http://waterheatertimer.org/Tork-timers-and-manuals.html#TU
http://waterheatertimer.org/How-to-wire-Tork-DTU40-timer.html

TORK® UNIVERSAL MULTI-VOLTAGE ELECTROMECHANICAL TIME SWITCH

c UL us

MODEL#: **TU40** PATENT PENDING

FEATURES:	• Real-Time Clock Face with OFF/AUTO/ON Override Switch • Captive Trippers • 15 Minute Intervals • NEMA 3R Plastic Indoor/Outdoor Enclosure	• Green LED Indicates power • Red LED indicates load status • 40 AMP DPDT Contacts • 8-18 AWG Screw Terminals
OUTPUT:	DPDT, Dry Contacts (Unpowered) all in one may also be used for SPST, SPDT, DPST	
CONTACT RATINGS:	**NO CONTACTS:** 40 AMPS RESISTIVE @ 120-277 VAC 30 AMPS INDUCTIVE @ 120-277 VAC 1HP, 30FLA, 90LRA @ 120 VAC 2HP, 20FLA, 60 LRA @ 240 VAC 30 AMPS BALLAST @ 120 VAC 20 AMPS BALLAST @ 277 VAC 15 AMPS TUNGSTEN @ 120 VAC 5 AMPS TUNGSTEN @ 250 VAC 20 AMPS RESISTIVE @ 28 VDC 720 VA PILOT DUTY @ 120-240 VAC 30 AMPS MAX ABOVE 104°F	**NC CONTACTS:** 30 AMPS RESISTIVE @ 120-277 VAC 15 AMPS INDUCTIVE @ 120-277 VAC 1/4HP, 12FLA, 30 LRA @ 120 VAC 1/2HP, 12FLA, 33 LRA @ 240 VAC 10 AMPS BALLAST @ 120-277 VAC 290 VA PILOT DUTY @ 120VAC 360 VA PILOT DUTY @ 240 VAC
OPERATING TEMP:	-31°F to 116°F (-35°C to +47°C) Relative Humidity is 10% to 95%	
TIMER SUPPLY:	120/208-240/277VAC, 60Hz Detects voltage automatically (NO DIP SWITCH SETTING REQUIRED)	
POWER CONSUMPTION:	6VA Max @ 120VAC	

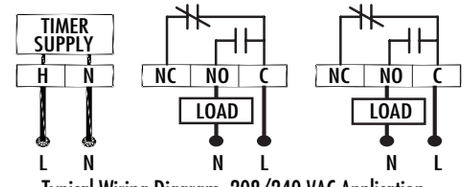
INSTALLATION & WIRING DIAGRAMS

UNIT IS TO BE INSTALLED BY A LICENSED ELECTRICIAN

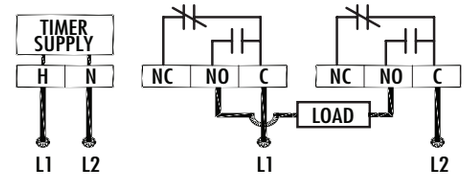
1. Mount the enclosure at eye level using screws or other suitable fastening device. Bring supply and load wires in through bottom or side knockouts.
2. Wire as per typical wiring diagram below, and follow all local and NEC codes.
3. To ensure proper connection to the terminal block, turn the screw fully counterclockwise before inserting wires. Firmly fasten the screw terminal

Use copper wire AWG 8-18 suitable for 90°C. WIRING TO COMPLY WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES. Bonding between conduit connection is not automatic and must be provided as part of the installation. THE ENCLOSURE MUST BE PROPERLY GROUNDED. Minimum 10.6 lb. in. torque required at the terminals to ensure proper connections. Strip the supply and load wires to 1/2".

Typical Wiring Diagram, 120/277 VAC Application



Typical Wiring Diagram, 208/240 VAC Application



SETTING ON/OFF TIMES

1. The timer has 96 tabs which can turn loads ON or OFF every 15 minutes. Push tabs outward to turn the load ON, and pull them inwards to turn the load OFF for the desired ON and OFF durations.
2. Rotate dial clockwise to set the time. Align time with arrow. DO NOT ATTEMPT TO SET THE TIME BY USING THE MINUTE HAND IN THE CENTER OF THE DIAL.
3. Automatic operation: To execute the programmed schedule, set the selector switch to the center position. (Shown by clock symbol)
4. MANUAL OVERRIDE: Set the switch to the "I" position to turn the load permanently ON. Set the switch to the "0" position to turn the load permanently OFF.