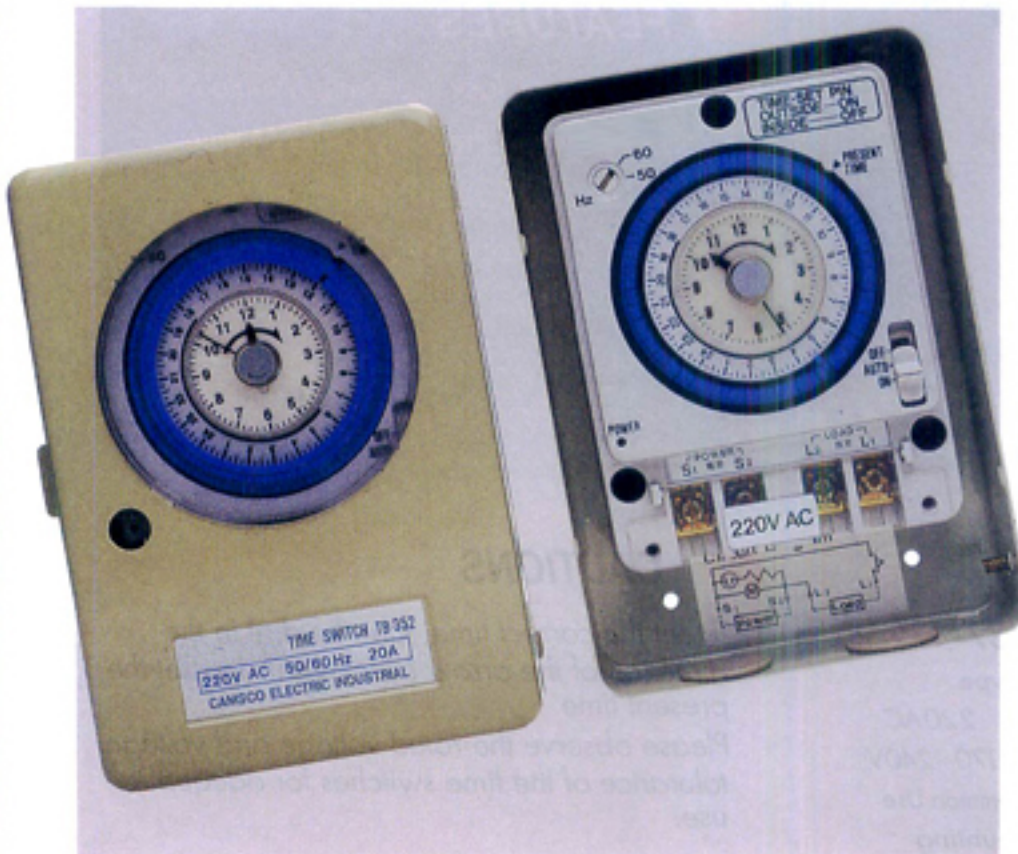


# SHINOHAWA 24 Hours Automatic Time Switch TB-35



## FEATURES

- 15-minute-Interval, 24-Hour Dial with Built-in (Embedded) Time Set Pins**  
The embedded time-set pins permit switching on and off in 15 minute intervals (max.96 operations a day) for more precise control of loads. There are 96 pins built into the dial, thus eliminating the danger of misplacement and the need to store or re-order time-set pins.
- Direct Reading Clock Type with Minute Adjust Knob to Set Time Precisely to the Minute**  
The time can be set precisely to the minute by simply turning the minute adjust knob. This feature, combined with 15 minute interval operation settings, permits more precise load control.
- Handy ON/AUTO/OFF select switch**  
Allows selection of "MANUAL ON" or "MANUAL OFF" as desired, irrespective of the program. Very convenient for use on a test run or continuous operation for a long period of time.
- Improved load capacity**  
By the adoption of the highly reliable contact mechanism, the incandescent lamp load has substantially been improved from 3A on the current product (TB33) to 10A to eliminate such cases of trouble as fusing of the contact, etc.
- Attractive design**  
The sense of high quality and precision is expressed with the simple yet very attractive design.
- Power supply indicator lamp**  
The condition of power supply to the time switch can be seen at a glance by means of the lamp.
- The thinner case strong steel**  
Outer dimensions: 105.5(w) x 150.5(h) x 44(D)mm

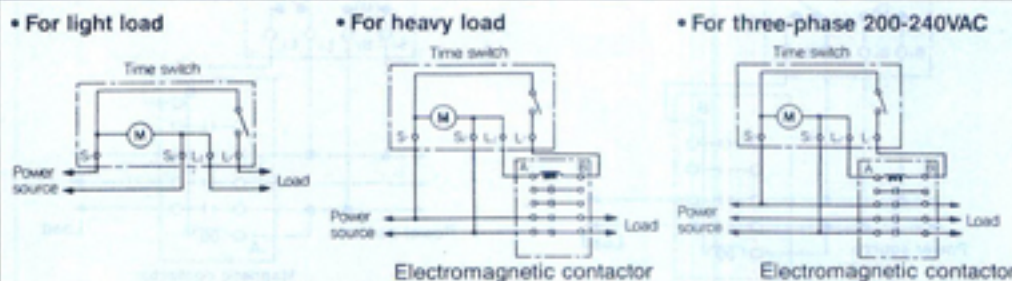
## SPECIFICATIONS

Item No.	TB-35		
Movement type	AC type		
Rated voltage	110V AC	220V AC	240V AC
Voltage tolerance	85 ~ 120V	170 ~ 240V	220 ~ 260V
Frequency	50/60Hz (Selectable)		
Power consumption	1.5W		
Time precision	Same as AC current frequency		
Manual ON/OFF	ON/AUTO/OFF switch		
Ambient temperature	110°C ~ +50°C		
Resistive load	250V AC 15A		
Lamp load	10A		
Inductive load	12A (COSφ=0.7 or more)		
Motor load	110V AC 750W	220V AC 1500W	
Switch construction	SPST		
Minimum setting unit	15 minutes/unit		
Minimum setting interval	15 minutes		
No. of On/OFF operations	96 operations		
Weight	480 g		

## OPERATING PRECAUTIONS

- The precision and life of Time Switch are affected by the environmental conditions. Please do not use it in the following areas:
  - The ambient temperature is below -10 or over 50 C
  - The humidity is high
  - There is dust or gas
  - There is vibration or shock
  - There is exposure to direct sunlight
- Turn the knob in the direction (clockwise) indicated by the arrows. It cannot be turned in the opposite direction.
- When a heater is connected to the load circuit, a thermostat switch must be included.
- The Time Switch must be grounded when used in the conditions as follows:
  - The input power supply is 220V AC or more.
  - High humidity is expected in the place.

## CIRCUIT DIAGRAMS



When used for loads exceeding the rated capacity, it is imperative that this unit should be used in combination with a magnetic contactor according to each load.