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TAR SERIES ALTERNATING RELAY MOTOR DUPLEXOR

FEATURES

- C/MOS Microcontroller Circuitry
- Small size
- Alternating Function With Lockout Option For Performing Maintenance
- SPDT Relay Output, Rated 10 Amps, 1/4 hp @ 125 VAC
- 24, 120 or 230 VAC Inputs Available
- 1/4" Quick Connect Terminals
- Single Hole Mounting
- Encapsulated to Withstand Harshest Environments
- UL/cUL Recognized

SPECIFICATIONS

1. Control.

- 1.1 Type: Electronic circuitry provides electrical switching between two circuits to alternate loads in systems where equal run time for two motors is desirable.
- 1.2 Optional Switch: An on-board, rotary switch can be ordered to lock in either load 'A' or load 'B' position to stop the unit from alternating while maintenance is performed on the other load.

2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC,
- 2.2 Tolerance: $\pm 20\%$ 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 Dielectric breakdown: 1500 volts RMS minimum

5. Mechanical.

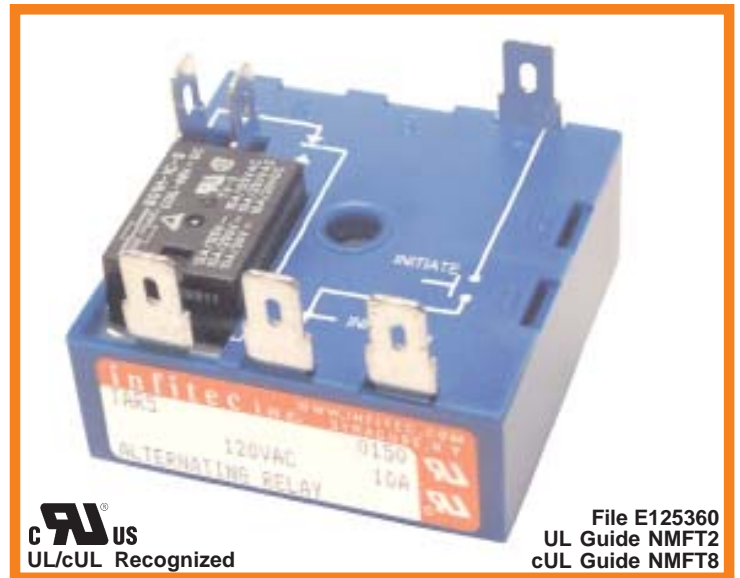
- 5.1 Mounting: One #8 or #10 screw
- 5.2 Termination: 1/4" quick connect terminals
- 5.3 Style: Surface mount / encapsulated

6. Environmental.

- 6.1 Operating temperature: -40°C to $+85^{\circ}\text{C}$
- 6.2 Storage temperature: -40°C to $+85^{\circ}\text{C}$
- 6.3 Humidity: 95% relative, non-condensing

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	LOCKOUT OPTION
TAR	3 - 5 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC 9 - 36 VDC	S - Rotary Switch Blank - No Switch



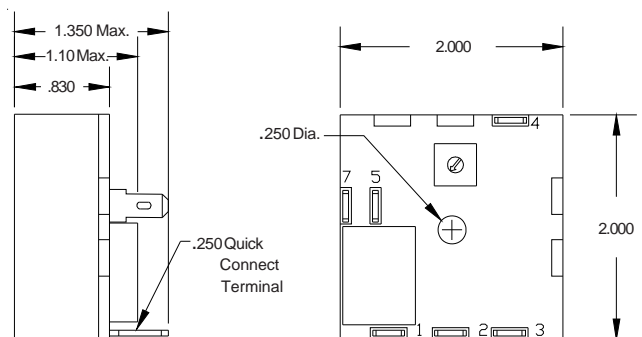
UL
UL/cUL Recognized

File E125360
UL Guide NMFT2
cUL Guide NMFT8

MODE OF OPERATION - SERIES ALTERNATING RELAY - TAR

Upon application of power to the input terminals, nothing happens. When the control switch is closed, nothing happens. When the control switch is opened, the output contact transfers causing load "A" to de-energize and load "B" to energize. When the control switch is re-closed, nothing happens. When the control switch is again opened, the output contact reverts back to its original position, causing load "B" to de-energize and load "A" to re-energize. The system will continue to alternate in this sequence as long as power is applied. If the optional selection switch is switched to either load 'A', or load 'B', lock position, the corresponding load will be electrically locked 'ON' and the alternating will cease while in this configuration. Reset is accomplished by removal of input power.

DIMENSIONS



CONNECTION DIAGRAM

