

# Time Switches

## Description:

Time switches mounted inside a NEMA 3R enclosure are designed for control of heating, ventilating, air conditioning, refrigeration, lighting, security, circulating pumps, spas or any electrical load requiring 24-hour scheduling

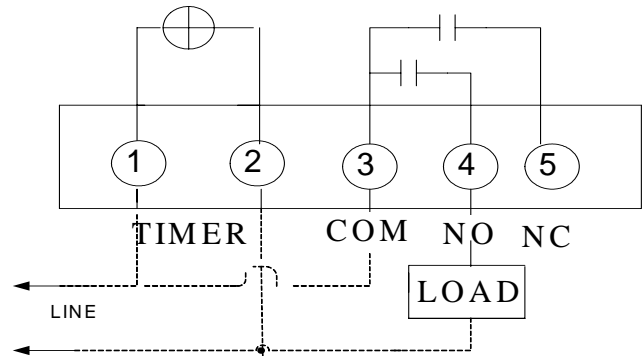


## Approval:

1. UL Listed: E322687
2. CE

## Typical connection:

Contacts shown in “Off” position (trippers pushed inward)  
“On” position (trippers pushed outward) will close contacts 3 & 4



**GROUNDING:** This enclosure is of plastic construction and does not require a ground connection and does not require bonding in pool applications.

This enclosure does not provide grounding between conduits. When using non-metallic conduit or cable, connect the ground wires of all cables together with a wire nut. When metallic conduit is used, use grounding type bushings and a jumper wire between each conduit

## Programming:

The time switch is programmed by pushing the captive trippers to the outer ring position for the entire period that the load is to be turned “ON”, i.e., fifteen minutes for each tripper on the 24-Hour dial. When the tripper is pushed to the inside, the switch is in the “OFF” position.

## Programming with manual override switch:

### 1. AUTOMATIC MODE

In order to operate the time switch module in the automatic mode, the manual switch must be in the center position (automatic) - see diagram.

### 2. MANUAL MODE

With the manual switch selector lever the selected programs can be overridden. In the lower position, marked “O”, terminals 3 and 5 are permanently closed. In the upper position, marked “I”, terminals 3 and 4 are permanently closed (see diagram).

## Input:

1. Voltage: 120V, 208V and 230VAC (Tolerance  $\pm 10\%$ )
2. Frequency: 60 HZ (Tolerance -5% - +5%)
3. Power Consumption: 1VA

## Output:

1. Type: Isolated relay contracts
2. Form: SPDT
3. Rating: 20A resistance at 125V  
1HP @ 125VAC  
2HP @ 240VAC
4. Max switching Voltage: 250V AC
5. Life Operations: Mechanical:  $1 \times 10^7$ ; Electrical:  $1 \times 10^5$

## Mechanical:

1. Mounting: Screw clamp terminals for up to AWG #10 wires.

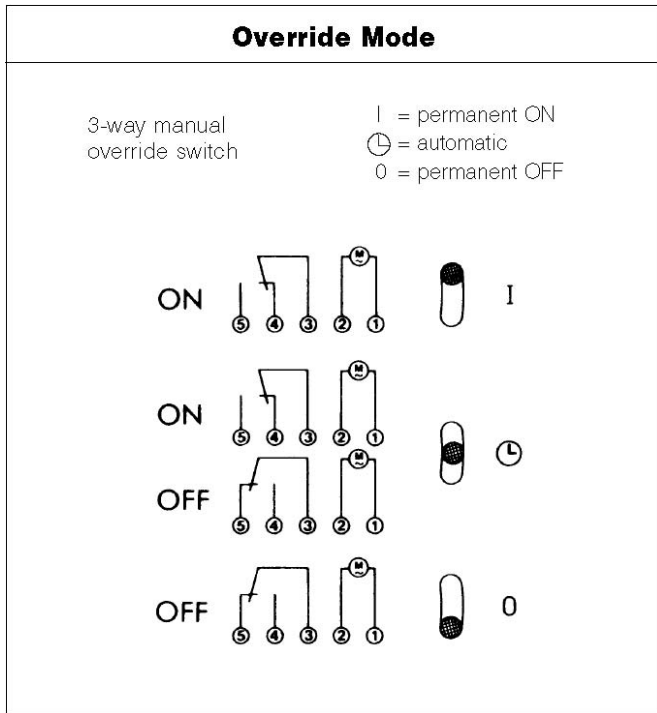
## Environmental:

1. Operating temperature:  $-40^{\circ}\text{F}$  to  $+160^{\circ}\text{F}$
2. Storage temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
3. Humidity: 95% relative, non-condensing
4. Weight: 15oz

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# Time Switches



**Order information:**

| Product   | Input Voltage  | RoHS |
|-----------|----------------|------|
| MT-110132 | 120VAC         | Yes  |
| MT-110232 | 208VAC, 230VAC | Yes  |

**MaxTronic Technologies LLC**