

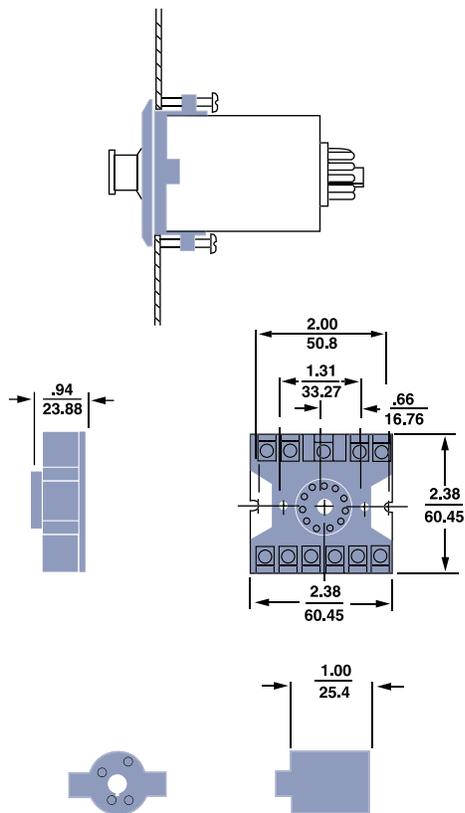
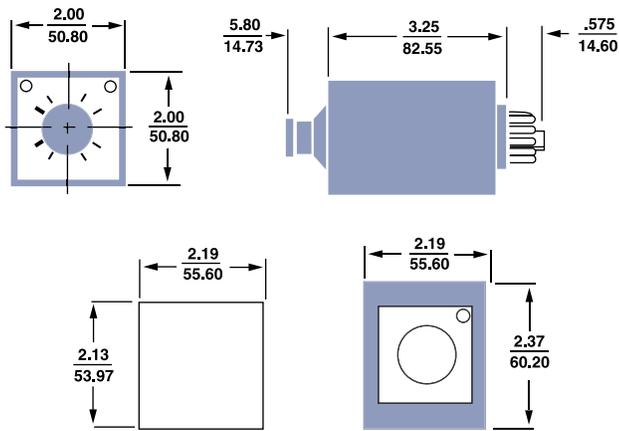
DIMENSIONS:
INCHES
MILLIMETERS



Series 314

Plug-In Multi-Range Off-Delay/Interval TDR

TIMERS



11 PIN MOUNT SOCKET

OPERATION

OFF-DELAY MODEL

Presuming the AC line is energizing the unit continuously, when the start switch is closed the relay energizes, the pilot light goes on and the unit resets. Opening the start switch begins the timing cycle. A relaxation oscillator runs at a rate determined by the set pot. When the oscillator count is equal to the level set by the range switch, a digital count circuit is satisfied and the unit times out.

At time out, the timing circuit and relay are de-energized and the pilot light goes **off**. Closing the start switch resets the unit. After a power failure (or on first startup) the unit will go to the timed out condition (relay de-energized) until the unit is reset by closing the start switch to begin a new cycle.

INTERVAL-ON-DELAY MODEL

Timing begins when the *start* switch is closed; simultaneously the relay is energized and the pilot light goes **on**. Either a momentary/sustained start or a sustained start input can be used (see wiring). Reset is accomplished by de-energizing the unit. At time-out, the timing circuit and relay are de-energized and the pilot light goes **off**.

The ATC 314 is an economical multi-range solid-state TDR with two models; one for off-delay (delay-on-break) and one for interval-on-delay operation. With three dial-selected adjustable ranges, it provides any timing period between 0.035 and 100 SEC with excellent repeat accuracy even with wide changes in voltage, temperature and reset time.

SPECIFICATIONS

MODELS

Choice of two:
Off-delay mode
 Interval mode

RANGES AND MINIMUM SETTING

Three dial-selected adjustable ranges:
 0.035 - 1.0 sec
 0.18 - 10 sec
 1.8 - 100 sec

REPEAT ACCURACY

Varies as a function of line voltage and temperature but not of reset time (see Recycle Characteristics):
 ± 1% of setting or 2.0 ms, when temperature is constant and line voltage is constant or varies within limits*
 ± 4% of setting or 2.0 ms, when line voltage is constant and temperature varies within limits*
 ± 6% of setting or 2.0 ms, when line voltage and temperature vary within limits*

*Variations of line voltage must be within 95 and 132V; of temperature between 0° and 70°C (32° and 158°F); and reset/start time must be at least 75 msec.

