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TRR & TDIR SERIES DIGITAL ENCAPSULATED TIME DELAY RELAY MODULE

UL/cUL Recognized

File E125360
UL Guide NMFT2
cUL Guide NMFT8

FEATURES

- C/MOS Microcontroller Circuitry
- Independent Local Timing Adjustments
- Time Delays to 1000 Minutes
- Encapsulated to Withstand Harshest Environments
- No First Cycle Effect
- 0.5% Repeat Accuracy
- Three Modes of Operation
- Low Cost Mounting and Termination
- SPDT Relay Output Rated 10 Amps, 1/4hp @ 125 VAC
- UL/cUL Recognized

SPECIFICATIONS

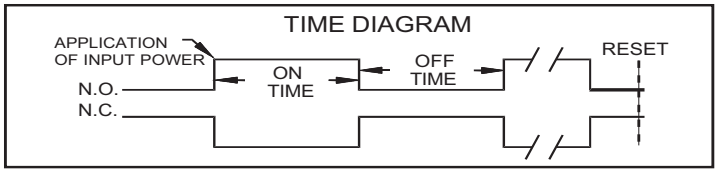
1. Time Delay
1.1 Type: C/MOS Microcontroller Circuitry
1.2 Range: From 0.05 Seconds to 1000 Minutes
Fixed Delays Available
1.3 Repeat Accuracy: ±0.5% Under Fixed Conditions
1.4 Setting Accuracy: ±10%
1.5 Reset Time: 100 Milliseconds Maximum
1.6 Recycle Time: 150 Milliseconds
1.7 Time Delay vs. Voltage and Temperature: ±2%
2. Input
2.1 Operating Voltage: 24, 120, & 230 VAC, 12 & 24/28 VDC
2.2 Tolerance: ±20% of Nominal
2.3 Frequency: 50 - 60 Hertz
3. Output
3.1 Type: Electromechanical Relay
3.2 Form: SPDT
3.3 Rating: 10 Amperes, 1/4hp N.O. @ 125/240 VAC
5 Amperes, 1/4hp N.C. @ 125/240 VAC
3.4 Life: Electrical - Full Load - 100,000 Operations
Mechanical - 10,000,000 Operations
4. Protection
4.1 Transient: ±1500 Volts for 150 Microseconds
4.2 Polarity: DC Units are Reverse Polarity Protected
4.3 Dielectric Breakdown: 1500 Volts RMS Minimum
5. Mechanical
5.1 Mounting: One #8 or #10 Screw
5.2 Termination: 1/4" Quick Connect Terminals
5.3 Style: Surface Mount/Encapsulated
6. Environmental
6.1 Operating Temperature: -40°C to +85°C
6.2 Storage Temperature: -40°C to +85°C
6.3 Humidity: 95% Relative Non-Condensing

MODE OF OPERATION SERIES

ON/OFF RECYCLE TRR

Upon application of power to the input terminals, the ON delay begins and the output contact transfers. Upon completion of the ON delay, the output contact reverts back to its original position and the OFF delay begins. Upon completion of the OFF delay, the output contact again

ON/OFF RECYCLE CONT'D
transfers and the cycle repeats. Reset is accomplished by removal of input power.

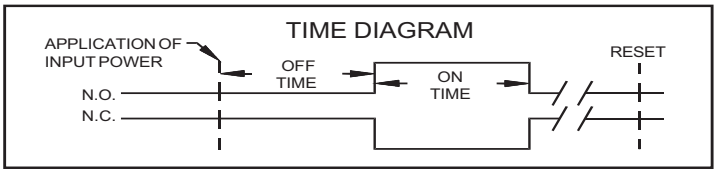


OFF/ON RECYCLE TRR

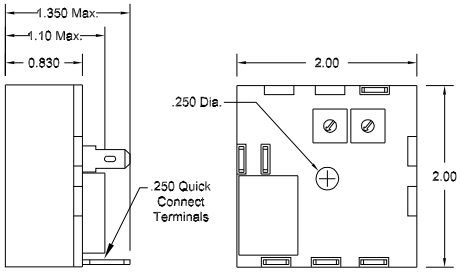
The inverse of ON/OFF Recycling.

DELAYED INTERVAL TDIR

Upon application of power to the input terminals, the OFF delay begins. Upon completion of the OFF delay, the output contact transfers and the ON delay begins. Upon completion of the ON delay, the output contact reverts to its original position. Reset is accomplished by removal of input power.



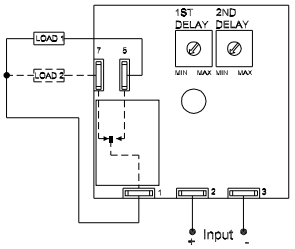
DIMENSIONS



ORDERING INFORMATION

SERIES	INPUT VOLTAGE	ADJUSTMENT	CYCLE	1ST DELAY	2ND DELAY
TRR **TDIR**	**1 -** 12 VDC **2 -** 24/28 VDC **4 -** 24 VAC **5 -** 120 VAC **6 -** 230 VAC	**0 -** Both Delays Local Adj. **0A -** 1st Delay Fixed 2nd Delay Local **0B -** 1st Delay Local 2nd Delay Fixed **1 -** Both Delays Factory Fixed	**TRR ONLY** **1 -** On Time First **2 -** Off Time First	**See Time Delay Range Chart**	**See Time Delay Range Chart**

CONNECTION DIAGRAM



LOAD 2 = AUXILIARY LOAD (off when Load 1 is on)