



## TIME DELAYS

# TD Series

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

### APPLICATIONS

- Protection from short cycling of compressor
- Ideal for compressor staging
- By-pass a control or device during start-up

### BENEFITS

- Fixed or adjustable Delay Ranges
- Broad input voltage range
- 1.0 Amp rating
- Varying models work with or without anticipator circuit.
- Terminal or wire connections available
- Compact size Electronic Potential Relay Technology

# TD60 Series

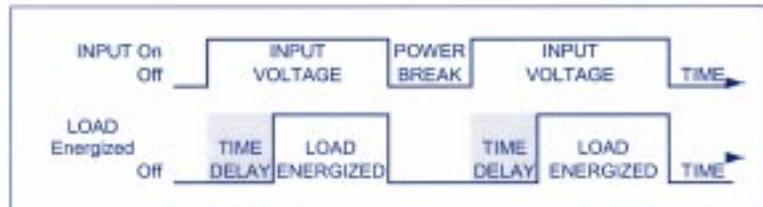
## Delay on Make Timers

### 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.

### TIMING DIAGRAM



### 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.



### SPECIFICATIONS

Delay Range (Adjustable)	6 sec. to 8 min.
Delay Range (Fixed)	3 or 5 minutes
Initiate Timer	70milliseconds
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 TD69 Series, For 110/240 Volt application cut jumper.

### SELECTION GUIDE

PART NO.	DELAY PERIOD	CONNECTIONS
<b>TD68**</b>	Adj. 6 Sec. to 8 Min.	(2) 1/4" Male Terminals
<b>TD69</b>	Adj. 6 Sec. to 8 Min.	- " -
<b>TD693</b>	Fixed 3 Min.	- " -
<b>TD695</b>	Fixed 5 Min.	- " -
<b>TD69W</b>	Adj. 6 Sec. to 8 Min.	(2) 6" LG. Wire Leads
<b>TD693W</b>	Fixed 3 Min.	- " -
<b>TD695W</b>	Fixed 5 Min.	- " -

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

# TD70 Series

## Delay on Break Timers

### MODE OF OPERATION

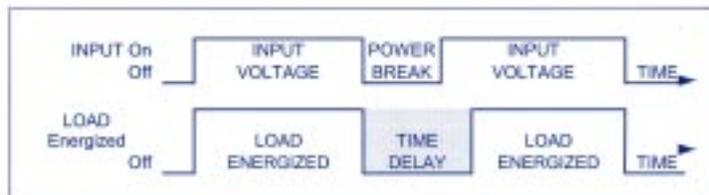
Upon application of power, Load is energized immediately. When Thermostat opens or on Power interruption, Load is de-energized and time delay initiates. Load will be energized again after delay time has elapsed.

### 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
<b>TD72**</b>	Adj. 6 Sec. to 5 Min.	(2) 1/4" Male Terminals
<b>TD73</b>	Adj. 6 Sec. to 5 Min.	- " -
<b>TD733</b>	Fixed 3 Min.	- " -
<b>TD735</b>	Fixed 5 Min.	- " -
<b>TD73W</b>	Adj. 6 Sec. to 5 Min.	(2) 6" LG. Wire Leads
<b>TD733W</b>	Fixed 3 Min.	- " -
<b>TD735W</b>	Fixed 5 Min.	- " -
<b>TD74***</b>	Adj. 6 Sec. to 5 Min.	(4) 1/4" Male Terminals

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

\*\*\* 4 Terminals Timer – see information below.

# TD74



### SPECIFICATIONS

Delay Range (Adjustable)	6 sec. to 5 min.
Initiate Timer	70 milliseconds.
Input Voltage	19 to 30 VAC. 50/60Hz
Input Voltage (H Series)	110 to 250 VAC. 50/60Hz
Maximum Load	1 amp., 10 amp. Inrush.
Minimum Load	40 milliamps.
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.

All Parameters are subject to change as per special requirements.

### SELECTION GUIDE

PART NO.	INPUT	VOLTAGE
<b>TD74</b>	Adj. 6 Sec. to 5 Min.	19 to 30 Vac 50/60Hz
<b>TD74H*</b>	Adj. 6 Sec. to 5 Min.	110 to 250 Vac 50/60Hz

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