RESET

OFF DELAY: 75 msec during timing or after time-out.

START

INTERVAL-ON-DELAY: 45 msec (for momentary start wiring)

POWER INTERRUPTION EFFECT

OFF DELAY: A power failure over 5 msec during timing will cause relay drop-out. If power is restored in up to 75 msec, the unit will re-energize its relay and continue timing. If the power loss is over 75 msec the unit will lock in to the timed-out (relay de-energized) position until reset.

INTERVAL-ON-DELAY: A power failure over 5 msec causes relay drop-out. Restoring power in up to 75 msec will re-energize the relay and timing will continue. A power loss over 75 msec will always reset the timer fully.

LOAD RELAY:

TYPE: DPDT, hard wired
 LIFE: 50,000,000 operation (no load)
 CONTACT RATING: 7A resistive at 120 or 240V 1/10 HP at 120V

POWER REQUIREMENTS

120 VAC: 95 to 132V, 50/60 Hz, 0.02A
240 VAC: 190 to 264, 50/60 Hz, 0.02A

SETTING ACCURACY

10% at full scale.

TEMPERATURE RATING

0 to 70° C (32 to 158° F)

MOUNTING

PLUG-IN 11-PIN BASE; mounts in any position
 OPTIONAL: surface-mounting socket panel-mounting bezel kit plug-on socket kit

HOUSING

Dust, moisture and impact-resistant molded plastic case

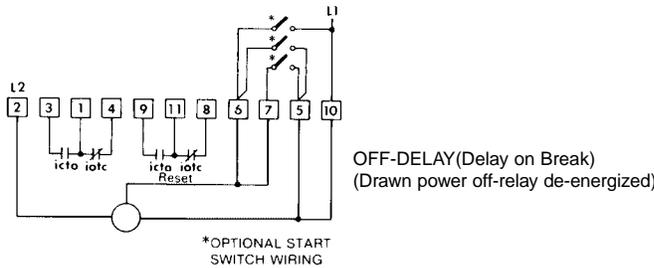
WEIGHT

NET: 6 oz.
 SHIPPING: 10 oz.

APPROVALS

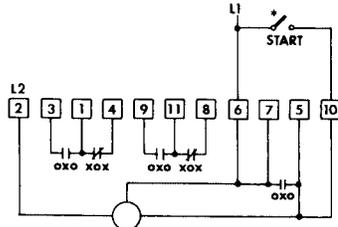
See Agency Listing on inside back cover of catalog.

WIRING



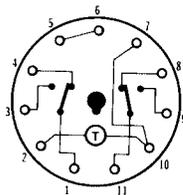
OFF-DELAY(Delay on Break)
 (Drawn power off-relay de-energized)

INTERVAL-ON-DELAY
 Momentary or Sustained Start
 Sustained Start*

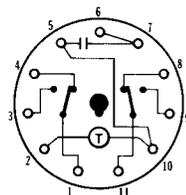


*Replace start switch with jumper for sustained start only

TERMINAL WIRING

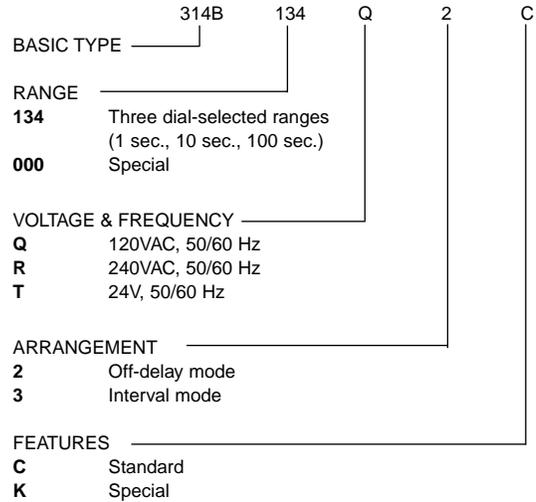


OFF DELAY



INTERVAL-ON-DELAY

ORDERING CODE



ACCESSORIES

- 0000-825-63-00 Surface mounting socket
- 0319-025-06-00 Retaining clip for use with socket
- 0319-261-44-00 Panel mount bezel kit
- 0314-260-07-00 Panel mount socket kit

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