

****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. Safety instructions for drive installation

WARNING: Important safety instructions. Follow all instructions, since incorrect installation can lead to severe injury.

1. The drive Instructions enclosed with this document sets out the fields drives, the information necessary for mounting and securing the drive, connecting it to the power supply and setting the controls, and the maintenance operations relating to the drive itself.
2. Only use TUBE accessories (wheel, ring, mount, very low voltage power supply) and controls compatible with the drive. Ensure that the weight and dimension of the product to be motorised are compatible with the rated torque and rated operating time. These information are available from your TUBE contact.
3. Before installing the drive, remove any unnecessary cords and disable any equipment not needed for powered operation.
4. The actuating member of a biased-off switch is to be located within direct sight of the driven part but away from moving parts. It is to be installed at a minimum height of 1,5 m and not accessible to the public. Fixed controls shall be clearly visible after installation.
5. A suitable multi-pole switching device must be incorporated upstream in the fixed wiring in accordance with the wiring rules.
6. If the supply cord is damaged, it must be replaced by an identical cord. If the cord is not removable, return the drive to after sales department to avoid a hazard.
7. If the drive is fitted with a manual release, install its actuating member at a height less than 1,8 m.
8. The rated torque and operating time required must be calculated when selecting a motor for a blind, awning or shutter.
9. For drive for projecting awnings with an edge at a height <2m from the ground or any other access level, maintain a horizontal distance of at least 0.4 m between the fully unrolled driven part and any permanent object.

III. Safety instructions for drive use and maintenance

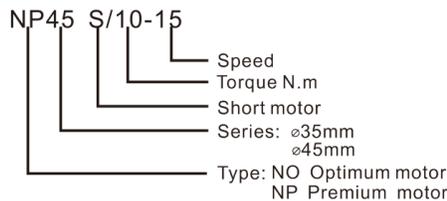
WARNING: Important safety instructions. It is important for the safety of persons to follow these instructions. Save these instructions.

WARNING: The drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.

1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
2. Do not allow children to play with fixed controls. Keep remote controls away from children.
3. Frequently examine the installation for imbalance and signs of wear or damage to cables and springs. Do not use if repair or adjustment is necessary.
4. Watch the motorised installation while it is moving and keep people away until the motorised installation is fully extended.
5. For drives fitted with a black H05-RRF cable for outdoor installations, the cord must only be replaced by an identical cord supplied by manufacturer of the drive.
6. For drives powered by a very low voltage removable power supply, only the power supply provided with the drive must be used.
7. For drives fitted with a manual release, operating conditions are given in the drive Instructions. LpA ≤70 dB(A).
8. Do not operate when maintenance, such as window cleaning, is being carried out in the vicinity;
9. When operating a biased-off switch, make sure that other persons are kept away.

III. Product reference instruction:

1. Product reference:



2. Product label eg.: NP45 S/10-15

Rated Voltage: AC230V

Frequency: 50Hz

Rated Power: 125 W

Rated Torque: 10N.m

Rated Speed: 15rpm

Rated Current: 0.54A

Rated operate time: 4min

Protection class: H

Moisture protection : IP44



: Only interior decoration



: Conformity European



: Read instruction before installation



: Don't throw in the life rubbish

IV. Structure characteristic:

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. In case of a black out, and no backup power neither, a motor with the manual function (Type M) can realize the open and close of the shutter with a manual handle.

4. Product Scheme: Fig.1

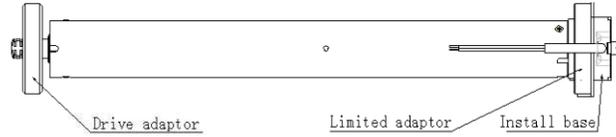


Fig.1

Fi

V. Installation:

1. Ensure the supplied power is in accordance with the specification.
2. Check the dimensions and the shapes of the limit adaptor and the drive adaptor 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 limit adaptor 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, Fig.2

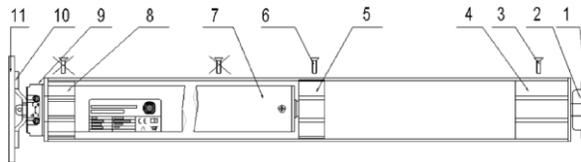


Fig.2

- | | | | | | |
|-----------------|-------------------|----------------|------------------------|-----------------|--------|
| 1. Wallboard | 2.Underprop board | 3.Bolt | 4.Driven Shaft Bushing | 5.Drive Adaptor | 6.Blot |
| 7.Tubular Motor | 8.Limited Adaptor | 9.Install Vase | 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: Fig.3

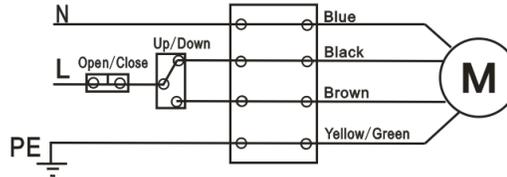


Fig.3

VII .Limit setting:

1. The customer can set limit positions according to their situations.
2. According to the motor's rotating direction and the adjusting instruction, Insert travel limit pole into its travel limit hole to adjust limit travel(end limit setting with drill is forbidden(Fig.4)); the direction of "+" will increase the shutter's travel; the direction of "-" will reduce the shutter's travel. (Fig.5)

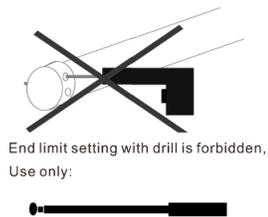


Fig.4

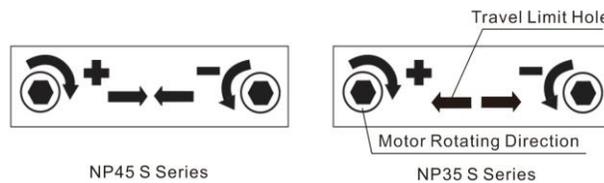


Fig 5

3. After setting the limits, start motor to make the shutter go up-and-down once, to see if the positions are well set.