

JM50 Rapid Roller Door Operator

User's Manual

WARNING!

ONLY QUALIFIED AND EXPERIENCED TECHNICIANS SHOULD ATTEMPT INSTALLATION OR SERVICE TO THIS UNIT, OTHERWISE, SERIOUS PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE MAY OCCUR.

PLEASE KEEP THESE INSTRUCTIONS FOR FURTHER REFERENCE.



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1. Safety instructions



It is important that you read all the following instruction:

- Read carefully this manual.
- The door operator should be installed and put into operation by qualified personnel. Otherwise, serious personal injury or property damage may occur.
- Open and close the door by hand, make sure that it moves smoothly.
- The door must be equipped with balance springs, otherwise the operator will be damaged. Before installation of the door operator, the door should be carefully checked for being kept well balance. The door must be in good working order.
- It is necessary to install the mechanical stops on guides, in order to avoid the exit of the door from the guides.
- The operator motor may only be disengaged with the door closed. This must be carried out by specialist personnel for maintenance purpose only.
- Keep remote controls or button switch away from children, to prevent the door operator from being activated involuntarily.
- Locate any fixed control: within sight of door but away from all moving parts of the door and at a height of more than 1.4m above the ground to avoid children reaching it.
- The operator should be switched off before repairing it or opening its cover.
- When opening or closing the door, do not attempt to walk or drive through the door.
- The door should only be operated when it can be observed to avoid accidents.
- It is forbidden to use the crank, when the electric operator runs, that can cause damage of the motor. Withdraw the crank before running the operator.

2. General description

The rapid rolling door can isolate, open quickly, provide an emergency exit, protects your environment from humidity, dust or other external factors and saves energy.

Main technical parameters:

Model	JM50
Power supply	3-phase 240V
Reduce ratio	1:30
Output rotate speed	95rpm
Rated output torque	70N.m
Motor rotation speed	2850rpm
Motor power	1.5Kw
Electromagnetic	DC99V
Output shaft aperture	∅ 25mm
Work duty	S2-15min/ S3-50%

Fig.3

- Make sure the door shaft which out of the door operator about 160mm.
- To install the bracket on the fix board, determine the location, mark and drill the 2 holes ($\varnothing 11$).
- Fix the bracket on the operator with 4 screws M8x16. Make sure that the bracket is plumb and lever. See Fig.2
- The bracket installation should meet the specifications as shown in figure 3
- Slot the door operator with bracket onto the door shaft (ensure correct position of the key) and screw onto the fix board with 2 bolts M10x25 and 2 nuts M10.
- Slot the encoder onto the door shaft and push it close to the door operator and screw onto the door operator with screw M8x16.
- Tight the screw on the encoder, make sure the encoder rotates with the shaft simultaneously.

4. Wiring

Before carry out any wiring work, it is essential to disconnect the control unit from the mains supply.

Motor

Open the wiring terminal block cover, connect motor as shown in Fig.4.

Factory preset: Δ Wiring (PLC Input single-phase 220V, Output three-phase 220V)

Y Wiring (PLC Input three-phase 380V, Output three-phase 380V)

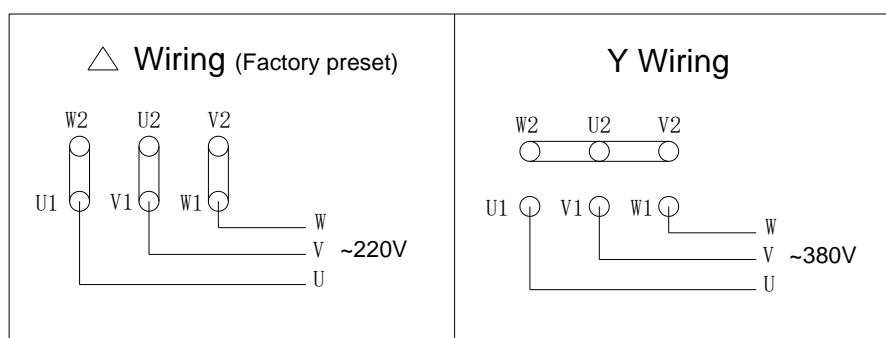


Fig.4

Electromagnet brake

Connect power wires 220V (terminal block D, N1 of control box) to yellow wires of rectifier. Connect two wires of electromagnet to black wires.

The non-excitation brake is adjust be

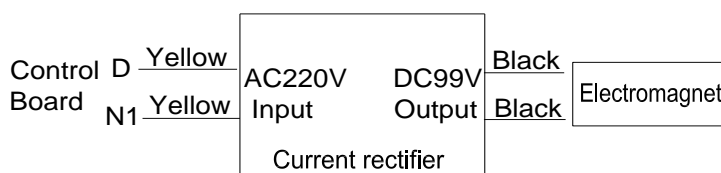


Fig.5

Manual operation

Crank

The operator is equipped with a crank, which is used for emergency lifting/lowering of the door in case of power cut. Clockwise to open, anticlockwise to close.

**Warning**

- Use the crank only in emergency.
- It is forbidden to use the crank, when the electric operator runs.

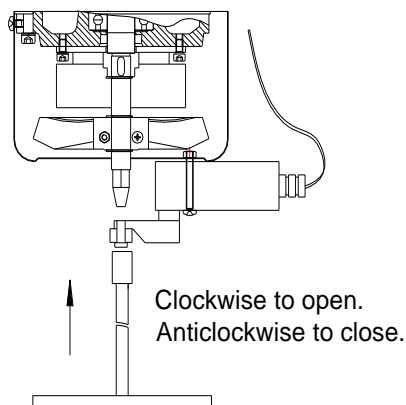


Fig.6

5. Packing list

After receiving the product, you should make an unpack-inspection, in which you should check whether the product was damaged. If you have any problem please contact our sales agent. You should find the following items in our standard packing:

No.	Item	Quantity
1	Door operator	1
2	Bracket	1
3	Screw M8X16 and washer	4
4	Bolt M10X25	2
5	Nut M10	2
6	Key 8x80	1
7	Screw M5x12	1
8	Nut M5	1
9	Crank	1
10	Current rectifier	1
11	User's manual	1