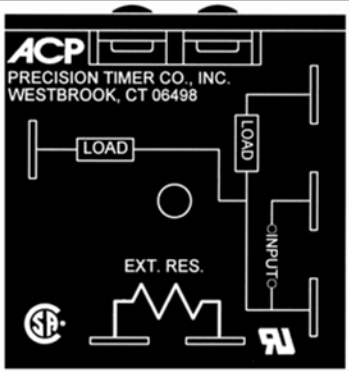


HORSE POWER RATED

HIGH CURRENT TIMING MODULE

FULLY SOLID STATE ENCAPSULATED

RATED TO 15 AMPERE / 1HP

E98340 LR46938

Series 6455 - ALTERNATING TIMER /FLASHER

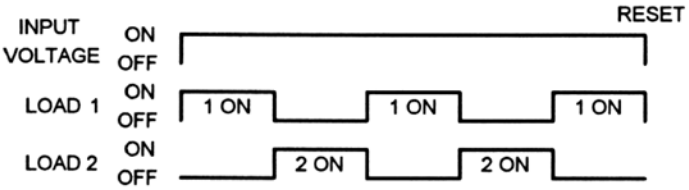
CMOS DIGITAL CIRCUITRY

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

Application of power starts the ON/OFF (T1/T1) timing. Load 1 turns ON and at the end of time T1 turns OFF. Load 2 will immediately turn ON and at the end of another T1 time will turn OFF. Load 1 and load 2 are never on at the same time. They are alternately energized. Removal of input voltage will interrupt the load current and reset the timing cycle, and the load. Re-application of input voltage starts a new timing cycle at T = 0. Removal of power causes the timer to reset. ON time = OFF time. OFF time can be first, see the table below.

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



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

HOW TO ORDER 6455(I) - (T) (V) (P)

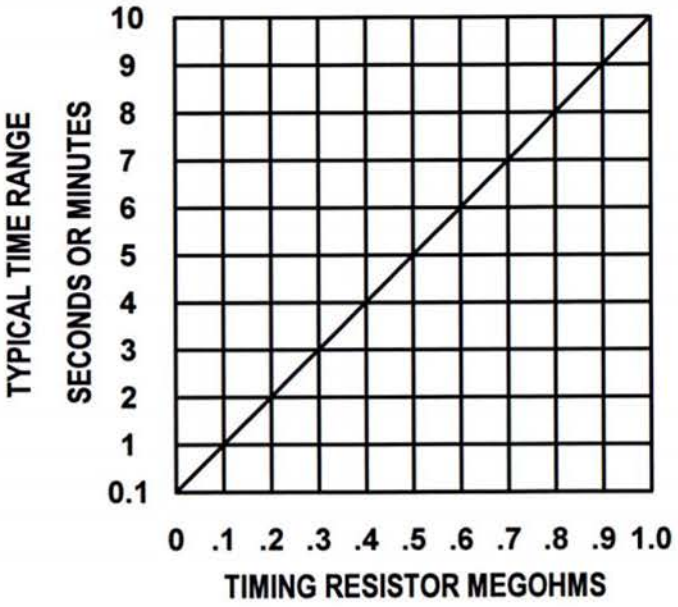
SERIES	(I) = CURRENT	(T) = TIME RANGE	(V)=VOLTAGE	(P) = OPTIONS
6455	A = 5 AMP B = 10 AMP C = 15 AMP	P = 0.1 - 5 SEC. 1 = 0.1 - 10 SEC. L = 0.2 - 20 SEC. J = 0.3 - 30 SEC. M = 0.6 - 60 SEC. 2 = 1 - 100 SEC. K = 1.2 - 120 SEC. F = 2 - 180 SEC. E = 3 - 300 SEC. 3 = 10 - 1000 SEC. 4 = O.1 - 10 MIN. G = 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.	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: 6455C-14C/1S This is an ALTERNATING 15A Rated Solid State Timer with a fixed 1 second ON and OFF time (equivalent to 30 FPM) ALTERNATELY actuating 2 loads at 30 FPM. The INPUT VOLTAGE is 24 VAC. The ON & OFF time is factory fixed internal.

