
- Reliable solid state timing circuitry.
- Excellent transient protection.
- Compact design.
- · Flame retardant, solvent resistant housing.

AJ File E60363

(File LR33434)

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.

Input Data @ 25°C

Voltage: 12 VAC/VDC, 24VAC/VDC, 120 VAC/VDC.

Power Requirement: 3W, max.

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: 3 oz. (84g) approximately.

Ordering Information

VTM1	Α	CD
I		
Series VTM1	Input Voltage	Time Range
On-Delay	A = 120VAC/VDC	CD = 0.5 - 10 sec.
Timing Module	E = 24VAC/VDC	DD = 3 - 60 sec.
ů.	Q = 12VAC/VDC	FD = 0.5 - 10 min.
		$GD = 3 - 60 \min$

Dimensions are shown for reference purposes only.

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