

HORSEPOWER RATED

HIGH CURRENT TIMING RELAY LOW COST OPEN CONSTRUCTION 10 AMPERE CONTACTS 1/3HP RATED Series 681B - ON DELAY

CMOS DIGITAL CIRCUITRY

- Environment Protected
- Tamper Proof Relay
- No False Operate
- Enclosed Relay SPDT or DPDT
- Small Size 3.625"x 2.125" x 1 1/16"
- Lightweight approximately 2.5 oz.
- Rugged 4 hole mounting
- Transient Protected to 6000V

Input power when applied starts the ON delay timing. When the preset time delay has run out, the on board relay is energized and the load is turned ON. The load will remain ON until the input power is removed. Power must be applied during timing and after time out, or as long as necessary to keep the load energized. Momentary loss of power during timing will not cause momentary actuation of the load. Remove the input voltage to reset.

Control the timing of high power electric heaters, FHP rated motors, lamps, transformers and other high current loads rated less than 10 amps Resistive. CMOS digital circuitry is combined with high current output relay contacts. P/C board and components are covered with a moisture resistant coating. Wiring terminals are ¼ quick connect. 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%

RESET 2. Combined Effect of Temperature and Voltage upon Repeat Accuracy: ±2%

3. Reset Time: 150 ms.

4. Operating Voltage Tolerance: ± 20%

5. Load Current: 10 Amps Resistive at 120/240VAC or 28VDC

1/3HP@120VACor240VAC

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): ±5% Minimum from 10% to 90% of range

12. Timing Tolerance: ±9% + Tolerance of Rt Std., ±5% Special (Fixed)

INPUT ON VOLTAGE OFF ON ON DELAY

HOW TO ORDER 681(N) - (T)(V)(P)

SERIE	(T) = TIME RANGE	(V)=VOLTAGE	(P) = OPTIONS
681B SPD1 681BI DPD1	E = 3 - 300 SEC. 3 = 10 - 1000 SEC. 4 = 0.1 - 10 MIN. G = 0.3 - 30 MIN. H = 0.6 - 60 MIN.	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 A LOOSE PIECE *C - FACTORY FIXED W - POTENTIOMETER WITH WHEEL ON BOARD * For Fixed Time Specify The Value In Seconds, Minutes, Or Hours
	5 = 1 - 100 MIN. V = 3 - 300 MIN. 6 = 10 - 1000 MIN. D = 1 - 24 HRS.		MADE IN USA

EXAMPLE P/N: 681BB-34W This is a DPDT ON DELAY 10A Rated Relay Output Solid State Timer with an adjustable 10 – 1000 second DELAY and an INPUT VOLTAGE of 24 VAC. The time adjust potentiometer with wheel is on the P/C board.

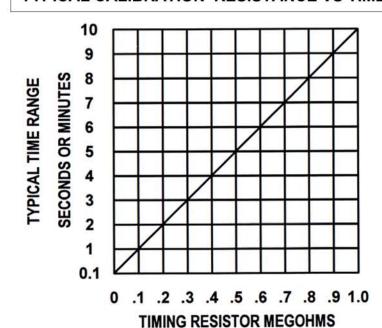


American Control Products / Precision Timer a division of Prime Technology 344 Twin Lakes Road North Branford, CT 06471 Telephone: (203) 481-5721

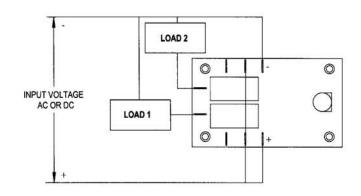
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TECHNICAL BULLETIN									
OPEN SOLID STATE TIMER									
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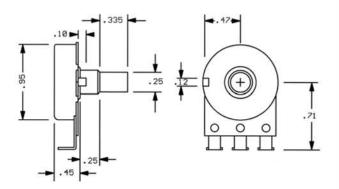
TYPICAL CALIBRATION RESISTANCE VS TIME



TYPICAL WIRING

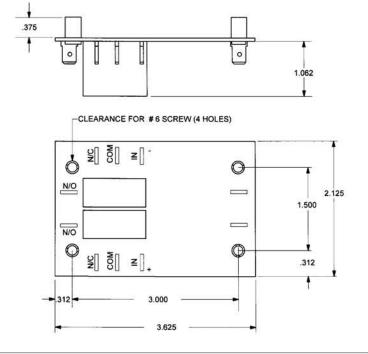


ACCESSORIES AVAILABLE FROM STOCK CONTROL POTENTIOMETERS (OPTION A) ORDER P/N PM-1M 1 MEGOHM ± 20%





OUTLINE DRAWING





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SOLID STATE TIMING MODULE

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