



# CP-U49A Multi-Voltage DPDT Time Control

## PRODUCTS BRIEF

This time control is a universal, electro-mechanical time control which can be field configured for various power: 120VAC, 208VAC, 240VAC, and 277VAC, all in one unit. Selection of the desired supply voltage is easily achieved by positioning the dip switch to the required voltage. This time control comes in a NEMA 3R indoor and outdoor enclosure. This unit is intended for the control of lighting, heating, air conditioning, pumps, motors, or general electrical circuits in residential, commercial, industrial and agricultural facilities.

Switch Rating: DPDT.

## SKU# & SPECIFICATION

No.	SKU#	Min. Time Interval	ON/OFF per day	Box Type	Switch Rating
1.	CP-U49A	15 minutes	48	N-3R Non-Metallic Enclosure	DPDT

## TECHNICAL INFORMATION

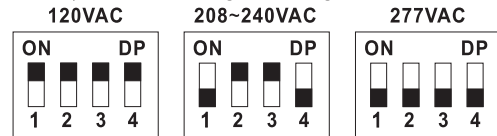
- 120-240VAC, 60Hz, 40A resistive
- 277VAC, 60Hz, 30A resistive
- 14VDC, 30A resistive
- 120VAC, 1HP, 10A Ballast
- 208-240VAC, 2HP, 5A Ballast
- 277VAC, 1HP, 5A Ballast
- 120VAC, 8.3A Tungsten
- 208-277VAC, 5.4A Tungsten
- 120VAC, 800VA Pilot Duty
- 208-277VAC, 720VA Pilot Duty
- TV-5
- Max programs per day: 48 ON/OFF
- With power and load indicator
- With ON/OFF/ Timing manual switch
- Min. Setting time: 15 minutes
- Max. Setting time: 24 HR
- Environmental rating: -40°F to 130°F
- Humidity: 0-95%;

## INPUT VOLTAGE DIP SWITCH SETTING

**Caution: Dip switch voltage selection must be finalized prior to applying power to the time control.**

1. Do not apply power to the timer prior to setting correct input voltage using the DIP switch.
2. Determine the input voltage using the DIP switch (see wiring diagrams).

3. Set the Dip switch according to the diagram below



**NOTE: THE FACTORY DEFAULT SETTING FOR DIP SWITCH IS FOR 277VAC INPUT VOLTAGE.**

Caution: Do not check circuits by sparking wires to terminals, Damage to the timer may result.

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

## LED INDICATORS FUNCTION

Power LED (Red) – light illuminates when power is applied to the timer.  
Status LED (Green) – light illuminates when power is applied to the loads.

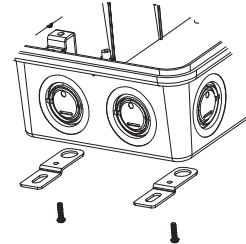
## INSTALLATION

Before wiring or service, power to this time control and the equipment it controls must be turned off, turning off the time control only will not prevent a shock hazard. Supplying power to time control, installation should be performed by a licensed electrician only.

Before installing this product read all instruction carefully.

Choose the appropriate KO's according to the cable, wire size and direction.

Optional external mounting tabs are provided as following:



Remove protective cover panel in time control housing by pressing the clip at the bottom of cover panel.

## DIP SWITCH CONFIGURATION

**WARNING, FAILURE TO PROPERLY CONFIGURE THE DIP SWITCH WILL RESULT IN DAMAGE TO THE UNIT AND VOID THE WARRANTY, BEFORE INSTALLING AND WIRING THE TIME CONTROL, PROPER CONFIGURATION MUST BE SELECTED, THIS IS ACCOMPLISHED AS PER THE ABOVE DIP SWITCH DIAGRAM.**

## OPERATING INSTRUCTIONS

When the Time Control 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 15 minutes, can be pushed down and away from the edge of the dial (using a small slotted screwdriver or other fine point instrument) to set the load "ON" period.

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 6:00 PM to 6:00 AM) are highlighted with color background.

3. Set override switch to the AUTO position.

4. To override timer program and control output load manually:

Set override switch to OFF (center position) to turn load OFF

Set override switch to ON (bottom position) to turn load ON

5. This is a Time Control and should not be used for power disconnect.

Turn power off at main panel before serving this switch or the equipment it controls.

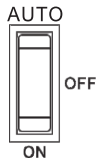
In case of power failure, reset the time of day as explained in step 2.

## OVERRIDE SWITCH FUNCTION

AUTO- Programs active: timer will function according to scheduled program

OFF- Always off: timer is in override and in "OFF" mode until override switch is set to ON or AUTO

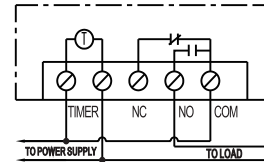
ON- Always on: timer is in override and load will remain "ON" until the override switch is reset to OFF or AUTO



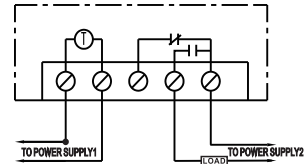
## WIRE CONNECTION DRAWINGS

### Typical Wiring Diagrams--SPDT

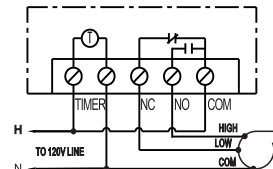
Timer and Load, Same Voltage  
Wired as Single Throw



Timer and Load, Different Voltage  
Wired as Single Throw

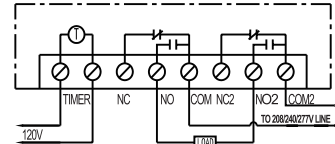


120V Two Speed Fan  
Wired as Double Throw

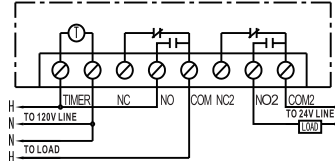


### Typical Wiring Diagrams--DPDT

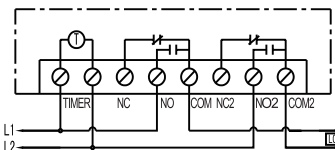
120V Timer, 208/240/277V Load, Double Break  
Wired as Single Throw



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



208/240/277V Timer, 208/240/277V Load, Double Break  
Wired as Single Throw



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