



UL917  
 UL  
 E10694  
 C22.2-177  
 CSA  
 LR3730

Request Energy Controls Specifier Guide for more information.

## 7-Day Dial with & w/o Carryover

These time switches provide a different "ON/OFF" program each day of the week. They also provide for 4 pole single throw and 4 pole (2NO/2NC) switching. This series provides true 7-day load control with minimum ON and minimum OFF times of 3-1/2 hours. The "BC" models with carryover provide a carryover of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carryover automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage.

### Applications

- Heating
- Indoor Lighting
- Signs
- Fans
- Air Conditioning
- Outdoor Lighting
- Billboards
- Filters
- Pumps
- Motors
- Ventilating Systems
- 3 Phase Loads

### Specifications

**Case** - Steel in gray finish 12-1/2" (31.7 cm) high, 8-1/4" (21.0 cm) wide, 4" (10.2 cm) deep. Indoor type with toggle action drawbolt and locking feature. Four mounting holes on back. Separate grounding terminal.

**Knockouts** - Combination 1/2"-3/4" nominal knockouts, two on back one on each side and two on bottom. Also one 1" nominal on bottom center.

**Optional Enclosures** - See page 41 for optional enclosures. Refer to price list (TS190) or contact factory for availability of time switch in other enclosures.

**Special Voltages and Cycles** - See page 48 for available motors. Contact factory for availability of time switch with 50 cycle or other voltages.

**Switch Rating** - Each Pole 40 amp resistive, 120-480 volts A.C. 40 amp tungsten, inductive or 1000 VA pilot duty, 120-277 volts A.C. 2 H.P. (24 FLA) 120 volts A.C. 5 H.P. (28 FLA) 240 volts A.C. single phase 7-1/2 H.P. (28 FLA) 208 volts A.C. three phase 10 H.P. (28 FLA) 240 volts A.C. three phase

**Carryover** - Minimum time - mechanical operation; 16 hours. Carryover accuracy +/-2%.

**Operating Ambient Temperature Range** - -40 degrees F (-40 degrees C) to 130 degrees F (54 degrees C)

**Storage Temperature Range** - -45 degrees F (-43 degrees C) to 165 degrees F (74 degrees C)

**Power Input** - 5 Watts maximum.

**Shipping Weight** - Models without carryover 8 lbs. (3.6 kg.); models with carryover 9 lbs. (4.1 kg.)

Model Number	Model with CarryOver	Switch	Clock Motor Volts 60 Hz.	AMPS. (per pole)
T7401B	T7401BC	4PST	125	40
T7402B	T7402BC	4PST	208-277	40
T7801B	T7801BC	2NO/2NC	125	40
T7802B	—	2NO/2NC	208-277	40
T7805B	—	2NO/2NC	480	40

\* All models have separate clock motor terminals for switching circuits not on line voltage.

For additional trippers (7 ON / 7 OFF per pack), order No. 156T2548A

## Astro Dial w/Skipper and Carryover



Request Energy Controls Specifier Guide for more information.

UL885L  
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 E10694  
 C22.2-177  
 CSA  
 LR3730

This time switch is self adjusts for seasonal changes. The astronomic dial; automatically adjusts itself as the days grow shorter or longer. A skipper provides lighting control to be omitted on selected day(s) of the week. The carryover is designed to maintain preset schedule during power outages for a minimum of 16 hours. Only 1 hour is required to rewind the carryover for each 2 hours of outage. The 3PST switch configuration provides for control of 3-phase lighting. Three skipper screws are furnished.

### Lighting Applications

- Parking Lots
- Billboards
- Storefronts
- Landscape Lights
- Entryways
- Car Lots
- Stairways
- Security

### Specifications

**Case** - NEMA 3R drawn steel 11-1/2" (29.2 cm) high, 8-1/4" (20.9 cm) wide, 4-1/2" (11.4 cm) deep in gray finish. Hasp, with hole for lock, holds permanently attached, side hinged door closed. Mounting bracket plus two holes below switch on back for mounting. Separate grounding terminal.

**Knockouts** - Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

**Optional Enclosures** - None; NEMA 3R only.

**Switch Rating** - Each pole: 40 amp tungsten up to 277 volts A.C.; 1 H.P., 120 volts A.C.; 690 VA pilot duty.

**Shipping Weight** - Models V45471CR & V45472CR 9 lbs. (4.1 kg.) Other models 5 lbs. (2.3 kg.)

Model Number	Switch	Clock Motor Volts 60 Hz.	AMPS.
V45471CR*	3PST	125	40
V45472CR*	3PST	208-277	40
V45471R	3PST	125	40
V45472R	3PST	208-277	40

# Indicate City and State nearest installation when ordering. \* Includes spring wound carryover. For additional skipper screws (3 skipper screws per pack), order No. 156T1957A See Electronic Time Switches with Astro Feature on pages 32 and 33.

## Short Range Cycle Timer

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 UL  
 E10694  
 C22.2-177  
 CSA  
 LR3730



Short Range Cycle Timers provide repeat cycling for "ON" times. Ten combination "ON/OFF" trippers supplied with each switch.

### Applications

- Ventilating Fans
- Poultry Fans
- Pumps
- Spraying Equipment
- Fogging Equipment
- Bulk Milk Coolers
- Livestock Feeders
- Poultry Feeders
- Process Equipment
- Motors

### Specifications

**Case** - Same as T100 Series.

**Knockouts** - Same as T100 Series.

**Optional Enclosures** - Same as T100 Series.

**Switch Rating** - 20 amp resistive 125, 208-277 volts A.C.; 1/2 H.P., 125 volts A.C.; 1 H.P., 250 volts A.C.

**Shipping Weight** - 2-3/4 lbs. (1.25 kg.)

Model Number	Switch	Clock Motor Volts 60 Hz.	Dial Cycle	Tripper Actuating Time	AMPS.
C8855	SPDT	125	5 Min.	2.5 Sec.	20
C8815	SPDT	125	10 Min.	5 Sec.	20
C8835	SPDT	125	30 Min.	15 Sec.	20
C8865	SPDT	125	1 Hr.	30 Sec.	20
C8825	SPDT	125	2 Hr.	60 Sec.	20
C8845	SPDT	125	4 Hr.	120 Sec.	20
C8866	SPDT	250	1 Hr.	30 Sec.	20

Note: The life of the switch contacts is affected by the size and type of the controlled load. The expected minimum life at 20 amps (resistive) load is 100,000 cycles.

Replacement Snap Switch 133T773A

For additional trippers (12 trippers per pack), order No. 156T1950A See Solid State Cycle percentage timer on page 42.