

B SERIES BINARY DIGITAL PLUG-IN TIME DELAY RELAY

FEATURES

- C/MOS Digital Circuitry
- Delays, Switch Selectable In Three Setting Ranges
- 1% Setting Accuracy
- .1% Repeat Accuracy
- Four Modes Of Operation
- No First Cycle Effect
- Wide Voltage Selection 24-230 VAC, 12-110 VDC
- 10 Ampere DPDT Output Rating
- LED Timing Indication
- Octal, 11 Pin, Stab/Square Base Plug-In Termination
- Rocker Type Time Delay Adjustment Switches For Positive Switch Settings

SPECIFICATIONS

1. Time Delay.

- 1.1 Type: C/MOS digital circuitry
- 1.2 Range: Three ranges available. Setting of the delay is accomplished via a 10 position dip switch located on the control's top surface. The required delay is selected by the addition of individual switch delays set in the on position. (See ordering information)
- 1.3 Repeat accuracy: $\pm 1\%$ under fixed conditions
- 1.4 Setting accuracy: $\pm 1\%$
- 1.5 Reset time: 50 milliseconds maximum
- 1.6 Recycle time: 100 milliseconds during timing
50 milliseconds after timing
- 1.7 Time delay vs. voltage and temperature: $\pm 2\%$

2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC,
12, 24/28 & 110 VDC
- 2.2 Tolerance: $\pm 20\%$ of nominal
- 2.3 Frequency: 50 - 60 Hertz

3. Output.

- 3.1 Type: Electromechanical relay
- 3.2 Form: DPDT or SPDT (see connection diagram)
- 3.3 Rating: 10 amperes resistive @ 120 VAC
- 3.4 Life: Electrical - full load - 1,000,000 operations
Mechanical - 10,000,000 operations

4. Protection.

- 4.1 Transient: ± 1500 volts for 150 microseconds
- 4.2 Polarity: D.C. units are reverse polarity protected
- 4.3 Dielectric breakdown: 1500 volts RMS minimum

5. Mechanical.

- 5.1 Mounting: Plug-in
- 5.2 Termination: Octal, 11 pin or stab/square base plug-in

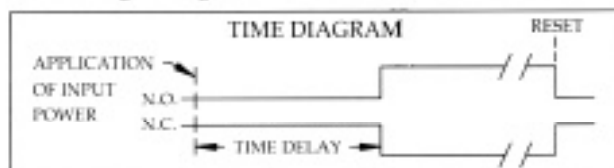
6. Environmental.

- 6.1 Operating temperature: -20°C to $+80^{\circ}\text{C}$
- 6.2 Storage temperature: -30°C to $+85^{\circ}\text{C}$



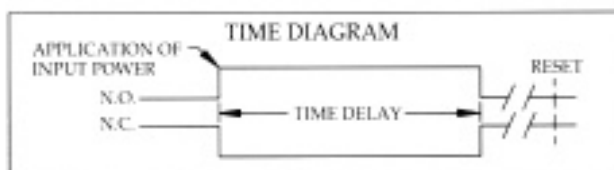
MODE OF OPERATION - SERIES DELAY ON MAKE - BMR

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contacts transfer. Reset is accomplished by removal of input power. There is no false output when reset during timing.



INTERVAL - BIR

Upon application of power to the input terminals, the output contacts immediately transfer and the time delay begins. At the completion of the pre-selected time delay, the output contacts revert to their original position. Reset is accomplished by removal of input power.



SINGLE SHOT - BSR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.

