



PERSIMASTER

Installation Instruction for TMW-D Series Tubular Motor

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- BAUART
GEPRÜFT
- TYPE
APPROVED



EN:60335-2-97



BRIEF INTRODUCTION

Welcome to use our tubular motor! Adapting the newest tubular motor technology, our motor has advantages of easy installation, low noise, small in size etc., its inside consists of tubular single-phase asynchronous motor, decelerating machine, end run etc. It can be equipped with different controlling systems and is widely used in motorized shade screens, retractable awnings, garage doors, rolling windows and doors, fire-proof screens and teaching-purposed projection screens etc.

1.NOTE

- a)Please read the instruction carefully before installation.
- b)Assure that all accessories have been fixed so that the motor works without any mechanical problem. The loading weight should be matched with the output power of the motor.
- c)Electrical connection must be done by professional technicians to operate in conformity with the rules.

2.MAIN TECHNICAL DATA

- a)Adapting condition: temperature of surroundings: $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$; Humidity must Not over 90%;
- b)Power supply: 230V/50HZ
- c)Type: See Diagram (1)
- d)Structure: See Diagram (2)

Diagram (1)

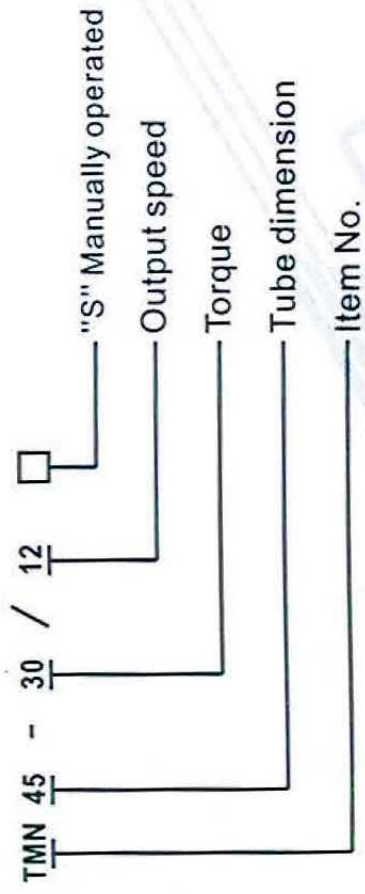
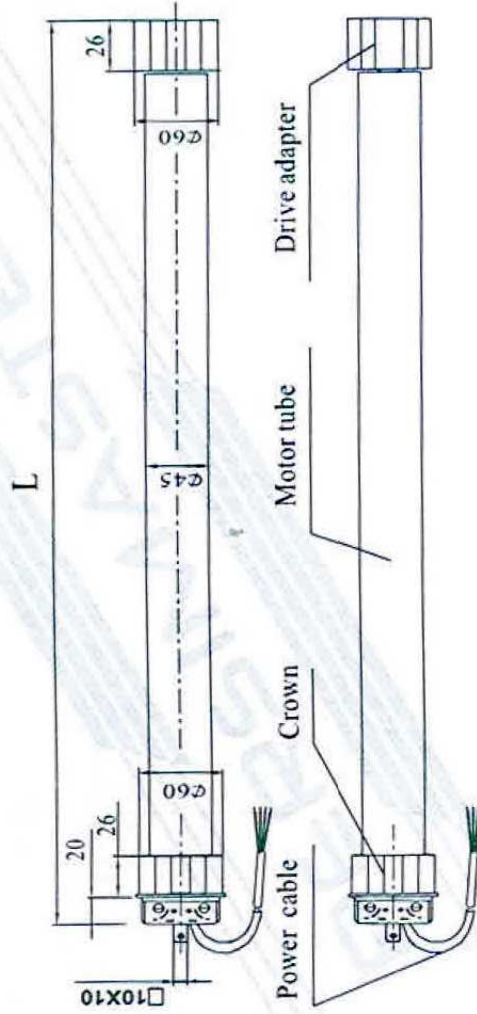


Diagram (2)



