

**\*\*Warning: Read the safety instructions before you start installation. If these instructions are not followed, the manufacturer's liability and warranty are forfeited. manufacturer is not liable for any change in the regulations and standards introduced after the publication of this manual.**

## I. Introduction:

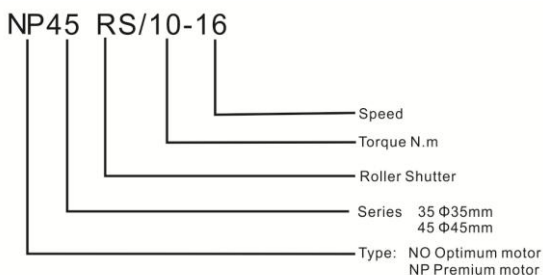
These products are used as electric drives and auto controls for shutters, rolling doors, awnings or allied mechanisms. Complete motor has features of compact structure, easy operation, convenient installation and reliable performance, and widely applies to residences, shops, hotels, garages, and so on.

## II. Warnings:

- Motor installation and adjustment should be operated by professional staff, using the appliance only in the described manner.
  - Don't use or stop the use if the appliance is damaged, especially the electrical wire and sleeve. If the cable is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.
  - Children can't recognize the risks of electrical appliances. Therefore use or keep the appliance only under supervision of adults or out of the reach of children.
- \*\*Important safety instructions. It is important to follow and keep these instructions for the sake of safety.**
- Don't operate the awning when maintenance, such as cleaning window, is being carried out in the vicinity.
  - Don't allow children to play with remote control. Keep remote control away from children.
  - Before installation, please check whether drive parts have good mechanical performance, balance and the action of open and close.
  - Motor installation should be correct and reliable. Shutter should move along its rail smoothly, without any hindrances.
  - Electrical outlet should collocate earth jack and be reliably connected to the earth.
  - For installation for awnings, a horizontal distance of at least 0,4m is to be maintained between the fully unrolled driven part and any fixed part.
  - The rated torque and operating time required must be calculated when selecting a motor for a blind, awning or shutter.
  - The cables must be installed inside the room unless they are protected by conduit which is sun resistant.
  - When operating the motor, ensure there is no person within the area before the door or shutter closes completely.
  - All wire can't touch the roller shutter during the installation and use of motor. Keep the receiving antenna in good conditions. (Don't cut the antenna short or wrap metal material around it, otherwise, it will affect the control.)
  - It will be better to install the motor in the ventilation and desiccation environment.
  - Before carrying out any form of maintenance, isolate the power to the motor and controls.
  - In case you have any questions regarding the installation and the operation of the Manufacturer motor, or the accessories, please call+86-572-3787555 for the consultation.
  - The product can only be used when it is protected by an external rolling tube.
  - Ensure the color of the wire connection keep consistent between the setting switch and motor,
  - Ensure the Roller shutter moves up while pressing the Up button on the setting switch, and move down while pressing the Down button on switch.
  - The obstacle detection function works ONLY after the limit setting finished.
  - There are ONLY two ways to set the limit: Automatic and Manual.

## III. Product Type Instruction:

1.Type instruction:



2.Label instruction:

Example: NP45 RS/10-16

Rated Voltage:AC230V

Rated Power: 150W

Rated Speed: 16rpm

Rated operate time: 4min

Protection class: H

Frequency: 50Hz

Rated Torque: 10N.m

Rated Current: 0.65A



: Read instruction before installation

Moisture protection : IP44



: Conformity European



: Only interior decoration



: Don't throw in the life rubbish

#### IV. Feature:

1. Insert the motor into the roller, the motor will pass the torque onto the roller through the adaptor, and to drive the rolling doors or the similar equipment up and down.
2. Regulate the open and close position of the shutter through the limit switch unit inside the motor.
3. Product Scheme: Refer to Fig.1

