

TIME DELAYS

TD SERIES

For protection of HVAC/R equipment, the TD Series of Time Delays provide the solution. Choose the Delay on Make, or Delay on Break Timer that solves the problem.



APPLICATIONS

- Protection from short cycling of compressor
- Ideal for compressor staging

BENEFITS

- Fixed or adjustable Delay Ranges
- Broad input voltage range (Pilot Circuit)
- 1.0 Amp rating
- Varying models work with or without anticipator circuit.
- Terminal or wire connections available
- Compact size

TD60 Series - Delay on Make Timers

APPLICATION

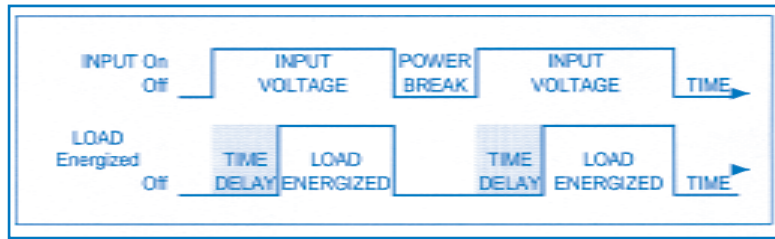
"ON" Delay On Make

- Multi Purpose "delay on Make" timing.
- Protects Air-conditioning, Refrigeration and Heat pumps from damage which may be caused by short cycling of compressor.
- For compressor staging and stagger starting multiple units.
- Helps to reduce power surges in multiple compressor applications.

MODE OF OPERATION

Upon application of power, the time delay initiates. On completion of selected delay period, the load is energized. Timer will reset on power interruption or when thermostat disconnects.

TIMING DIAGRAM



SPECIFICATIONS

| | |
|--------------------------|--|
| Delay Range (Adjustable) | 6 sec. to 8 min. |
| Delay Range (Fixed) | 3 or 5 minutes |
| Initiate Timer | 70 milliseconds |
| Input Voltage* | 19 to 250 VAC/VDC, 50/60Hz |
| Maximum Load | 1 amp. 10 amp. inrush |
| Operating Temperature | 0°F to +160°F (-18°C to +71°C) |
| Dimensions | 2" x 2" x 0.75", (5.08 x 5.08 x 1.9 cm) |
| Mounting | Nonpositional: single hole mounting |
| Connections | 1/4" quick male terminals or 6" long leads |

All Parameters are subject to change as per special requirements.
 * In TD69 Series, For 110/240 Volt application cut jumper.

SELECTION GUIDE

| PART NO. | DELAY PERIOD | CONNECTIONS |
|----------|-----------------------|-------------------------|
| TD68** | Adj. 6 Sec. to 8 Min. | (2) 1/4" Male Terminals |
| TD69 | Adj. 6 Sec. to 8 Min. | - " - |

** This timer is not for use with Cooling anticipator.



TD70 Series - Delay on Break Timers

MODE OF OPERATION

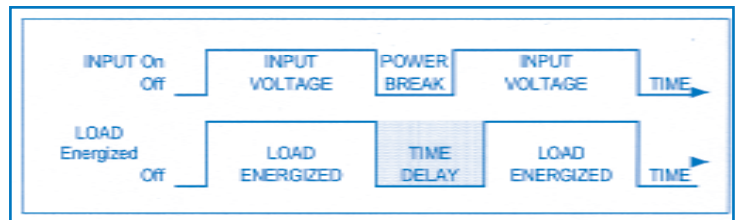
Upon application of power, Load is energized immediately. When Thermostat opens or on Power interruption, Load is de-energized and time delay initiates. Load will be energized again after delay time has elapsed.

APPLICATION

"OFF" Delay On Break

Protects Air-conditioning, Refrigeration and Heat pumps from damage which may be caused by short cycling of compressor.

TIMING DIAGRAM



SPECIFICATIONS

| | |
|--------------------------|---|
| Delay Range (Adjustable) | 6 sec. to 5 min. |
| Delay Range (Fixed) | 3 or 5 minutes. |
| Initiate Timer | 70 milliseconds. |
| Input Voltage* | 19 to 250 VAC, 50/60Hz |
| Maximum Load | 1 amp., 10 amp. Inrush. |
| Operating Temperature | 0°F to +160°F (-18°C to +71°C) |
| Dimensions | 2" x 2" x 0.75", (5.08 x 5.08 x 1.9 cm) |
| Mounting | Nonpositional: single hole mounting |
| Connections | 1/4" quick male terminals or 6" long leads. |

All Parameters are subject to change as per special requirements.
 * In TD73 Series, For 110/240 Volt application cut jumper.

SELECTION GUIDE

| PART NO. | DELAY PERIOD | CONNECTIONS |
|----------|-----------------------|-------------------------|
| TD72** | Adj. 6 Sec. to 5 Min. | (2) 1/4" Male Terminals |
| TD73 | Adj. 6 Sec. to 5 Min. | - " - |

** This timer is not for use with Cooling anticipator.



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