



HORSEPOWER RATED

HEAVY CURRENT TIMING RELAY

SOLID STATE ENCAPSULATED MODULE

30 AMPERE, SPDT 2 HP RATED

Series 843E – INTERVAL ON

CMOS DIGITAL CIRCUITRY



- Environment Protected
- Tamper Proof
- No False Operate
- Small Size – 2" x 3" x 1.35"
- Lightweight – approximately 2.5 oz.
- Rugged
- Transient Protected to 6000V

Application of power simultaneously starts timing of the preset interval and turns the load **ON**. At the end of the timed period the N/O load contact opens, turning OFF the load. Power to the timer must be applied continuously throughout the time period. Removal of power causes the timer to reset to T = 0. A new cycle can start by re-application of input voltage.

Control the timing of high power electric heaters, HP rated motors, lamps, transformers and other heavy current loads rated less than 30 amps Resistive. CMOS digital circuitry is combined with high current output relay contacts. 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



SPECIFICATIONS

1. Repeat Accuracy: $\pm 0.25\%$
2. Combined Effect of Temperature and Voltage upon Repeat Accuracy: $\pm 2\%$ of Setting
3. Reset Time: 150 ms.
4. Operating Voltage Tolerance: $\pm 20\%$
5. Load Current: 30 Amps General Purpose at 120/240VAC or 28VDC
1HP@120VAC, 2HP@240VAC
6. Dielectric Strength: 1500 VRMS
7. Insulation Resistance: 100 Megohms Min.
8. Input Transient Protection: 3000V 120V UNITS, 6000V 240V UNITS
9. Temperature Ambients: Operating -40°C to +70°C Storage -55°C to +85°C
10. Humidity-Operating: 95% Relative
11. Linearity (Option A or D): $\pm 5\%$ Minimum from 10% to 90% of range
12. Timing Tolerance: $\pm 9\%$ + Tolerance of Rt Std., $\pm 5\%$ Special (Fixed)
13. Contacts: SPDT Standard, SPST/NO Optional

843E – (T) (V) (P)

HOW TO ORDER 843AE – (T) (V) (P)

SERIES	(T) = TIME RANGE	(V)=VOLTAGE	(P) = OPTIONS
843E (SPDT)	P = 0.1 - 5 SEC.	1 = 12VDC	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
	1 = 0.1 - 10 SEC.	2 = 24VDC	
	L = 0.2 - 20 SEC.	3 = 48VDC	
	J = 0.3 - 30 SEC.	4 = 24VAC	
	M = 0.6 - 60 SEC.	5 = 120VAC	
	2 = 1 - 100 SEC.	6 = 240VAC	
	K = 1.2 - 120 SEC.	7 = 110VDC	
	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.			
6 = 10 - 1000 MIN.			
D = 1 - 24 HRS.			
843AE (SPST/NO)			

** For Fixed Time Specify The Value In Seconds, Minutes, Or Hours*

MADE IN USA

EXAMPLE P/N: 843E-46C/5M This is an INTERVAL ON 30A SPDT Rated Timer with a fixed 5 minute delay and an INPUT VOLTAGE of 240 VAC. The delay time is internally fixed.

American Control Products / Precision Timer
a division of Prime Technology
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North Branford, CT 06471
Telephone: (203) 481-5721
Fax: (203) 481-8937
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www.primetechnology.com



