

# 8000 SERIES

## DUTY CYCLE 24 HOUR TIME SWITCHES

### MANY ON/OFF OPERATIONS PER DAY

#### APPLICATIONS

For one to many daily ON-OFF operations

- Duty Cycling
- Pumping
- Ventilating Fans
- Irrigation
- Process Control
- Laboratory Experiments

#### SPECIFICATIONS

**CONTACT RATINGS:** 20 Amps at 120 or 240V, 5 Amps at 480V, ¼ HP @120V AC

**TIMING MOTOR:** Heavy duty synchronous, self-starting, high torque. Power Consumption: 3 watts.

**OPTIONAL RESERVE POWER:** Keeps dial on time up to 16 hours during power outage. Add suffix L to model number. Power Consumption: 5 watts.

**DIAL:** Captivated tabs for setting are easily tilted in or out by hand. Switch stays ON or OFF as set when adjacent tabs are set alike. 1 TO 48 ON-OFF OPERATIONS PER DAY. 96 tabs permit 15 minute switching changes. DUTY CYCLES adjustable from ½, 1, 2, 3, 4, 6, 12 and 24 hours.



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

**ENCLOSURE:** See page 27 for dimensions. General purpose (NEMA 1). Drawn steel, beige enamel, with combination ½" and ¾" K.O.'s on sides, bottom and back. Lockable hasp. Cover is removable and movement releases from case at finger touch for easy installation.

**OTHER MOUNTINGS:** \*When ordering special enclosures ONLY, please use model number.

Noryl® Indoor/Outdoor NEMA 3R: (suffix N) – Model 9000N\*

Metal Indoor/Outdoor NEMA 3: (suffix O) – Model 9000A\*

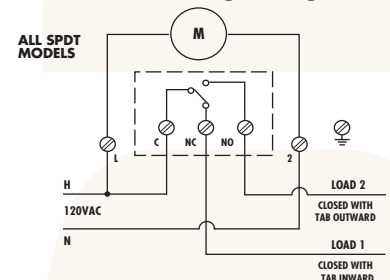
Flush, with lock and key: (suffix FL1) – Model 9001\*

Duplex – 2 standard units in one indoor/outdoor NEMA 3 metal case: (suffix DUOL) – Model 9004L\*

Bracket mounting – specify mechanism only with bracket.

Intermatic® Adapter Plate Model IAP – allows any TORK 8000 model to fit into an Intermatic case without changing enclosure

#### WIRING DIAGRAM



CAT NO	UPC CODE	SWITCH	TYPE	AMPS	H.P. RATING	MOTOR: AC VOLTAGE	MOTOR: Hz
8001	70001	SPDT	24 Hour	20	¼	120	60
8004	70002	SPDT	24 Hour	20	¼	208-277	60
8001U	70003	SPDT	24 Hour	5	¼	480/120 Trans.	60
8007	70005	SPDT	24 Hour, 7 Day Omit	20	¼	120	60
8008	70006	SPDT	24 Hour, 7 Day Omit	20	¼	208-277	60
8007V	70007	SPDT	24 Hour, 14 Day Omit	20	¼	120	60
<b>WITH RESERVE POWER</b>							
8007L	70015	SPDT	24 Hour, 7 Day Omit	20	3/4	120	60
8008L	70016	SPDT	24 Hour, 7 Day Omit	20	3/4	208-277	60
8007VL	70017	SPDT	24 Hour, 14 Day Omit	20	3/4	120	60

24 VOLT IN ALL MODELS AVAILABLE ON SPECIFICATION.

#### SPECIFICATION WRITER'S GUIDE 8000 SERIES

The time switches shall be of duty cycle type, capable of programming at 15-minute intervals of the day. Schedule tabs shall be captive on the dial, and shall be easily set by hand without tools to obtain or to change the desired schedule. The switching condition shall be maintained when adjacent tabs are set alike. The unit shall be powered by a self-starting enclosed 120 (or 208-277) volt synchronous motor capable of continuous accurate operation. The switch mechanism shall be a self-contained unit rated at not less than 20 amps, 120 volts, single pole, double throw, and shall be readily replaceable in the field.

FOR 8001 ADD: The time switch shall be similar and equal to Tork Model 8001. FOR 8007 AND 8007V ADD: An omitting device shall be furnished as an integral part of the time switch, to enable the switching operation to be skipped for any preselected day or days of the week. The time switch shall be similar and equal to Tork Model 8007 or (8007V.) FOR 8007L ADD: (Same description as for 8007.) The unit shall incorporate an integral electrically wound spring reserve power unit, which shall power the clock mechanism for up to 16 hours on a power failure. The time switch shall be similar and equal to Tork Model 8007L. FOR 8001U: The unit shall be furnished with built-in 480-120V transformer to operate timing motor in parallel with 480 volt load. The time switch shall be Tork Model 8001U.

