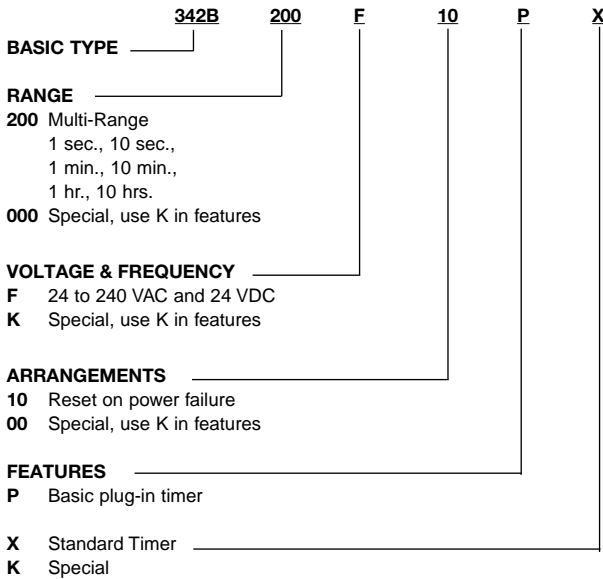




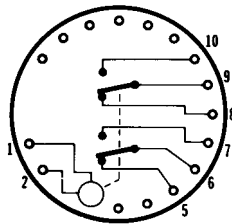
## OPERATION

The 342 is a repeat-cycle timer that operates continuously through its two timing ranges (T1 and T2), one after the other, transferring the relay contacts as it times out of each range. There is no start circuit and the timer resets on power interruption. The first timing range (T1) begins and the relay is energized when line voltage is applied to the *Run* terminals of the 342. The relay is de-energized when T1 times out and it remains de-energized until T2 times out ... at which time the relay is energized and the flip-flop cycle is repeated. The pattern of relay operation can be reversed — de-energized during T1 and energized during T2 — by changing a push-on connector from one pin to another on the circuit board; no wiring change is required.

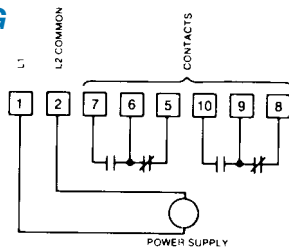
## ORDERING CODE



## TERMINAL WIRING



## WIRING



Before starting your design, read the safety statement on the inside back cover of the ATC catalog.

## SPECIFICATIONS

<b>Timing Mode</b>	Repeat cycle: resets on power interruption. DPDT relay can be energized either during the first timing cycle (T1) or during the second (T2) simply by moving the PCB jumper.
<b>Range</b>	Six independent continuously adjustable switch-selected ranges for each timer: 1 sec.                    10 min. 10 sec.                1 hr. 1 min.                    10 hr.
<b>Contact Rating</b>	Load Relay Type: DPDT Rated 10 Amps resistive at 30 VDC or 250 VAC (or less); 1/8 HP @ 120 VAC; 1/4 HP @ 240 VAC; 240 VA @ 240 VAC <b>Life:</b> 10 million operations with no load 100,000 operations with: 10 Amps at 30 VDC (or less) or 10 Amps at 250 VAC (or less) <b>Contact Material:</b> Silver Cadmium Oxide
<b>Temperature Rating</b>	-18°C to 60°C (0° to 140°F)
<b>Noise Immunity</b>	Showering arc per NEMA ICS 2-230, in addition the 342B will withstand a voltage surge of 4500 volts for 50 usec. without damage.
<b>Mounting</b>	<b>Standard:</b> Hardware is provided to mount timer from front panel through cutout. <b>Optional:</b> Bracket and hardware for surface mounting. NEMA 12 molded case; DIN size (96mm x 96mm)
<b>Housing</b>	Plug-in design; dust, moisture and impact resistant molded plastic case case; DIN size (96mm x 96mm)
<b>Power Requirements</b>	Universal power supply- DC polarity insensitive. Unit will accept power from: 24 to 240 VAC, 50 or 60 Hz, (+10%, -20%) 24 VDC, (+20%, -20%) AC: Inrush - 1.5 Amps Power required - 2 Watts DC: Peak Inrush current = 1.5 Amps @ 24 VDC Maximum ripple @ 100 Hz - 5% Current required - 50 ma Power required - 1.2 Watts
<b>Repeat Accuracy</b>	Any voltage (constant temperature); ±1%* Any voltage (32°F to 140°F); ±3%* Any voltage (0° to 140°F); ±4% *Variation from average actual time.
<b>Minimum Setting</b>	2% of range, with the exception of 50 msec on the 1 second range
<b>Setting Accuracy</b>	± 10% of range
<b>Reset</b>	a: 0 to 20 msec power interruption; guaranteed no reset b: 20 to 65 msec; it may reset (40 msec typical reset) c: Over 65 msec guaranteed to reset. The TDR will reset properly and not start timing when subjected to an open power switch leakage of 1.5 mA or less. (Prox. switch and Triac drive Applications).
<b>Pilot Lights</b>	LED cycle progress annunciator for each timer
<b>Weight</b>	1 lb. (454g)