- TMW45-10/17D, TMW45-10/12D
- TMW45-20/12D, TMW45-15/17D
- TMW45-20/17D, TMW45-30/12D
- TMW45-40/12D, TMW45-25/17D

TMW45-30/17D, TMW45-35/17D, TMW45-50/12D

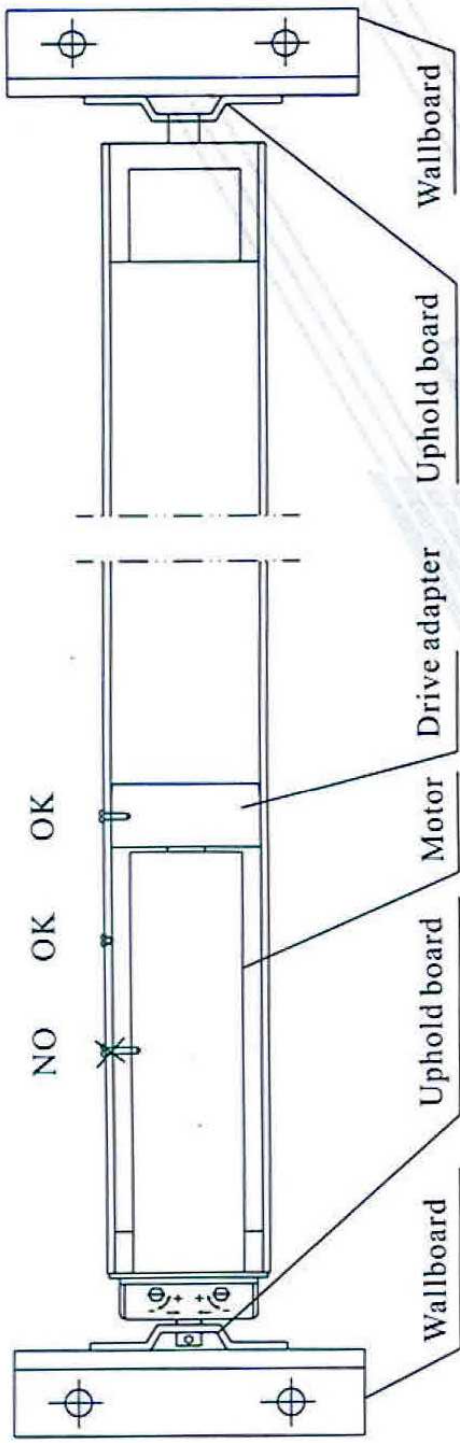
e). Technical Data

| Type | Current (A) | Power (W) | Speed (rpm) | Torque (Nm) | Working time (min) | Drive tube diameter (mm) | Lifting weight (Kg) |
|--------------|-------------|-----------|-------------|-------------|--------------------|--------------------------|---------------------|
| TMW45-10/12D | 0.65 | 150 | 12 | 10 | 4 | φ40 | 35 |
| TMW45-10/17D | 0.65 | 150 | 17 | 10 | 4 | φ60 | 25 |
| TMW45-20/17D | 0.9 | 230 | 17 | 20 | 4 | φ60 | 50 |
| TMW45-30/17D | 1.15 | 290 | 17 | 30 | 4 | φ60 | 75 |
| TMW45-35/17D | 1.15 | 290 | 17 | 35 | 4 | φ60 | 85 |
| TMW45-20/12D | 0.8 | 190 | 12 | 20 | 4 | φ60 | 50 |
| TMW45-30/12D | 0.9 | 230 | 12 | 30 | 4 | φ60 | 75 |
| TMW45-40/12D | 1.05 | 260 | 12 | 40 | 4 | φ60 | 90 |
| TMW45-50/12D | 1.15 | 290 | 12 | 50 | 4 | φ60 | 110 |

3. INSTALLATION INSTRUCTION

- a) Install the tubular motor either right side or left side as you like.
- b) Insert the motor in driving tube (space between diameter of driving axis and driving adaptor must not over 1mm), fix the end of driving adaptor by 4-ST3.5*15 screws; fix the crown and driving tube by 3-ST3.5*15 screws, frontal end of screw must not exceed the inner surface of crown, otherwise the inner teeth circle will be damaged.

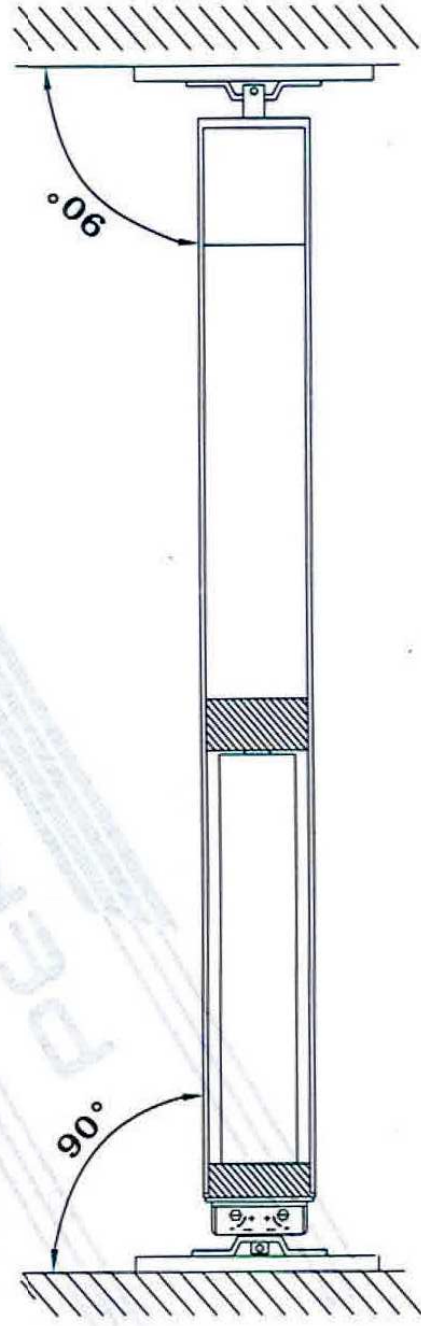
See Diagram(3)



c) Keep both ends of driving tube and motor be perfectly horizontal with the wall, keep both sides of shutter be orthogonal with driving tube. When install the motor. See