PRIME TECHNOLOGY

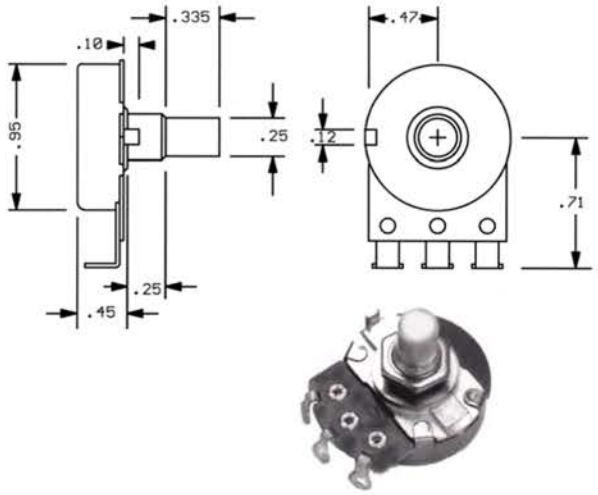
American Control Products / Precision Timer
a division of Prime Technology
344 Twin Lakes Road
North Branford, CT 06471
Telephone: (203) 481-5721
Fax: (203) 481-8937
Email: sales@primetechnology.com
www.primetechnology.com

CALIBRATION RESISTANCE VS TIME

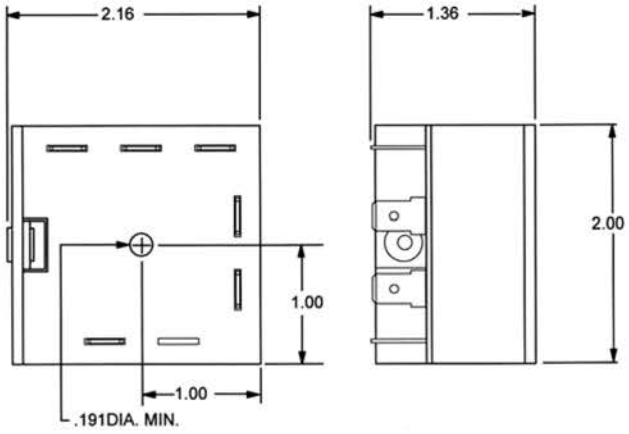


ACCESSORIES – AVAILABLE FROM STOCK

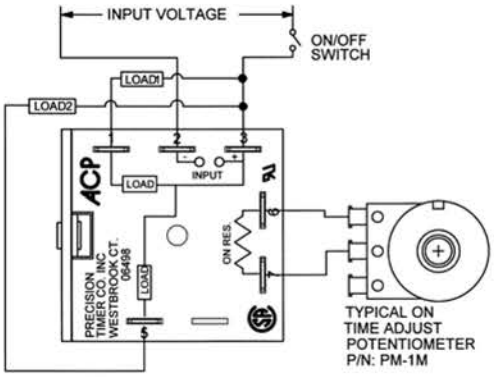
ORDER P/N: **PM – 1M 1 MEGOHM ± 20%**
PM – 100K 100 KOHM ± 20%



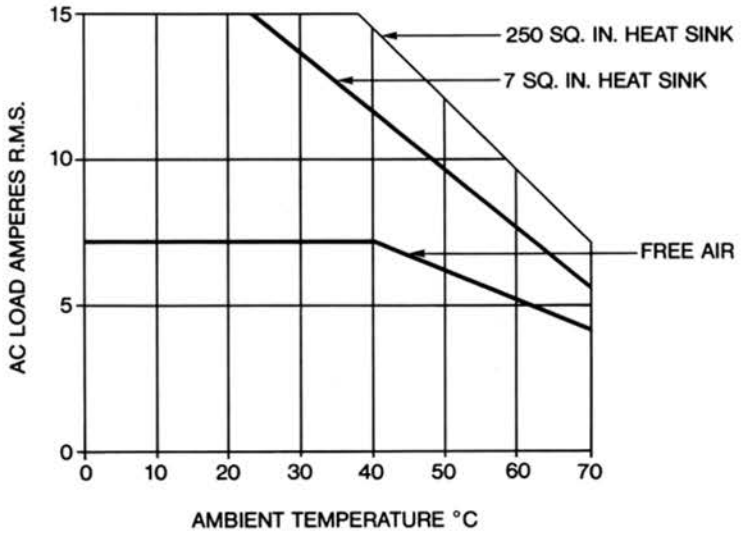
OUTLINE DRAWING



TYPICAL WIRING



TYPICAL DERATING



Current Designation	HORSEPOWER	
	120 V	240V
A	1/8	1/6
B	1/4	1/2
C	1/3	1

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

MADE IN USA

PRIME TECHNOLOGY

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Fax: (203) 481-8937
Email: sales@primetechnology.com
www.primetechnology.com

TECHNICAL BULLETIN

SOLID STATE TIMING MODULE