



HORSEPOWER RATED

HEAVY CURRENT TIMING RELAY

SOLID STATE ENCAPSULATED MODULE
30 AMPERE, SPDT, 2 HP RATED
Series 845E – RECYCLE / FLASHER
CMOS DIGITAL CIRCUITRY

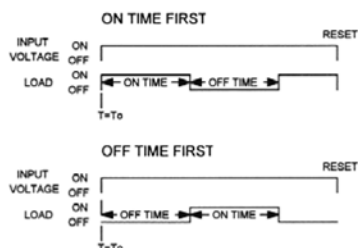
CALUS
E98340

- 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**. The load stays On for the preset On time then turns OFF for an equal length of time. The ON/OFF cycling of the load continues until power is turned OFF. Cycling can be specified as OFF/ON see below. Removal or interruption of power at any time during the cycle will cause the timer to reset.

Control the timing of high power electric heaters, HP rated motors, lamps, transformers and other high 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



HOW TO ORDER

845E – (T) (V) (P)
845EA – (T) (V) (P)
845ER – (T) (V)
845EAR – (T) (V) (P)

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
1 HP@120VAC, 2 HP@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

SERIES	(T) = TIME RANGE	(V)=VOLTAGE	(P) = OPTIONS
845E (SPDT) ON FIRST	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.	1 = 12VDC 2 = 24VDC 3 = 48VDC 4 = 24VAC 5 = 120VAC 6 = 240VAC 7 = 110VDC	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
845EA (SPST/NO) ON FIRST	2 = 1 - 100 SEC. K = 1.2 - 120 SEC. F = 2 - 180 SEC. E = 3 - 300 SEC.		
845ER (SPDT) OFF FIRST	3 = 10 - 1000 SEC. 4 = 0.1 - 10 MIN. G = 0.3 - 30 MIN. H = 0.6 - 60 MIN. 5 = 1 - 100 MIN. Q = 2 - 180 MIN. V = 3 - 300 MIN. W = 4 - 360 MIN. 6 = 10 - 1000 MIN. D = 1 - 24 HRS.		
845EAR (SPST/NO) OFF FIRST			

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

MADE IN USA

EXAMPLE P/N: 845E-15C/1S This is a RECYCLE/FLASHER 30A SPDT Rated Timer with a fixed 1 second On and OFF time(equivalent to 30 FPM). The INPUT VOLTAGE is 120 VAC. The cycle time is internally fixed.



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TECHNICAL BULLETIN

SOLID STATE TIMING MODULE

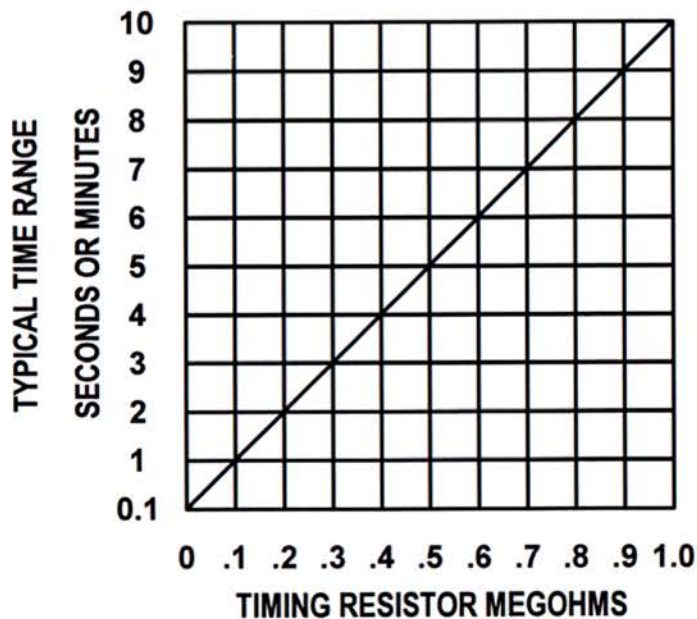
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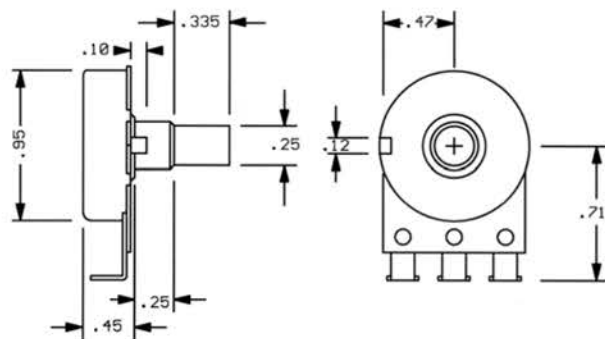
845E

REV
C

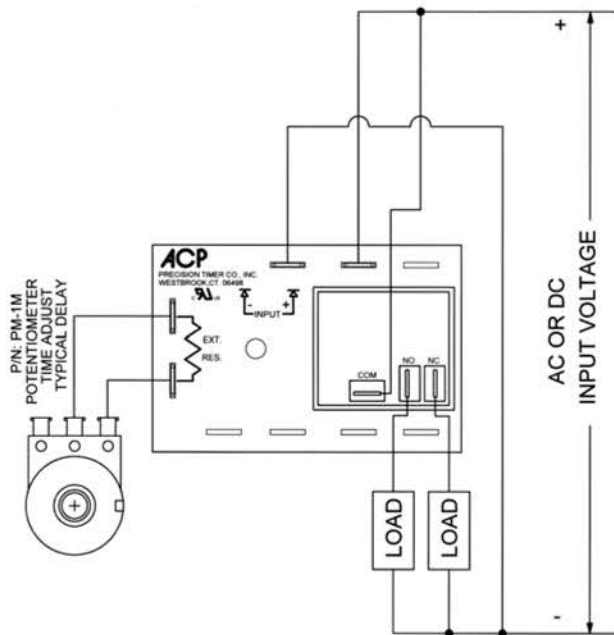
TYPICAL CALIBRATION RESISTANCE VS TIME



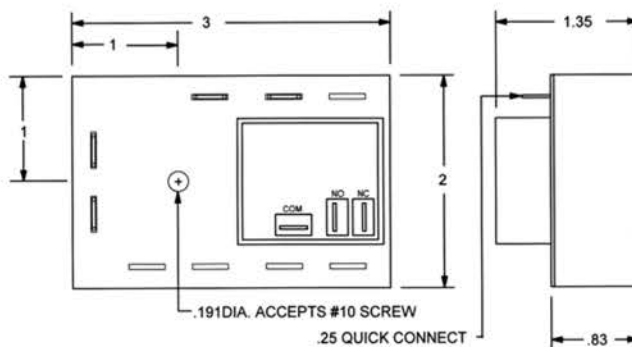
ACCESSORIES AVAILABLE FROM STOCK
CONTROL POTENTIOMETERS (OPTION A)
ORDER P/N PM-1M 1 MEGOHM $\pm 20\%$



TYPICAL WIRING



OUTLINE DRAWING



MADE IN USA

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845E

REV
C

PRIME
TECHNOLOGY