Equipment within the load type

Quartz power compensating Time switch

TBS388

# Instruction

- Read the instruction carfully before using it to ensure correct construction.
- The workers must be have recoginzed ejectrical construction guallon by

Save these instruction



### Safety precautions

### **∴WARNING**

- Do not use the time switch in any equipment that supports human death or significant social problems and this switch is esticitly not intended for such applications.
- If you want to use the time switch in equipment that could cause a financial loss if a fallure occurs(such as in heaters and refrigerators), select a model with excess capacity in terms of characteristics and performance, then also take safety measures such as providing suplicate circuits.

- . Do not repair it by youself, break down, or reform. Otherwise it will cause shock fire or failure
- Please use the appropriate power wire.
- If you use appropriate power wire, will lead to a damaged or fire
- Please connected the bolt of terminal firmly. it will lead to a damage orfir if loose
- Dont use the time switch where it mighe be splashed by water or oll you mayreceive an electrical shock ,cause a fire,or damage the switch.
- please cut the main power supply, before you operation inspection it Otherwise, you may be shock by the electric.
- Do not connect to the rated power outside of the power supply. Or it will cause a fire and damage.
- Please do not directly control the load whitch above rated load ,will lead to a damaged or fire. In this case, please use the electromagnetic contactor and other equipment

### Attention in the construction

- Do use it in the following situations. Otherwise it will lead to malfunction, failure or leakage.
  - The use of places below -10°C or above +50°C
  - Such as rain or sunshine outdoor directly the place
  - The place where condensation of dew.
  - · The place where with sulfurous acid gas or ammonia and other corrosive gas
  - · The useing place with Heavy moisture or more powder
  - The place where occurr vibration or shock.
  - High frequency noise, electric field, magnetic field
- The output voltage on the output terminal is the same as the power supply voltage.
- Please do not put the power terminal and the output terminal of confusion.
- Load capacity exceeds the rated load of the occasion, or load for the three-phase load situation, please use the electromagnetic contactor and other equipment.
- Construction ended, please fully confirm the correctness of the connection, and then the main power supply is switched on for trial operation.

#### About Nickel metal hydride battery compensation

#### ①About time power compensation

The timing switch has built-in power compensation of nickel-hydrogen battery.

- . If the timer switch is switched on, nickel-metal hydride batteries start charging automatically.
- The timer will be full of power after three days of continuous switching.
- Power outages or exceed the power cut compensation time long time power failure will make the battery life.

#### ONickel metal hydride battery replacement method

Battery life of about3years, the use of higher temperature, life will be more shortened. So please advance the battery replacement, ( model;



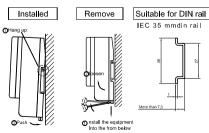
Please be sure to cut off power supply befor replace the battery. Or have the risk of electric shock

- 1.Remove the battery cover.
- 2. Take the nickel-hydrogen battery out of the battery compartment and disconnect the connector
- 3.Connector to the newbattery.and store the battery in the compartment
- 4.Make sure to put the battery cover back on.

### 1 How to install The occasion of exposed on the surface of install and use In the ontology of two installation hole with wooden bolt to

be fixed.

The occasion of DIN rail use



## ② Wiring examples

①Suitable wire(Please use 600V plastic insulated wire)

• singlet wire.....  $\Phi$  1. 2  $\sim$   $\Phi$  2. 0 mm

• Stranded wire ..... 1. 25  $\sim$  2 mm<sup>2</sup>

**I**∧Caution

Wire processing

Tighten bolts with field.

■The appropriate

tightening torque

- 1. The use of inappropriate wire will become a fire damaged or the cause of the fire.
- 2. Please do not use welding wire. The welding line is not firm and caused by poor contact will be the cause of the fire.

When using a single wire • Strip the coverback 14±2mm .

When using a twisted wire Please use round plastic pressure terminal with insulating tube(usingM4)

More than Ø4.3m

(Actual size) 3 Connected to terminals

clip in the liner inside

CAUTION

Please click below the main point to connect .

Insert the wire completely

Make the wire at the front depend on the surface.

1. when tightening two separate ines,insert them both from the side of the screw asshown on zhe right, Do not make the bare wire out of the surface lease do not make wire

2. Not in a terminal connecting three or more wires. Otherwise it will cause bad contact and lead After the end of the wire connection please fully recognized wiring it to a fever, fire and other accident.

CAUTION

(4) Connection confirmation

When Load circuit short circuit occurs, will lead to timing switch failure.

#### Wiring example

please draw contains timer switch control equipment of the whole system hookup. Before the wire connection.

