# Time Switch

15251/15253
Indoor
NEMA 1-Rated Enclosure

15252
Indoor/Outdoor
NEMA 3R-Rated Enclosure

## SPECIFICATIONS

Input Voltage: 120 VAC, 208/240 VAC, or 277 VAC in all units based upon dipswitch configuration.

| | | | |
|---|---|---|---|
| **15252** | **NEMA 3R** | **Indoor & Outdoor** | **BM-A301US5-O2** |
| **15253, 15251** | **NEMA 1** | **Indoor** | **BM-A301US5-I2** |
| **15250** | **NEMA 3R** | **Indoor & Outdoor** | **EM-A301US9-O2** |

**Switch Rating: DPDT Models**
**Normally Open Contacts**
- 40A Resistive, 120-277Vac.
- 30A General Purpose, 120-277Vac.
- 20A Resistive, 30Vdc
- 1 HP, 120Vac ; 2HP, 240Vac
- 20A Ballast, 120-277Vac.
- 15A Tungsten, 120Vac
- 800VA, Pilot Duty, 120Vac.
- 720VA, Pilot Duty, 240Vac.
- TV-5, 120Vac

**Normally Closed Contacts**
- 30A Resistive, 120-277Vac
- 15A General Purpose, 120-277Vac
- 15A Resistive, 30Vdc
- 20A Ballast, 120-277Vac
- 1/4HP, 120Vac; 1/2HP, 208-240Vac.
- 290VA, Pilot, 120Vac.
- 360VA, Pilot, 208-240Vac.

**NOTE:** If loads are connected to both NC and NO contacts, both contacts are derated to 67% of the above values.

## ENVIRONMENTAL RATINGS

Ambient Temperature: –40F to 130F
Humidity: 0-95% RH, Non-condensing

## WIRING CONNECTIONS

Screw clamp terminals for up to 2 AWG #8 wires
per position. For supply connections, use 8AWG or larger wires suitable for at least 105° C. Use copper conductors only.

## LIGHTS

Power LED (Orange) – Light illuminates when power is applied to the timer
Status LED (Green) – Light illuminates when power is applied to load.

## INSTALLATION

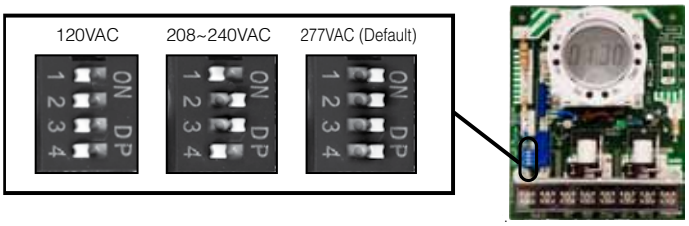
**CAUTION:** Before wiring or service, power to this time switch and the equipment it controls must be turned off. Turning off the timer switch only will not prevent a shock hazard. Replace cover plate within housing before supplying power to time switch. Installation should be performed by a licensed electrician only. Before installing this product read all instructions carefully. Remove protective cover panel within time switch housing by removing screws located above timer face and at the bottom of the cover panel.

## DIPSWITCH CONFIGURATION

**WARNING:** Failure to properly configure the dipswitch will result in damage to the unit and void the warranty! Before installing and wiring the GE Time Switch, proper configuration must be selected. This is accomplished as follows:

**INPUT VOLTAGE DIP SWITCH SETTING:**

1. Do not apply power to the timer prior to setting correct Input Voltage DIP switch.
2. Determine the input voltage which will be applied to the timer (i.e. L1 and L2/N terminals, see wiring diagrams)
3. Set the DIP switch according to the diagram below.




**NOTE:** Unit is shipped with DIP switches set for 277VAC Input Voltage
**CAUTION:** Do not check circuits by "sparking" wires to terminals. Damage to the timer may result.

**NOTE:** For outdoor locations (model GE 15252), rain tight or wet location conduit hubs that comply with requirements of UL 514B (standard for fittings for conduit and outlet boxes) must be used.

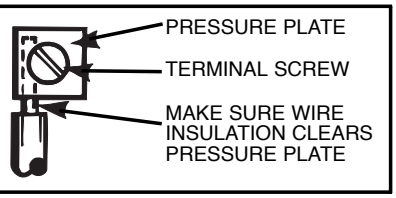
1. Remove 2 screws retaining the interior cover panel and remove panel by prying out with a thin blade at the top.. Select knockouts to be used. Remove the inner 1/2" knockout by inserting a screwdriver in the slot and carefully punch knockout loose. Remove slug. If the 3/4" knockout is required, remove the outer ring with pliers after removing the 1/2" knockout. Smooth edges with knife if necessary.
2. Place enclosure in desired mounting location and mark the three mounting holes.
3. Drill holes for #10 screws, start screws in holes.
4. Place enclosure over screws and tighten screws.
5. Connect conduit hubs to conduit before connecting the hubs to the enclosure. After inserting hubs into enclosure, carefully tighten hub lock nut. Do not over-tighten.