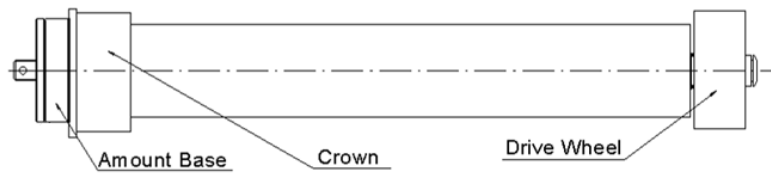


Fig.1

#### V. Installation:

1. Ensure the supplied power is in accordance with the specification.
2. Check the dimensions and the shapes of the crown and the drive wheel if they are both in accordance with the roller, before the installation, be sure that all the accessories are fixed and will not cause any mechanical obstruction to the motor.
3. While defining the position of installation, the customer can choose to install the motor on the right or the left of the shutter according to the real condition.
4. If it is a round roller, make a slot at the end of the roller to allow the Limit switch unit work properly; if it is the other shape, then inset the motor directly into the roller.
5. After inserting the motor into the roller, use the screw to fix the crown to the roller to ensure the normal functioning of the motor.
6. During the installation, keep the motor and the roller horizontal, and the roller should be vertical to each side of the door or window.
7. Fix the mounting brackets on each side to the wall firmly with the screws.
8. Fix the mounting bracket above the window or the door.
9. Mounting scheme. Refer to Fig.2

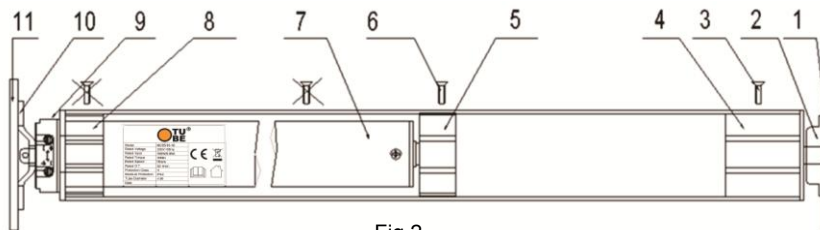


Fig.2

1. Wallboard    2. Underprop board    3. Bolt    4. Driven Shaft Bushing  
5. Drive Wheel    6. Bolt    7. Tubular Motor    8. Crown  
9. Install Base    10. Star-shape Board    11. Wallboard

10. After the installation, power on the motor, push the button rapidly to check if the up and down movements are good.
11. If the direction of the movement is not in accordance with the signs on the button box, switch the Connection of the brown and black wire.

#### VI. Electrical scheme: Refer to Fig.3

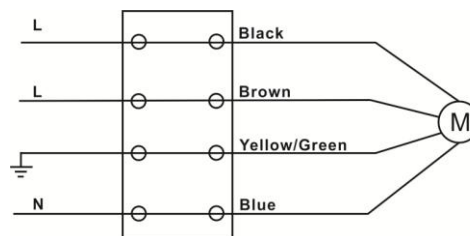


Fig.3

#### VII. Wire connection way: Refer to Fig.4

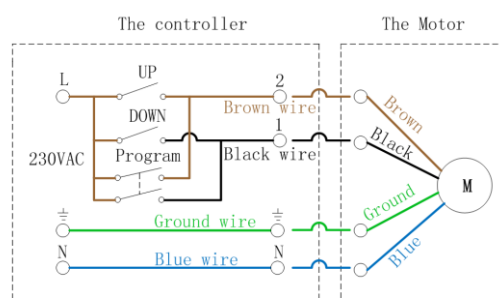


Fig.4

## VIII. Setting:

### 1. Manual mode

**Note:** \*Below setting should be done step by step.

\*Feedback = jog: is a short up and down movement of the motor.

\*Ensure the Roller shutter moves up while pressing the Up button on the setting switch, and move down while pressing the Down button on switch.

1.1 Connect the setup cable to the motor.

**Note:** Ensure the color of the wire connection keep consistent between the setting switch and motor.

1.2 Check the rotation direction, Pressing Up Or Down button, the roller shutter will move in the correct direction. If not, Exchange the wire connection between black and brown wires. Refer to Fig.5

**Note:**

\* Make sure the blind bottom doesn't touch the obstacle.

\* When the blind touch the down limit, the joggle will break the blind as the blind will go down further.

