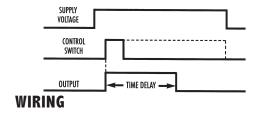




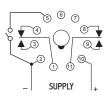


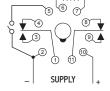
Voltage is continuously applied to the input. An external isolated switch controls the timer. When closed (momentary or maintained), the relay energizes and the delay period begins. Upon completion of the delay

period, the relay de-energizes.

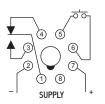


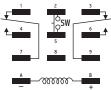






OPERATION





DPDT 11 Pin Plug-in RB-11/PF113A

DPDT 11 Pin Plug-in External Resistor Adjustable

SPDT Octal Plug-in RB-08/PF083A

DPDT Blade Plug-in 70-463-1

SPECIFICATIONS

TIMING RANGES

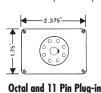
Virtually unlimited. See page 77 for standard ranges available.

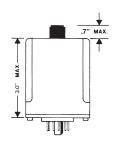
rang	es avallable.					
OUTPUT RATING	DPDT, 10 A @ 250 VAC or 24 VDC, resistive; 211 VA @ 120 VAC, inductive					
TIMING TOLERANCES						
REPEATABILIT	Y 1% maximur	n; no first cycle effect				
RESET TIMES	Before Time Ou					
RECYCLE TIME	40 mSEC					
SUPPLY VOLTAGE		24 or 120 VAC or VDC, 50/60 Hz; ±10% (TUE Series available in 120 Volts only)				
FALSE TRANSF	FER No					
REVERSE POLARITY PROTECTED	Yes					
POWER CONSUMPTION	,	approximately)				
DUTY CYCLE	Continuo	JS				
TEMPERATURE RATING	Operate Storage	32° to 131°F (0° to +55°C) -49° to 185°F (-45° to +85°C)				
LIFE EXPECTA		(minimum)				
	Electrical	100,000 operations @ rated load				

For UL/CSA Approved version specify TUE Series of On-Delay Relay Output Timers.

4.5 oz.







MODEL NUMBER

MODEL NUMBER	T		Е		Α			
SERIES								
Relay Output		D						
Relay Output with CSA		U*						
SUPPLY VOLTAGE								
24 VAC or DC				24				
110/120 VAC or DC				120				
TYPE OF OPERATION								
Knob Adjustable						K		
Lock Nut Adjustable						L		
Fixed						F		
External Resistor Adjust	able					R**		
ENCLOSURE STYLE								
8-pin or 11-pin Round F	Plug-i	n						Α
Blade Plug-in							В	
DELAY PERIOD								
See page 77 for standar	rd rar	nges	availa	able				

Example: TUE-120-AKA-900—Single Shot, 120 Volts AC or DC, knob adjustable from 9 to 900 seconds, 8-pin octal plug-in. UL recognized and CSA approved.

Notes:* The TUE series is offered in 120 Volts, octal plug-in (figure 23) style A enclosure only with optional types of operation "K", "L",or "F" CSA certified: File #LR40123

**TDE's using the "R" option are not UL Recognized. The "R" option is NOT offered in the TUE series or the style B enclosure.

WEIGHT

STANDARD DELAY RANGES AVAILABLE

The chart below shows the standard adjustable time delay ranges available. The part number suffix equals the maximum adjustable delay period of the timer. No letters following the suffix number indicates the delay period in seconds; an M indicates minutes; and an H indicates hours.

STANDARD DELAY RANGE CHART

JIANDAND L	LLAI MANUL	CHANI				
PART NUMBER SUFFIX	MINIMUM SETTING	MAXIMUM SETTING				
010	0.1 seconds	10 seconds				
030	0.3 seconds	30 seconds				
060	0.6 seconds	60 seconds				
100	1 second	100 seconds				
200	2 seconds	200 seconds				
300	3 seconds	300 seconds				
600	6 seconds	600 seconds				
900	9 seconds	900 seconds				
30M	18 seconds	30 minutes				
60M	36 seconds	60 minutes				
90M	54 seconds	90 minutes				
2H	1.2 Minutes	2 hours				
4H	2.4 Minutes	4 hours				
8H	4.8 Minutes	8 hours				
12H	7.2 Minutes	12 hours				
16H	9.6 Minutes	16 hours				
20H	12 Minutes	20 hours				
24H	14.4 Minutes	24 hours				

Longer delays available upon request. Consult Factory

EXTERNAL RESISTANCE SELECTION

On models specified as having the external resistor adjustability feature, the delay period is set by placing resistance across designated pins or terminals. One meg ohm resistance provides the maximum delay on all models. The minimum delay is obtained by jumping the terminals together.

The resistor or potentiometer chosen should be a 1/4 watt or larger.

To determine the resistor value required for a specific time delay, use the following formula:

$$R_{ext} = (T_{des}/T_{max})x 1000$$

R_{ext} = Resistance value required to obtain T_{des} (in K ohms)

 T_{des} = Desired time delay

 $T_{max} = Maximum delay period of the timer$

Example: Model TDC-120-ARC-300; find the external resistance value required for a 240 second delay:

$$R_{ext} = \frac{240}{300} \text{ x } 1000 = 800 \text{ K ohms}$$

"FIXED" DELAY OPTION

Most ATC Diversified timers are available with the delay period factory preset ("fixed") for some specified duration. When this option is ordered, the part number should have an "F" in the Type of Operation designation: and the last digits should specify the desired time delay in seconds (S), minutes (M), or hours (H).

Example: TDC 120-AFA-30M—delay-on-operate, 120 Volts AC or DC, 8-pin octal plug-in package with a 30 minute fixed delay.

■ OFF/ON DELAY TIMERS

Included in ATC Diversified's broad line of timers are six (6) models that feature independent OFF/ON delay adjustments. They are TDF, TDH, TDI, TSF, and TSH. Notice in the ordering information section on each of their respective pages the timing range is specified by a three (3) digit suffix. This indicates that both the OFF and ON delay periods have the same timing ranges. Example: TDF-120-ALA-300: Both OFF and ON delay periods are independently adjustable from 3 to 300 seconds.

In the event that two (2) separate delay ranges would be required, the part number is modified to add a slash(/) followed by three (3) more digits. Since the OFF delay (TI) is first in all models, it is specified first in the part number. Example: TDF-120-ALA-12H/30M: the OFF delay is adjustable from 7.2 minutes to 12 hours and the ON delay is adjustable from 18 seconds to 30 minutes.

NOTE: Combinations of various "types of operation" are available: fixed/adjustable, knob/lock nut, etc. Consult factory.

■ MODEL NUMBER

MODEL NUMBER	LT L						
TIME DELAY							
SERIES							
Relay Output	D,	U					
Solid State Output	5	;					
MODE OF OPERATION							
SUPPLY VOLTAGE							
24 Volts			24				
120 Volts			120				
240 Volts			240				
TYPE OF VOLTAGE							
AC				Α			
DC				D			
TYPE OF OPERATION							
Knob Adjustment					K		
Lock Nut Adjustment					L		
Fixed (Factory Preset)					F		
External Resistor Adjus	table				R		
ENCLOSURE STYLE							
8 or 11-pin Round Plug-in							Α
Blade Plug-in						В	
Potted Cube						С	
DELAY PERIOD							
See Standard Delay Rai	nge Ch	art					

NOTE: Not all time delays are available with each option shown above. The specific options for each timer type are described on their respective pages.