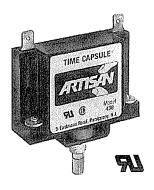


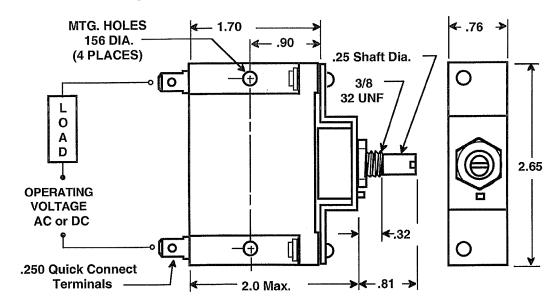
Solid State Timers and Controllers

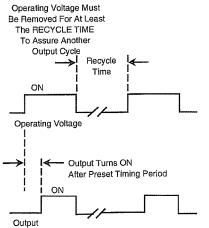


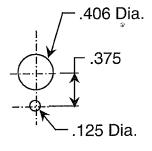
438AP Adjustable Panel Mount Delay-On-Make Time Capsule **

The model 438AP (Adjustable Panel -Time Capsule) is an all Solid State timer providing "Delay on Make" control to any load operating from specified operating voltages. The timer is wired in series with the load without concern for polarity. When power is applied, the 438AP remains in the "off" state. After the preset period has elapsed the timer switches "on" energizing the load. The timing period is controlled by a potentiometer wired internally, providing a method by which to panel mount the timer.

Mechanical & Wiring







Potentiometer rotation is 280°





Solid State Timers and Controllers

Operating Voltage: 12V AC/DC, 24V AC/DC, 48V AC/DC, 115V AC/DC, 230V AC/DC.

Voltage Tolerance: ±15% at specified operating voltage.

Timing Mode: Delay-On-Make, external load energizes after preset timing period. Fixed Timing: Factory fixed at any timing period from 0.1 seconds to 10,000 seconds.

Tolerances On Fixed Timing: 10%.

Adjustable Timing Ranges: Ten (10) ranges of potentiometer adjustable delay-on-make timing

from 0.1 seconds to 900 seconds.

Adjustable Timing Setting Accuracy: Minimum time - 15%, +0%. Maximum time - 0%, +15%.

Potentiometer Rotation: 280°.

Timing Variation: Less than 5% of set point over full temperature and voltage range.

Repeatability Of Timing Period: ±1% at stabilized operating voltage temperature.

Recycle Time: Operating voltage must be removed for a minimum of 50mS after timing period, 200 milliseconds during timing period to assure new

cycle repeats to full time delay period.

Output Rating: 10mA to 1A inductive with inrush current to 25A for 8 milliseconds.

Output Switch Characteristics: 4 volt drop across output switch when ON, 3mA leakage when OFF.

Transient Protection: Protected by silicon transient suppressors responding to transients within 1 x 10⁻¹² seconds to a peak pulse power dissipation of 1500 watts, with transient surge currents to 200 amperes for durations up to 1/120 second at 25° C. Maximum transient voltage protection is

6000 volts as delivered through a source resistance of 30 ohms with

a maximum duration of 8.3ms. Dielectric: 1500V rms all terminals to case.

Operating Temperature: -20°C to +85°C

Construction: Encapsulated module with .25 quick connect wiring terminals.

Agency Recognitions: UL File #E47858 (Component Appliance Controls #ATNZ2),

UL File #E47858 (Component Auxiliary Devices #NKCR2),

Data Sheet Revision Date: June 7, 1995

Part Number 💻	Operating Voltage -	Timing Range In Seconds
438AP -	- 12	-1 (0.1 - 4.0)
	- 24	-2 (1 - 30) -3 (2 - 100)
	- 48	-4 (10 - 500) -5 (30 - 900)
	- 115	-6 (0.1 - 0.4)
	- 230	-7 (1 - 3) -8 (2 - 10)
	Operates On Either AC Or DC	-9 (10 - 50) -10 (30 - 90)



Example: 438AP - 24 - 2 438AP, operating from 24V AC, with adjustable timing from 1 to 30 seconds.