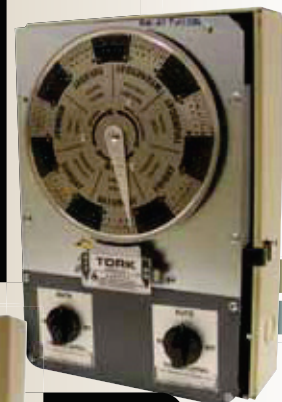


# TW SERIES

DIFFERENT SCHEDULES EACH DAY  
MANUAL BYPASS SWITCHES  
RESERVE POWER STANDARD  
7 DAY TIME SWITCH



CALIFORNIA Title 24  
ASHRAE 90.1



Optional "E" cover

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

## APPLICATIONS

- Heating
- Air conditioning
- Display lighting
- Ventilating systems
- Lighted signage
- Storefront lighting

## FEATURES

**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 accommodates up to 2 pairs of ON-OFF trippers per day – 7 pairs are supplied.

**SKIP-A-DAY:** Omit operations on any day.

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

**MANUAL BY-PASS SWITCHES:** Single pole, 20 Amps – one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent – will not disturb automatic settings.

**RESERVE POWER:** Standard feature on all models keep dial on time up to 24 hours during power outage.

**NOTE:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

## ORDERING INFO

CATALOG NO.	UPC CODE	INPUT SUPPLY (VAC) 60Hz	OUTPUT CONTACTS	ENCLOSURE TYPE
TW-220L	39013	120	DPDT	Metal Indoor NEMA 1
TW-220L-E	39021	120	DPDT	Metal Indoor NEMA 1 with switch access
TW-222L	39014	208-277	DPDT	Metal Indoor NEMA 1
TW-300L	39015	120	3PST	Metal Indoor NEMA 1
TW-302L	39016	208-277	3PST	Metal Indoor NEMA 1
Replacement Trippers	Order #P69 for 7 pairs of ON/OFF trippers.			
Replacement Motor	#36 (120V) & #46 (208-277V)			
Replacement Bypass Switch	#66061			

## SPECIFICATIONS

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

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

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

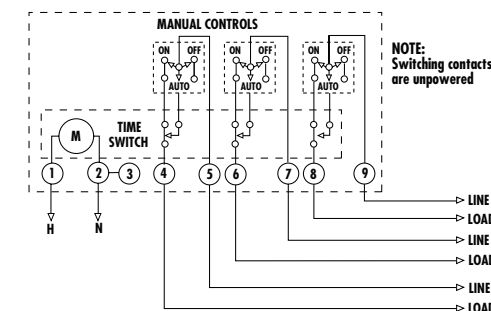
**POWER CONSUMPTION:** 5 watts maximum.

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

## CONTACT RATINGS

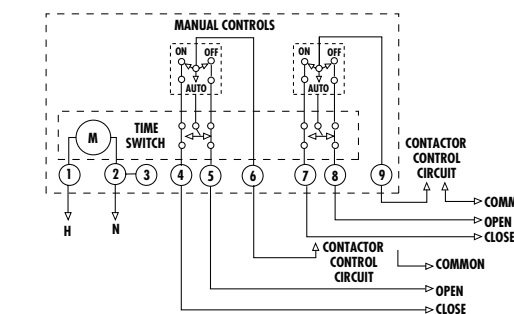
TYPE	VOLTAGE	CONTACT RATING
General Purpose	120/277VAC	20A
Motor	120VAC 240VAC	1HP 2HP

## WIRING DIAGRAMS



### TW300L

When single line source is used, jumper terminals 1-5-7-9 and connect all commons to terminals 2 and 3.



### TW220L

Wiring shown is for mechanically-held contactors. Use CLOSE terminal only for magnetically-held contactors and to control direct loads not exceeding 2000 watts.

## SPECIFICATION WRITER'S GUIDE

Furnish and install, where shown, a TORK time switch of the 7 day type, capable of being set for different ON/OFF times each day of the week, to an operating accuracy of plus or minus 15 minutes of the desired time. The time switch shall be powered by a self-starting synchronous motor with spring-driven reserve, which shall be sufficient to operate the time switch contacts at least 24 hours after power outage. On restoration of power, time switch shall transfer to synchronous motor drive and automatically rewind reserve power unit. Time switch shall provide for automatic operation with a minimum of one hour between an ON/OFF operation with minimum of four ON/OFF operations per day. ON/OFF operations shall be accomplished by removable ON/OFF trippers on the dial. Time switch contacts shall be capable of carrying a minimum 20 amperes per pole continuously at 277 volts and shall be DPDT or 3PST. Manual switches shall be provided as an integral part of the time switch, one for each pole, and shall permit manual switching to maintained ON or OFF positions until manually returned to AUTOMATIC position. Terminal strip shall be capable of receiving #10AWG wires. Enclosure shall be NEMA 1 surface type, finished in beige enamel, and with 1/2" - 3/4" combination knock-outs on bottom, both sides and top. Provision shall be made for positive padlocking. (Specify "E" door for manual switches to be accessible when case is locked). Shall be TORK Model TW (to fit switch requirement) or equal in general purpose NEMA 1, (general purpose metal) or (Indoor/Outdoor NEMA 3) enclosure.