



RMG AUTOMATION

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Multi-Cycle Timer for Water Pump Controller

Model : MCTWPC



User Manual

Version 2.0-09/23

1. INTRODUCTION

This is a multiple cyclic programmable timer which can be used for water pump control. This timer has 10 programmable slots (time ranges). Each slot can be programmed from 0:01 – 9:59 (Hours: Minutes). It has the 3 modes of operation. ON mode, OFF mode, CYCLIC mode operations are available.

2. DESCRIPTION

- **Power ON/OFF switch:** To Power ON/OFF the timer controller.
- **POWER LED:** It indicates the power supply to the unit.
- **LOAD LED:** It glows when motor connected to it is in ON condition.
- **Seven Segment Display:** Displays settings/status of the timer controller.
- **SET key:** It is used for entering the menu and to save the settings.
- **NEXT key:** It is used for moving to the NEXT options like Menu, Successive Locations.
- **INC key:** Used to increment value from 0 to 9.
- **Modes:** Has 3 modes of operation – ON mode, OFF mode and Cyclic mode.

ON mode: This is achieved when the first slot alone is programmed for the desired hours and minutes to switch ON the device. The remaining 9 slots will not be programmed and is kept zero. The device connected to this pattern will be ON for the programmed Hours:Minutes and then gets switched off.

OFF mode: This is achieved when the first slot alone is programmed for the desired hours and minutes to keep the device in OFF condition and then continued ON. The remaining 9 slots will not be programmed and is kept zero. The device connected to this pattern will be OFF for the programmed Hours: Minutes and then gets switched ON continuously.

CYCLIC mode: Here 2 or more than 2 slots are programmed for the desired Hours: Minutes. The programmed slots will run in its step by step cyclic pattern in a sequential manner. The device connected to this pattern will be ON for the programmed Hours: Minutes and then gets switched OFF for the programmed Hours: Minutes. Desired time is fixed in each slot. (No. of slots can be 2 or more as per requirement.).

3. TOOLS REQUIRED

- Multistrand power cable
- Insulation tape
- Wooden Gattas
- Line tester
- Wire stripper
- Simple hammer
- Drill gun
- Screws for mounting unit on wall

4. INSTALLATION PROCEDURE

Caution: Switch off the main power while doing the Power Connection steps.

Step 1: Wall mount the timer controller nearby the switch/ starter of motor which requires timer operation..

Step 2: As per the model purchased, check the label and connect AC supply (230V / 440 V) to red and black wire of timer refer figure 1.

Step 3: Connect blue pair wire to the switch/MCB of the load in parallel as shown in figure 1.

Step 4:For starter, Connect blue pair wire to ON button of starter in parallel and black pair wire to OFF button in series(Refer to figure. 2 and figure. 3)

Note: In case of doubts please call 044 - 43180017 or What's App 9940594413 from Monday to Saturday 10 am to 6 pm.

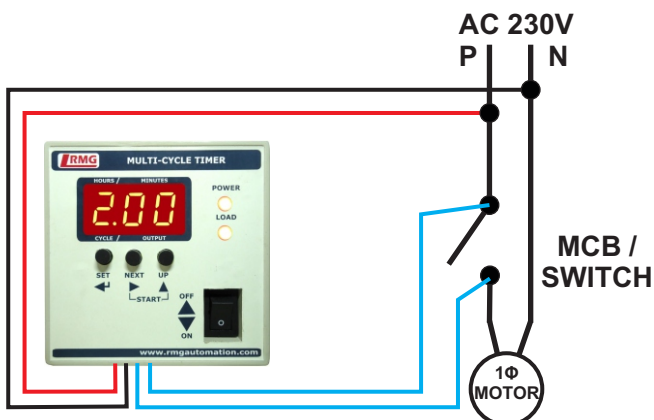


Figure1: 1Φ SWITCH/MCB

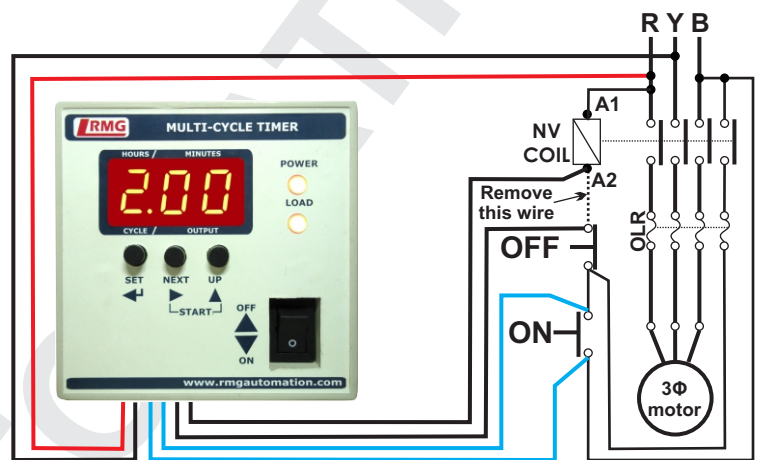
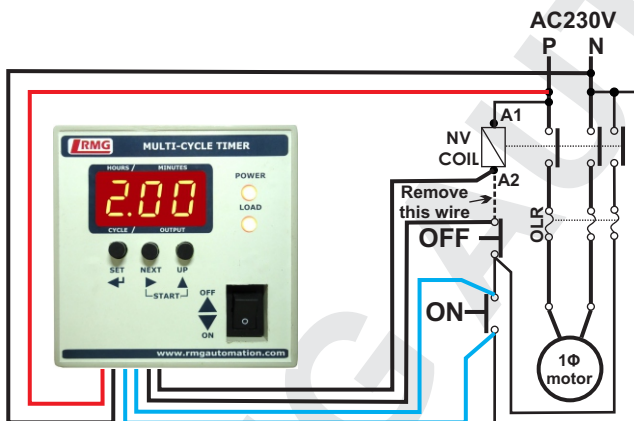


Figure2: 3Φ Starter



5. OPERATING PROCEDURE

- Switch ON the device using the power ON/OFF switch. POWER LED will glow. There is a power ON delay of 6 seconds.
- Using SET, NEXT and INC keys program the timer depending on your requirement. Refer **Programming methods** for more programming.
- By pressing **NEXT** and **INC** keys together we can start timer operation.
- Depending upon the program, Timer will ON/OFF the motor connected to it. LOAD LED will be glow when motor is in ON condition.
- Timer will show current running cycle number and time elapsed in its display, when timer is working.

- The timer stores the current settings in non-volatile EEPROM memory, so no need to program again. Also stores the running time in EEPROM to continue the remaining time once power resume.

6. TROUBLE SHOOTING METHODS

Sl. No.	Error	Solutions
1	Device dead / Not Powered ON	a. Check the power connection wires for loose contacts. b. If problem continues, contact RMG Automation for support
2	Motor not switching ON	a. Check whether the connections are given properly. b. If connections are okay and still issue persist, contact RMG Automation for support

5. PROGRAMMING METHODS