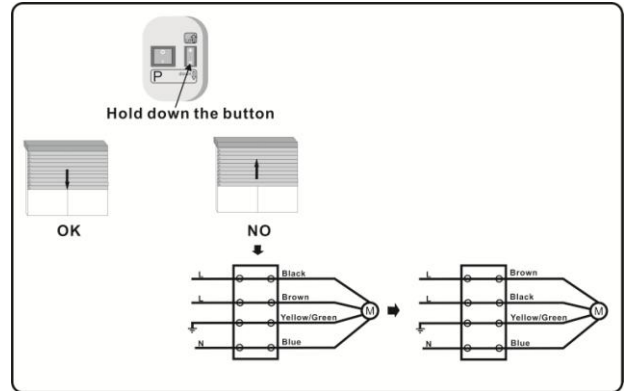


Fig.5

1.3 Initialize the motor by pressing the PROGRAM button 3s -> the motor joggle (one time in both direction). Refer to Fig.6

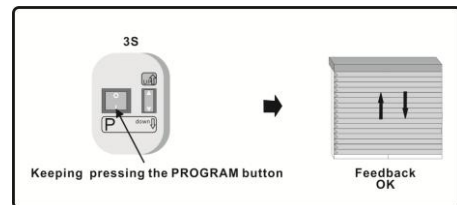


Fig.6

1.4 Move the shutter to the down limit by pressing the DOWN button, Save the bottom end limit by keeping pressing the PROGRAM button 3s UNTIL the motor joggle (one time in both direction). Refer to Fig.7

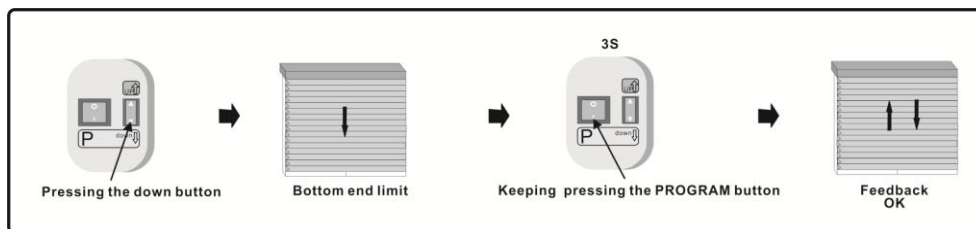


Fig.7

1.5 Move the shutter to the top end limit by pressing the UP button, Save the top end limit by keeping pressing the PROGRAM button 3s until the motor joggle twice (two times in both direction). Refer to Fig.8

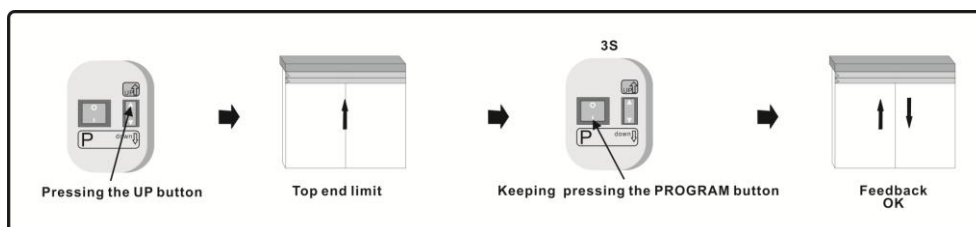


Fig.8

### 2. Automatic mode

**Note:** \*Below setting should be done step by step.

\*Feedback = jog: is a short up and down movement of the motor.

\*Ensure the Roller shutter moves up while pressing the Up button on the setting switch, and move down while pressing the Down button on switch.

2.1 Connect the setup cable to the motor.

**Note:** Ensure the color of the wire connection keep consistent between the setting switch and motor,

2.2 Check the rotation direction, Pressing Up Or Down button, the roller shutter will move in the correct direction. If not, Exchange the wire connection between black and brown wires. Refer to Fig.9

**Note:**

- \* **Make sure the blind bottom doesn't touch the obstacle.**
- \* **When the blind touch the down limit, the joggle will break the blind as the blind will go down further.**