TECHNICAL BULLETIN

SOLID STATE TIMING MODULE

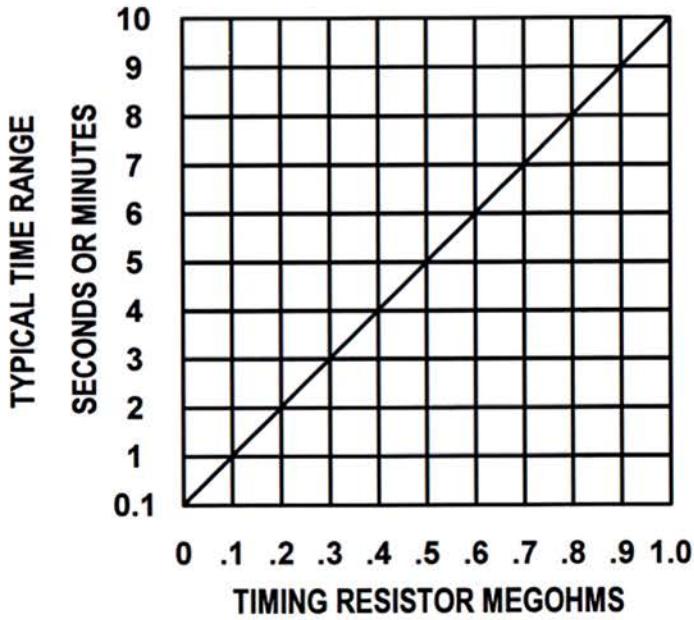
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OF 2

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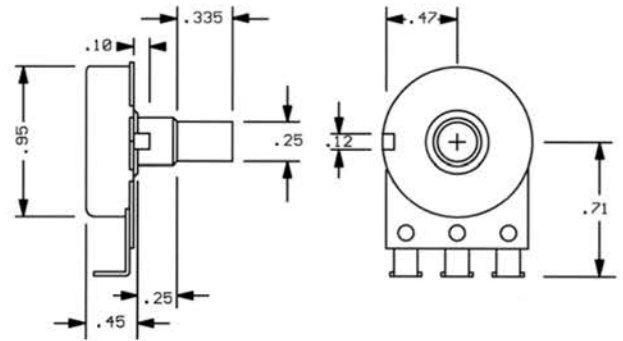
843E

REV
C

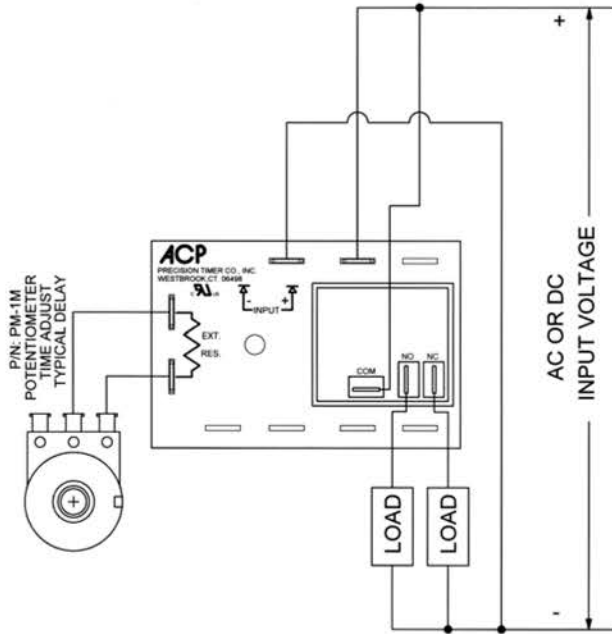
TYPICAL CALIBRATION RESISTANCE VS TIME



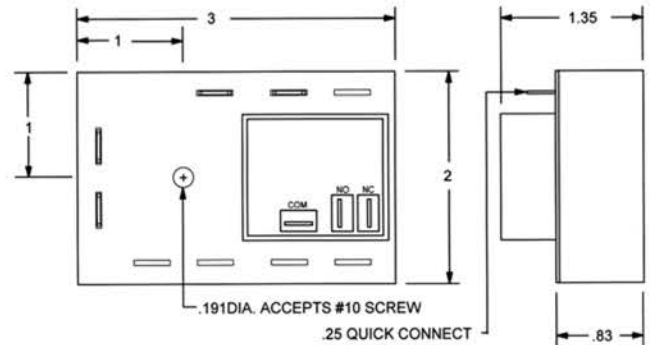
ACCESSORIES AVAILABLE FROM STOCK
CONTROL POTENTIOMETERS (OPTION A)
ORDER P/N PM-1M 1 MEGOHM ± 20%



TYPICAL WIRING



OUTLINE DRAWING



MADE IN USA

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843E

REV
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