



Designed to meet a wide variety of customer requirements. These electro-mechanical controls are used on many different types of commercial refrigeration equipment, including walk in boxes, reach in boxes, refrigerated cases and condensing units.

Defrost timers					
URI Catalog Number	IRP Product Code Number	Volts 60 Hz.	Switch type	Paragon part number	Precision
BTT4100	460-0003	120	2-NC/1-NO	804100	604100
BTT4120	460-0004	208-240	2-NC/1-NO	804120	604120
BTT4500	460-0005	120	SPDT	804500	604500
BTT4520	460-0006	208-240	SPDT	804520	604520
BTP4100	460-0007	120	2-NC/1-NO	814100	614100
BTP4120	460-0008	208-240	2-NC/1-NO	814120	614120
BTP4500	460-0009	120	SPDT	814500	614500
BTP4520	460-0010	208-240	SPDT	814520	614520

### Features & Benefits

- Heavy-duty synchronous motor.
- Adjustable Defrost Initiation Frequency: One to six times per day.
- Adjustable Defrost Cycle Duration: 4 to 110 minutes in two-minute increments.
- Contact Arrangements: Electric heat, hot gas, or off cycle defrost available.
- Heavy-duty steel case with electrical knockouts in the sides, back and bottom.
- UL recognized.

### Specifications

- Operating Voltages: 120 or 208/240 VAC, 60 Hz
- Amperage: 40-amp non-inductive @ 120, 208 or 240 VAC
- Maximum HP: 2 HP @ 120, 208 or 240 VAC
- Pilot Duty: 690 VA @ 120, 208 or 240 VAC
- Overall Case Dimensions: 7.697" H x 4.4" W x 3.8" D
- Shipping Weight: S8040 series 3.5 lbs & S8141 series 3.75 lbs.

### Applications

As a defrost control based upon the following functions.

- Time initiation and time termination.
- Time initiation and temperature termination.
- Time initiation and pressure termination.



Delay Timer					
URI Catalog Number	IRP Product Code Number	Type Delay	Input	DelayTime (min.)	Replaces
TDOM	460-0001	On Make	120/240 VAC	.03 to 10	ICM102B, EAC700, EAC701, TD69, 3310-06, 3239, 32367, IC-310 IC-213, AC-800
TDOB	460-0002	On Break	120/240 VAC	.03 to 10	ICM203B, EAC50, TD73, 3310-072, 32392, AC-503

### Mode of Operation

- With the power applied to the input the load is energized immediately and remains energized for the length of the time delay regardless of the state of the switch being bypassed. This timer is essential for bypassing low-pressure controls and switches during cold start up conditions.
- Upon application of power the load is energized immediately. When the thermostat opens or on power interruption the load is de-energized and the time delay initiates. The load will be energized again after the delay time has elapsed.
- Protection from short cycling of compressor
- Ideal for compressor staging

### TD Series Time Delays

#### Standard Features / Specifications

- Two styles available: Delay on Make & Delay on Break
- Fixed or adjustable delay ranges
- Universal Voltage
- Broad input voltage range (Pilot Circuit)
- Maximum load 1.0 amp, 10 amp inrush
- 10 min. Adjustable
- Terminal or wire connections available
- Operating Temperature Range 0°F to +160° F (-18°C to +71°C)
- Compact Size 2" x 2" x .075" (5.08 x 5.08 x 1.9 cm)
- Non positional single hole mounting
- All parameters are subject to change as per special requirements
- Works with anticipator thermostats
- Helps to reduce power surges in multiple compressor applications

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