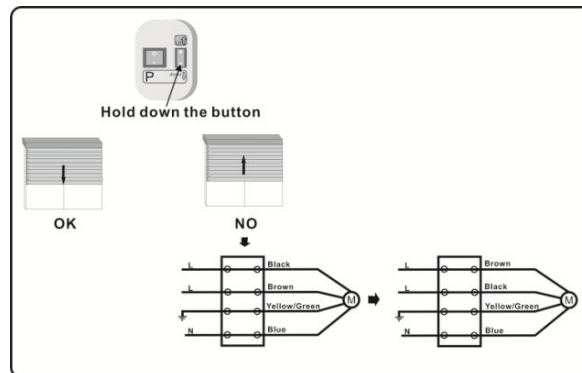


Fig.9

2.3 Initialize the motor by pressing the PROGRAM button 3s -> the motor joggle (one time in both direction). Refer to Fig.10

2.4 Move the shutter to the down limit by pressing the DOWN button until the motor stops. Refer to Fig.11

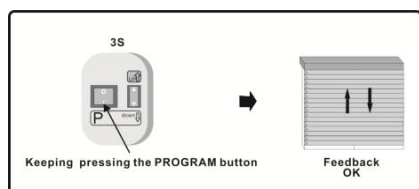


Fig.10

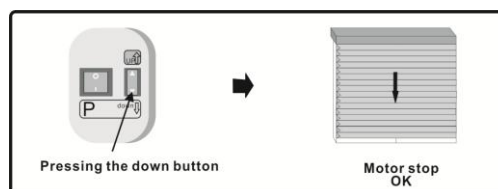


Fig.11

2.5 Move the shutter to the top end limit by pressing the UP button until the motor stops. Refer to Fig.12

2.6 Save the top end limit by keeping pressing the PROGRAM button 3s until the motor joggle twice (two times in both direction).

Refer to Fig.13

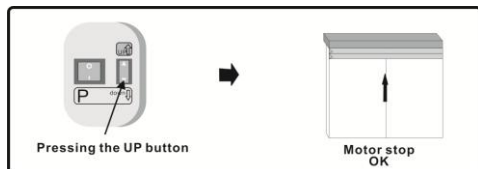


Fig.12

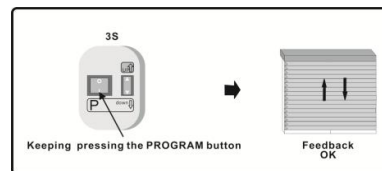


Fig.13

### 3.Deleting the setting Or reset

3.1 Keep Pressing the PROGRAM button 7S.

-> the motor will joggle two times in both direction (the First joggle at 3s and the second joggle at 7s). Refer to Fig.14

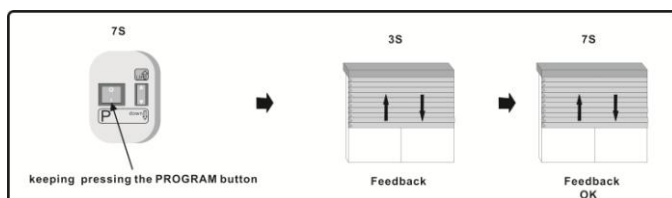


Fig.14

**Note:**

- \* **Pressing "PROGRAM" button is powering by black and brown both wires .**

### IX. Function:

1.Fronzen protection.

In winter time,bottom of shutter tend to get frozen to the frame. Motor is programmed to detect a frozen edge when user attempt to open the shutter and automatically stop and release the tension for protection of bottom edge. Refer to Fig.15

2.Stall detection and auto reverse.

Stall detection and reverse shutter to a certain position. Refer to Fig.16

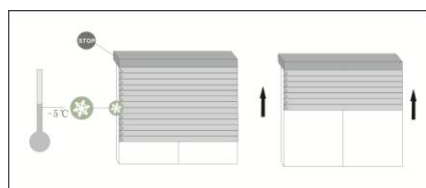


Fig.15

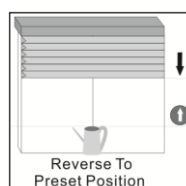


Fig.16

3. Cancel bottom 20cm orso function for 60mm wheel in order to rigid link lock (only for NP35 RS motor).

4. Cancel bottom 13cm orso function for 40mm wheel in order to rigid link lock (only for NP35 RS motor).

- \* **The obstacle detection function works ONLY after the limit setting finished.**

- \* **There are ONLY two ways to set the limit: Automatic and Manual.**