

# 1800 SERIES

FOR MECHANICALLY HELD CONTACTORS AND LOW VOLTAGE REMOTE CONTROL  
**MOMENTARY CONTACT TIME SWITCH**



<http://waterheatertimer.org/Tork-timers-and-manuals.html>

## APPLICATIONS



- Mechanically-held contactors
- 3-wire momentary lighting systems
- Remote station switching

CALIFORNIA Title 24

ASHRAE 90.1

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC or 208-277VAC, 60Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #12 - #22AWG.

**OPERATING TEMPERATURE:** -40° to 165°F (-40° to +74° C).

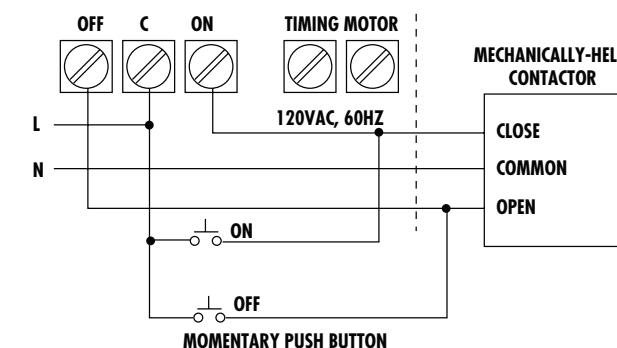
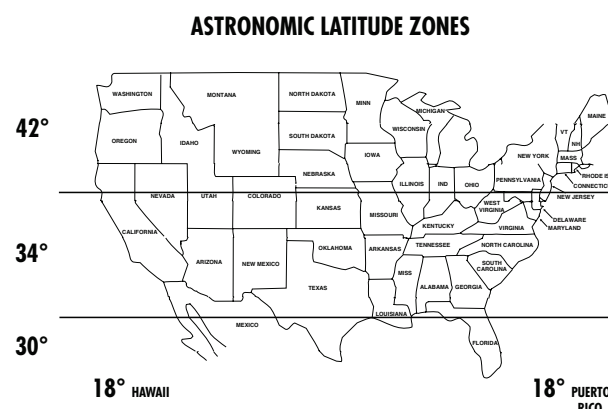
**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

**ENCLOSURE:** NEMA 1 Metal with lockable hasp (see page 153 for enclosure dimensions).

## CONTACT RATINGS

TYPE	VOLTAGE	CONTACT RATING
General Purpose	24-277VAC	10A
Pilot Duty	24-277VAC	360VA

## WIRING DIAGRAMS



## FEATURES

**SCHEDULING:** Choice of three types.

**24 HOUR SKIP-A-DAY:** Minimum ON setting is 20 minutes with minimum OFF setting at 75 minutes. Dial accommodates up to 12 pairs of trippers. Omit operations on any day with a 7 spoke wheel marked with days of week.

**ASTRONOMIC SCHEDULING:** Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times.

**7 DAY SCHEDULING:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial will accommodate up to 2 pairs on ON/OFF trippers per day - 7 pairs are supplied.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 16 hours during power outage.

## ORDERING INFO

CATALOG NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	TYPE
1847A	52001	120	SPDT	24 Hour
1848A	52014	208-277	SPDT	24 Hour
1847AZ*	**	120	SPDT	Astronomic
1847AW	52005	120	SPDT	7 Day
WITH RESERVE POWER				
1847AL	52006	120	SPDT	24 Hour
1847AZL*	**	120	SPDT	Astronomic
1847AWL	52010	120	SPDT	7 Day
Replacement Trippers	For 24 hour models order #P49 for a pair ON/OFF per dial. Additional ON/OFF trippers per dial order #P47. 3 omitting screws #53005 supplied. 7 day models order #P69 for 7 pairs of ON/OFF trippers.			
Replacement Motor	#101 (120V) & #201 (208-277V). For "L" models #36 (120V)			

\*Add degrees latitude to complete number (18, 30, 34, or 42).

\*\*Consult factory for UPC number.

## SPECIFICATION WRITER'S GUIDE

Furnish and install, where shown, a Momentary Contact time switch. Time switch shall have dial of the (24 hour with day omitting device) (Astronomic with day omitting device) (7 day calendar) type, which shall be suitable to operate mechanically-held contactor of maximum size. Terminal board shall enable fast and correct installation using screw terminals for up to #12AWG wire. Timing motor terminals shall be completely independent from momentary switching circuit. Spring driven reserve mechanism shall be provided sufficient to operate time switch controls at least 16 hours after power failure. On restoration of power, time switch shall transfer to synchronous motor drive and automatically rewind reserve. Time switch shall include solid state circuit to provide a switch closure not in excess of two seconds on both ON and OFF contactor coil terminals at such times as are set on dial: these settings to be made with removable trippers which can be added and removed without tools (except the astronomic dial). Contactor coil circuits shall be suitable for 10 Amp @ 24-277 VAC, 360 VA. Enclosures shall be NEMA 1 surface (or see other mountings), with provision for positive padlocking. Time switch shall be TORK Model 1847AL, 1848A, (AZL), (AWL).