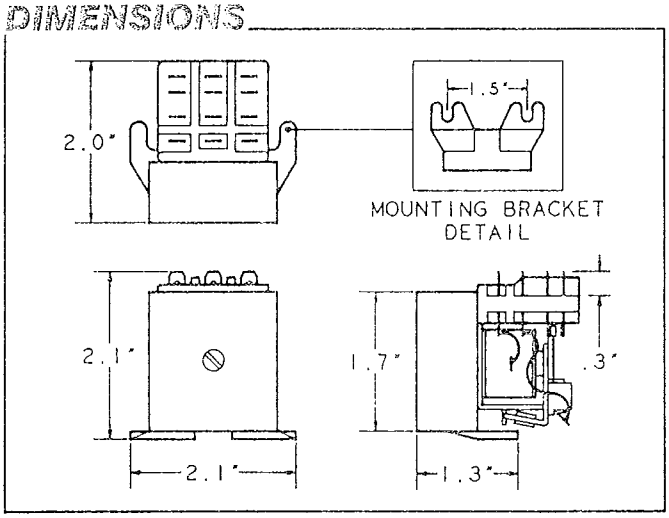
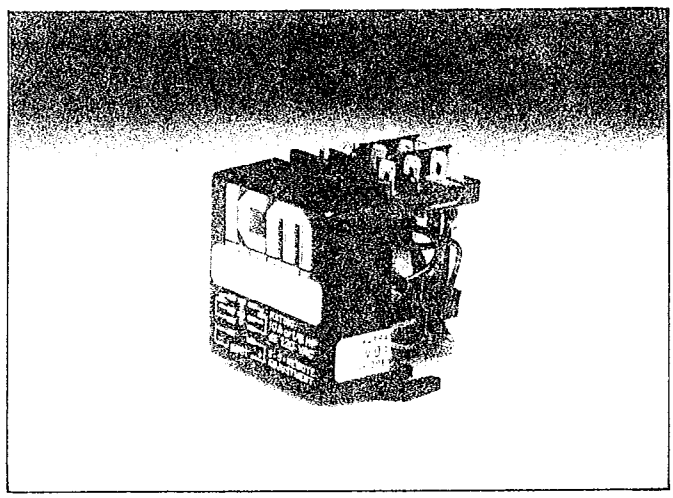
MAR: DELAY ON MAKE

DIMENSIONS





FEATURES

- Fixed or remote adjustable delays 0.1 to 600 seconds
- Reset during timing without false output
- Quick-connect solder terminals
- UL recognized: File #E-48278
- CSA recognized: File #30320
- Completely isolated case
- Repeat accuracy ±2%
- No false turn-on
- Economical

The compact construction of the MAR timer delivers a 10 amp DPDT switching capability and is economically priced. The exposed terminal base allows direct wiring to the relay providing an economic alternative to expensive sockets.

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

TIME DELAY

- Type: Factory fixed or remote adjustment. This is accomplished by providing two terminals in the relay panel for remote potentiometer
- Range: 0.1 to 600 seconds
- Repeat Accuracy: ±2% under fixed conditions
- Fixed Delay Accuracy: ±5%, ±10%, or ±20%
- Time Delay vs Temperature and Voltage: ±10% maximum over the specified range of input voltage and temperature

RESET TIME

- During and After Timing: 75 milliseconds
- May be reset during timing period without false transfer of output terminals

INPUT

- Nominal Voltage: 24 to 230 volts
- Tolerance: ±15% of nominal
- Frequency: 50 or 60 Hertz
- Maximum Allowable DC Ripple Voltage: 20% peak-to-peak
- Power Consumption: During timing 0.5 watt maximum, after timing 4.0 watts maximum

OUTPUT

- Type: Relay
- Form: DPDT
- Rating: 10 A resistive at 115 VAC; 1/6 H.P. at 115 VAC;1/3 H.P. at 230 VAC
- Life: Mechanical 10,000,000 operations; full load 1,000,000 operations

PROTECTION

- Transient: ±1,400 volts for 100 microseconds
- Polarity: DC units are inverse voltage protected
- Dielectric Breakdown: 1,500 V RMS minimum at 60 Hz
- Insulation Resistance: 100 megohms minimum

MECHANICAL SPECIFICATIONS

- Mounting: Surface mount using two #6, #8, or #10 screws
- Termination: 3/16" male quick-connect solder terminals
- Weight: 4 ounces (115 grams)