# 8000 SERIES

## ELECTROMECHANICAL CONTROLS REPEATING VARIABLE CYCLE TIME SWITCHES

### MULTIPLE ON/OFF CYCLES PER DAY

#### APPLICATIONS

For one to many daily ON-OFF operations

- Duty Cycling
- Pumping
- Process Control
- Ventilating Fans
- Irrigation
- Laboratory Experiments

#### SPECIFICATIONS

**CONTACT RATINGS:** 20 Amps at 120 or 240V, 5 Amps at 480V, 3/4 HP at 120V AC

**TIMING MOTOR:** Heavy duty synchronous, self-starting, high torque. Power Consumption: 3 watts.

**DIAL:** Captivated tabs for setting are easily tilted in or out by hand. Switch stays ON or OFF as set when adjacent tabs are set alike.

#### 60 MINUTE DUTY CYCLE DIAL

1 to 30 ON-OFF operations per hour, 60 tabs permit 1 minute switching changes. Total Duty Cycle adjustable from 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, or 60 minutes with 1 minute minimum ON and/or OFF settings.

#### 30 MINUTE, 12 MINUTE, AND 6 MINUTE DIALS

60 tabs available with minimum ON or OFF settings of 1/60th of dial speed.

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

**ENCLOSURE:** See page 27 for dimensions. General purpose (NEMA 1). Drawn steel, beige enamel, with combination 1/2" and 3/4" K.O.'s on sides, bottom and back. Lockable hasp. Cover is removable and movement releases from case at finger touch for easy installation.

**OTHER MOUNTINGS:** \*When ordering special enclosures ONLY, please use model number.

Noryl® Indoor/Outdoor NEMA 3R: (suffix N) – Model 9000N\*

Metal Indoor/Outdoor NEMA 3: (suffix O) – Model 9000A\*

Flush, with lock and key: (suffix FL1) – Model 9001\*

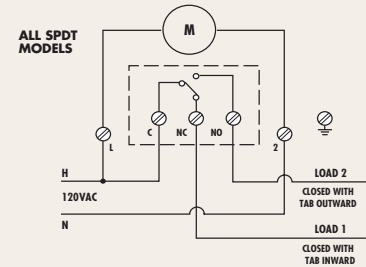
Duplex – 2 standard units in one indoor/outdoor NEMA 3 metal case: (suffix DUOL) – Model 9004L\*

Bracket mounting – specify mechanism only with bracket.

Intermatic® Adapter Plate Model IAP – allows any TORK 8000 model to fit into an Intermatic case without changing enclosure



#### WIRING DIAGRAM



CAT NO	UPC CODE	SWITCH	TYPE	AMPS	H.P. RATING	MOTOR: AC VOLTAGE	MOTOR: Hz
8601	70034	SPDT	60 Minute	20	3/4	120	60
8602	70035	SPDT	60 Minute	20	1 1/2	208-277	60
8301	70033	SPDT	30 Minute	20	3/4	120	60
8121	70032	SPDT	12 Minute	20	3/4	120	60
8061	70031	SPDT	6 Minute	20	3/4	120	60

24 VOLT IN ALL MODELS AVAILABLE ON SPECIFICATION.

#### SPECIFICATION WRITER'S GUIDE 8000 SERIES

The repeating variable cycle time switch shall be of the program tab-type, capable of programming in increments of 1/60 of one dial rotation. Program tabs shall be captive on dial and shall be easily set by hand without tools to obtain or change the desired programming schedule. The switching condition shall be maintained when adjacent tabs are set alike. The unit shall be powered with a self-starting, enclosed 120 (or 208-277) volt, synchronous motor capable of continuous accurate operation. The switch mechanism shall be a self-contained unit rated at not less than 20 amperes, 240 volt AC, SPDT, and shall be readily replaceable in the field. OPTION 1: Unit shall be furnished less case with mounting bracket (for mounting in control panel). OPTION 2: Enclosure shall be NEMA 1 surface with combination 1/2" and 3/4" knockouts on bottom, both sides, top and back (or see other mountings). There shall be at least 25 cubic inches of available space at bottom of enclosure to facilitate wiring. A slip-out arrangement will be included to permit prompt removal of the time switch mechanism. Provision shall be made for positive padlocking. Timer shall complete one dial rotation in \_\_\_ minute(s) and shall be TORK Model 8 \_\_\_ (to fit requirement).