**ABB SSAC** TMV01A01 06 17 02

## **Delay On Make (Operate)** TMV8000/TSU2000 Uni-Timer **Timing Module**





- Operates From 24 ... 240 V AC/DC
- Knob or Ext. Adjust Time Delays
- Delays from 0.1 ... 8 m
   Totally Solid State Encapsulated

**Technical Data** 

■ 1 A Steady - 10 A Inrush
■ Two Terminal Series Connection with Load

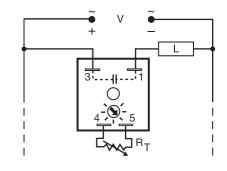
## Description

UNI-TIMER is truly the universal timer. Two models cover all the popular voltages and time delays. Available with knob or external adjust time delay. Its simple two terminals can easily be connected in series with a relay coil, contactor coil, solenoid, lamps, small motor, etc., to delay their energization.

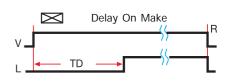
## **Operation**

Upon application of input voltage, the time delay begins. The output is de-energized before and during the time delay. At the end of the time delay, the output is energized and remains energized until input voltage is removed.

Reset: Removing input voltage resets the time delay and output.



Load may be connected to terminal 3 or 1. TMV has knob adjustment. TSU has external adjustment terminals 4 & 5.



V = Voltage R = Reset L = Load TD = Time Delay = Undefined time 

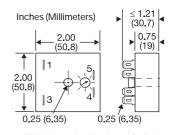
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	Approvals:



Input	Time Delay	Adjustment	Part Number
24 240 V AC/DC	5 480 s	External	TSU2000
24 240 V AC/DC	0.1 8 m	Knob	TMV8000

$R_{T}$	R <sub>T</sub> Selection Chart			
	Time Delay*			
50	Seconds	R <sub>T</sub>		
36	conus	Megohm		
	5	0.0		
	85	0.5		
	163	1.0		
	240	1.5		
	320	2.0		
	400	2.5		
	480	3.0		

\* When selecting an external R<sub>T</sub> add at least 20% for tolerance of unit and the R<sub>T</sub>.



TMV has the knob and dial. TSU has terminals 4 & 5.

P/N: P1023-6

screw adaptor

P/N: P1015-18

Versa-knob P/N: P0700-7

Female quick

. connect

D/NI-

## Time Delay Туре Analog circuitry 5 ... 480 s (TSU2000) Range 8 m (TMV8000) Repeat Accuracy +/-2% Tolerance (Factory Calibration) ≤ +/-10% Recycle Time ≤ 100 ms Input Voltage 24 ... 240 V AC/DC +/-20% Line Frequency 50 ... 60 Hz Output Type Solid State Normally Open, open during timing Form Maximum Load Current 1 A steady state, 10 A inrush at 55°C Minimum Holding Current ≤ 40 mA Voltage Drop 2.5 V at 1 A **Protection** Encapsulated Circuitry Dielectric Breakdown ≥ 2000 V RMS terminals to mounting surface Insulation Resistance ≥ 100 MΩ Mechanical Surface mount with one #10 (M5 x 0.8) screw Mounting P<u>ackage</u> 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm) 0.25 in. (6.35 mm) male quick connect terminals Termination **Environmental** Operating Temperature -20°C ... +70°C -30°C ... +85°C Storage Temperature Humidity 95% relative, non-condensing Weight ≅ 2.4 oz (68 g)