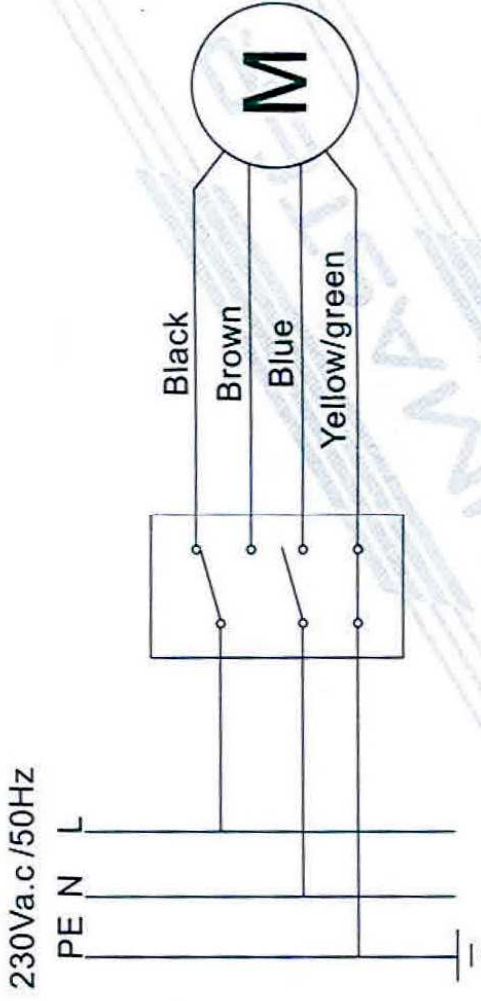
Diagram (4)

Diagram (4)



4. Instruction of electrical connection . See Diagram (5)

Diagram (5)



Clockwise driving adaptor will move if attach the blue and black wires to power supply, anti-clockwise driving adaptor will move if attach the blue wire and brown wire to power supply. (Direction identification: to see in an angle from end of motor limit adjustment to end of output driving adaptor, same methods applied to the following instruction)

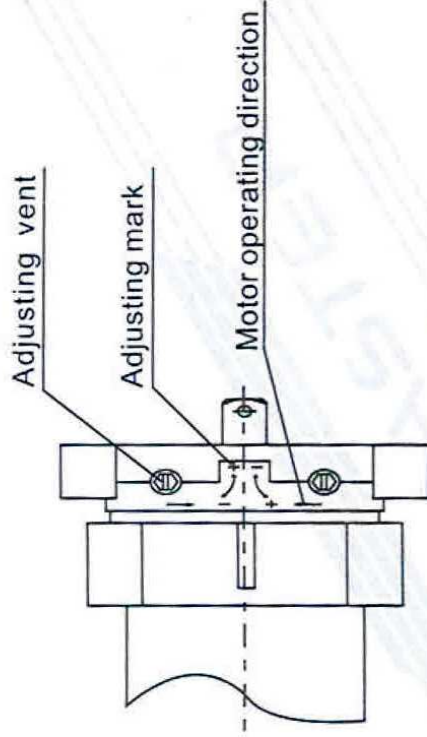
5. Limit adjustment

Hereinafter adjustment methods are suitable for tubular motors:

Confirm the adjustment vent you are adjusting according to the motor moving direction, “+” for increasing distance, “-” for decreasing distance.

Do again as step one. See diagram (6)

Diagram (6)



Caution: 1. Please use special adjusting stick while adjusting the end run;

2. After installation of tubular motor and before connecting the tube to shutter (or awning), operate motor in the down direction until it stops, install the shutters and operate the motor in up direction, adjust the end run as procedures showed above.

6、 Tips

1. In the inner part of tubular motor is winding thermostat, if motor doesn't work after several times of adjustment, please wait 30 minutes to restart.
2. Must be dependable to connect the ground after the tubular motor is installed.
3. Must not be over loaded and over frequently used so as not to decrease the lifetime of tubular motor.

4. Before the tubular motor rotates, please do not regulate the adjusting vent and crown manually.
5. Tubular motor at delivery, storage and work is not allowed to touch water directly.
7. Quality Guarantee
5 years.
8. Enclosures
 1. A manual.
 2. An adjusting stick.

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