ENVIRONMENTAL SPECIFICATIONS

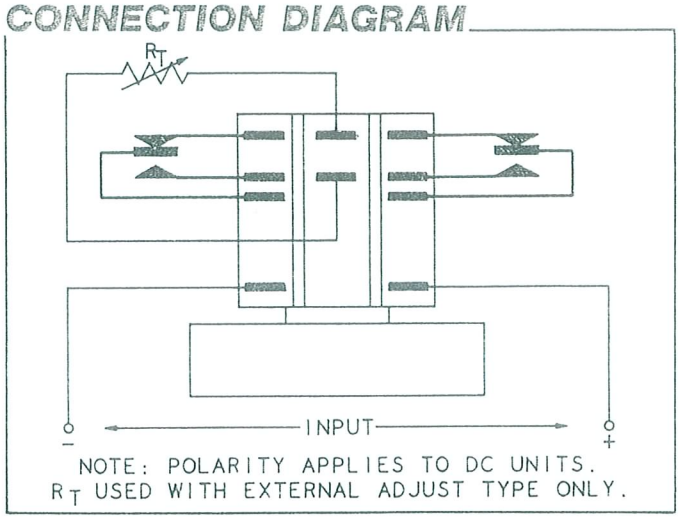
- Operating Temperature: −20° C to +55° C
- Storage Temperature: −40° C to +65° C

INTERNATIONAL CONTROLS AND MEASUREMENTS CORPORATION
PO BOX 2819, SYRACUSE, NY 13220; (TEL) 315-699-5266, (TWX) 710-545-0235

M SERIES TYPE: MAR

DELAY ON MAKE

CONNECTION DIAGRAM

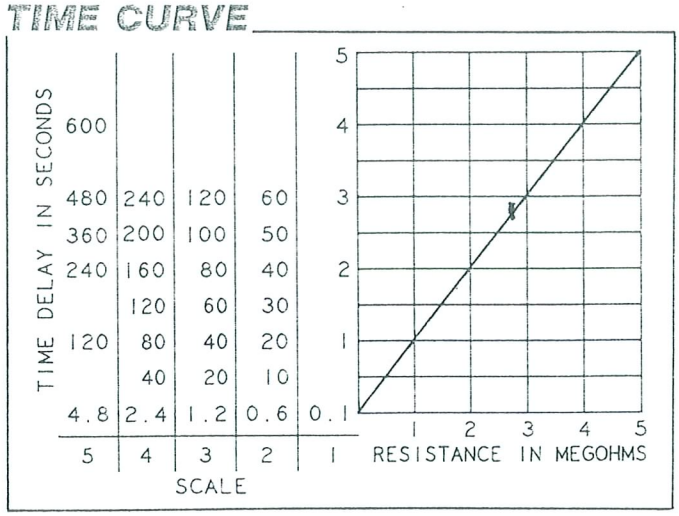


NOTE: POLARITY APPLIES TO DC UNITS.
R_T USED WITH EXTERNAL ADJUST TYPE ONLY.

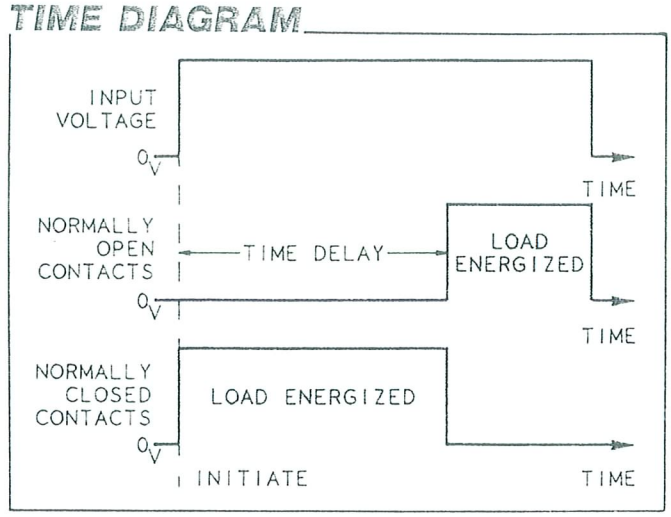
MODE OF OPERATION

The MAR time delay period initiates when power is applied to the input terminals. At the end of the delay period, the output contacts transfer. Reset is accomplished by removing the input power. MAR may be reset anytime during the time delay period without false output operation.

TIME CURVE



TIME DIAGRAM



ORDERING INFORMATION:

CONSULT THE FACTORY FOR VARIATIONS NOT LISTED

TYPE = MAR

Sample Part Number

MAR	115A	1	X	120

TYPE

INPUT VOLTAGE:

24D = 24 VDC	24A = 24 VAC
28D = 28 VDC	115A = 115 VAC
110D = 110 VDC	230A = 230 VAC

CONTROL METHOD:
1 = Fixed
5 = Remote without potentiometer

FIXED TIME TOLERANCE:
X = ±20%
Y = ±10%
Z = ± 5%
R = -0% +40%

TIME DELAY:
5 = 0.1 to 5
60 = 0.6 to 60
120 = 1.2 to 120
240 = 2.4 to 240
600 = 4.8 to 600
For fixed delays, specify in seconds

Note: Specifications are subject to change without notice.

INTERNATIONAL CONTROLS AND MEASUREMENTS CORPORATION
PO BOX 2819, SYRACUSE, NY 13220; (TEL) 315-699-5266, (TWX) 710-545-0235