

HORSEPOWER RATED

# HIGH CURRENT TIMING MODULE

**FULLY SOLID STATE ENCAPSULATED** 

**RATED TO 15 AMPERE / 1HP** 

# Series 641 - ON DELAY

**CMOS DIGITAL CIRCUITRY** 

- Life Expectancy –unlimited
- **Environment Protected**
- **Tamper Proof**
- No False Operate
- Switches 1800W @120V, 3600W @ 240V
- Small Size 2"x 2" x 15/16"
- Lightweight approximately 2.5 oz.

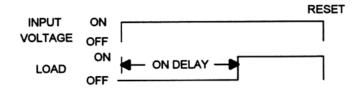
E98340 LR46938

- **Transient Protected to 6000V**
- Choice of 5, 10, 15 Amp. Load Rating

A solid state switch turns the load ON at the end of the preset timed period and remains in this condition until power is removed. Power to the timer must be applied continuously throughout the timing period. Removal or interruption of power causes the timer to reset. Circuit design is such that interruption of power during timing will not cause momentary activation of the load.

Control the timing of high power electric heaters, motors, lamps, transformers and other high current loads rated less than 15 amps (150 amps inrush). CMOS digital circuitry is combined with a high current solid state switch. P/C board and internal components are encapsulated in a flame retardant molded housing, fitted with quick connect wiring terminals. Available in all standard voltages and frequencies. Fixed or adjustable timing from .1 seconds to 24 hours.

## TIMING DIAGRAM



HOW TO ORDER 641(I) - (T)(V)(P)

### SPECIFICATIONS

- 1. Repeat Accuracy: ± 0.25%
- 2. Combined Effect of Temperature and Voltage upon Repeat Accuracy: ±2%
- 3. Reset Time: 150 ms.
- 4. Operating Voltage Tolerance: ± 20%
- 5. Load Current: Steady State 80 ma. Min., 5 Amps, 10 Amps, or 15 Amps Max.
- 6 Voltage Drop: 2.5V Typical at 15 Ampere
- 7. Leakage Current: 7 ma. max.
- 8. Dielectric Strength: 1500 VRMS
- 9. Insulation Resistance: 100 Megohms Min.
- 10. Input Transient Protection: 3000V 120V UNITS, 6000V 240V units
- 11. Temperature Ambients: Operating -40°C to +70°C Storage -55°C to +70°C
- 12. Humidity-Operating: 95% Relative
- 13. Linearity(Option A or D ): ±5% Minimum from 10% to 90% of range
- 14. Timing Tolerance: ±9% + Tolerance of Rt Std., ±5% Special (Fixed)
- 15. Maximum Allowable Bracket Temperature: 80°C
- 16. Isolation Output Switch to Bracket: 2500 VRMS
- 17. Maximum Inrush: 10 Times Rated Load Current

SERIE	(I) = CURRENT	(T) = TIME RANGE	(V)=VOLTAGE	(P) = OPTIONS
641	A = 5 AMP B = 10 AMP C = 15 AMP	P = 0.1 - 5 SEC. 1 = 0.1 - 10 SEC. L = 0.2 - 20 SEC. J = 0.3 - 30 SEC. M = 0.6 - 60 SEC. 2 = 1 - 100 SEC. K = 1.2 - 120 SEC. F = 2 - 180 SEC. E = 3 - 300 SEC. 3 = 10 - 1000 SEC. 4 = 0.1 - 10 MIN. G = 0.3 - 30 MIN. H = 0.6 - 60 MIN. 5 = 1 - 100 MIN. V = 3 - 300 MIN. 0 = 10 - 1000 MIN. D = 1 - 24 HRS.	4 = 24VAC 5 = 120VAC 6 = 240VAC	O - CUSTOMER SUPPLIES OWN POTENTIOMETER OR RESISTOR A - POTENTIOMETER SUPPLIED AS LOOSE PART *B - EXTERNALLY INSTALLED RESISTOR *C - FACTORY FIXED INTERNAL D - TRIMMER POTENTIOMETER INSTALLED ON TERMINALS R - INTERNAL POTENTIOMETER WITH THRU SHAFT S - INTERNAL POTENTIOMETER WITH SCREWDRIVER SLOT  * For Fixed Time Specify The Value In Seconds, Minutes, Or Hours  MADE IN USA

EXAMPLE P/N: 641A-340 This is an ON DELAY 5A Rated Solid State Timer with an adjustable 10 - 1000 second DELAY and an INPUT VOLTAGE of 24 VAC. The customer will supply the time adjust potentiometer or resistor.



American Control Products / Precision Timer a division of Prime Technology 344 Twin Lakes Road North Branford, CT 06471 Telephone: (203) 481-5721 Fax: (203) 481-8937

> Email: sales@primetechnology.com www.primetechnology.com

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SOLID STATE TIMING MODULE								
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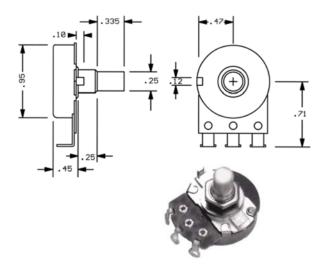
TECHNICAL BULLETIN

## **CALIBRATION RESISTANCE VS TIME**

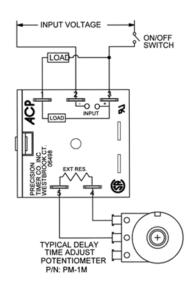
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## ACCESSORIES - AVAILABLE FROM STOCK

ORDER P/N: PM – 1M 1 MEGOHM ± 20% PM – 100K 100 KOHM ± 20%



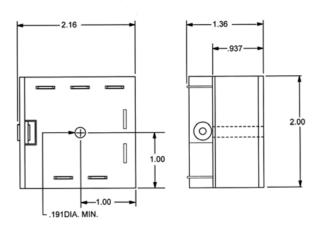
## TYPICAL WIRING



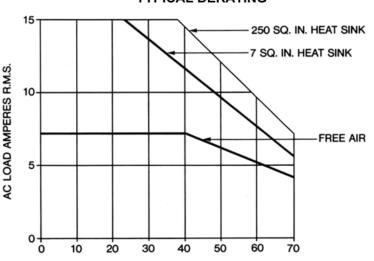
Current	HORSEPOWER				
Designation	120 V	240V			
A	1/8	1/6			
В	1/4	1/2			
С	1/3	1			

NOTE: Thermal joint compound is necessary to insure proper heat transfer from the Timing Module mounting surface to the heat sink.

## **OUTLINE DRAWING**



### **TYPICAL DERATING**



AMBIENT TEMPERATURE °C

**MADE IN USA** 



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