**Dipswitch Setting continued:**

6. Install in accordance with all applicable National and Local code requirements. See Figure 1 and wiring diagrams.
7. Replace interior cover panel and 2 screws.

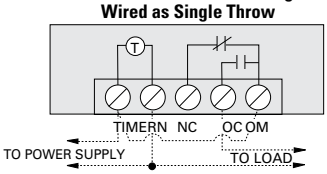
**FIGURE 1**

| MINIMUM COPPER WIRE SIZE (AWG) | MAX. LOAD (AMP) | MIN. INSUL-ATION TEMP(°C) | 75°C INSULATION MAX. MOTOR LOAD (HP) | | | |
|---|---|---|---|---|---|---|
| | | | SINGLE PHASE | | 3 PHASE | |
| | | | 120 V. | 240 V. | 208 V. | 240 V. |
| 14 | 15 | 60 | 1/2 | 2 | N/A | N/A |
| 12 | 20 | 60 | 1 | 2 1/2 | | |
| 10 | 30 | 60 | 2 | 3 | | |
| 8 | 40 | 105 | - | 5 | | |

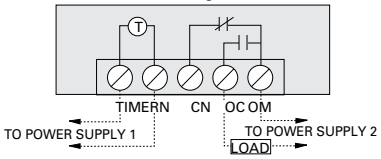



## Typical Wiring Diagrams—SPDT

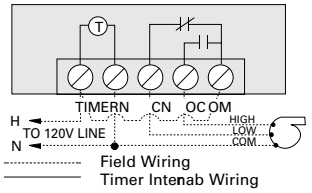
**Timer and Load, Same Voltage Wired as Single Throw**




**Timer and Load, Different Voltage Wired as Single Throw**

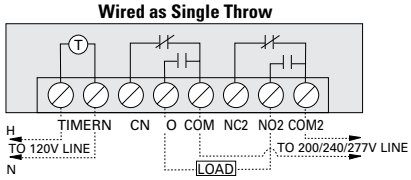



**120V Two Speed Fan Wired as Double Throw**

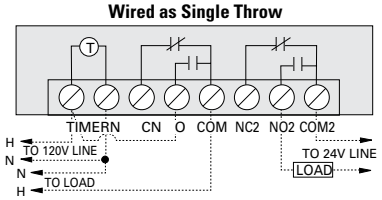



## Typical Wiring Diagrams—DPDT

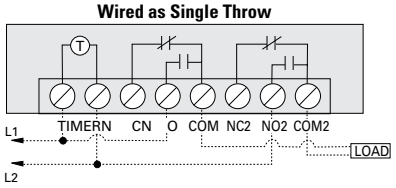
**120V Timer, 200/240/277V Load Double Break Wired as Single Throw**




**120V Timer, 120V Load and 24V Load Wired as Single Throw**




**200/240/277V Timer, 200/240/277V Load, Double Break Wired as Single Throw**




## GROUNDING:

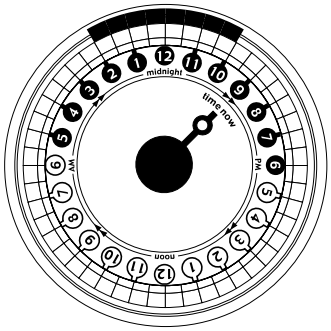
This enclosure is of plastic construction and does not require a ground connection and does not require bonding in pool applications.
This enclosure does not provide grounding between conduits. When using non-metallic conduit or cable, connect the ground wires of all cables together with a wire nut.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

## OPERATING INSTRUCTIONS:

When the Time Switch is installed and power applied, the timer's dial will turn clockwise maintaining time. The pointer on the face of the dial points to the current time

1. Locate the segments around on the outer edge of the timer's dial. These segments, each representing 30 minutes, can be pushed down and away from the edge of the dial (try using the tip of a pen or pencil). Conversely, segments that have been pushed down can be easily pushed back up by hand. Be sure all segments are pushed up before programming. Select a time period (or periods) you want the device turned on, then push down ALL the segments that fall on or within that time period. For example, to have the timer turn a device on at 10PM and off at 2AM, push down the segments representing 10PM and 2AM, and ALL the segments in between. You may need to turn the dial clockwise to access the desired segments.
2. Rotate the timer's dial clockwise until the pointer on the face of the dial points to the current time of day. Note: Nighttime hours (from 6:30 PM to 6:30 AM) are highlighted with a grey background.
3. Set master switch to the TIMER position.
4. To override timer program and control output load manually:
   - set master switch to OFF (center position) to turn load OFF
   - set master switch to ON (bottom position) to turn load ON
5. This is a Timer Control and should not be used for power disconnect. Turn power off at main panel before servicing this switch or the equipment it controls.

In case of power failure, reset the time of day as explained in step 2.




### TIMER DIAL

Shows timer set to turn device ON at 10PM and OFF at 2AM. Notice ALL segments between 10PM and 2AM have been pushed out. Current time is 9:00 PM.