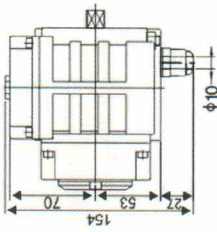
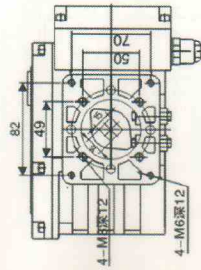
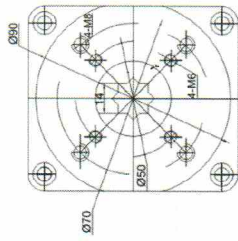


Electric actuator

operation instruction

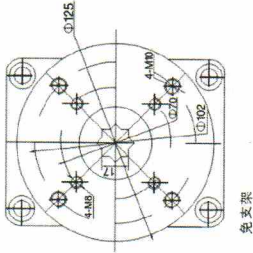
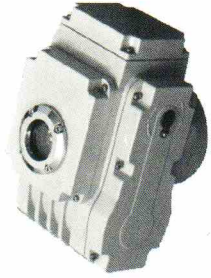


Type 16/20

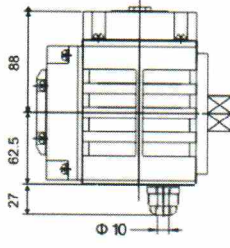
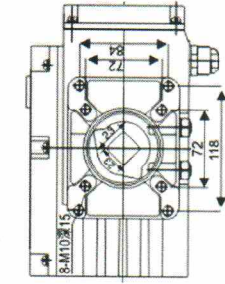


Voltage	DC24V	AC110V	AC220V	AC380V
Motorpower	25W	30W	30W	30W
Output torque	100 N.M	160 N.M / 200 N.M		
Rotation angle	0°-90°±5°			
Installation position	Installation at any angle			
The protection grades	IP67			
Ambient service temperature	-30°C ~ +60°C			

Type 25/50/60

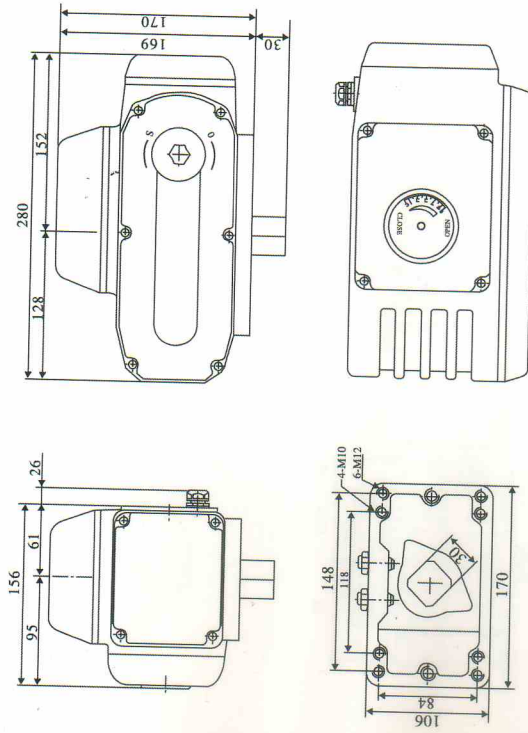


免支架



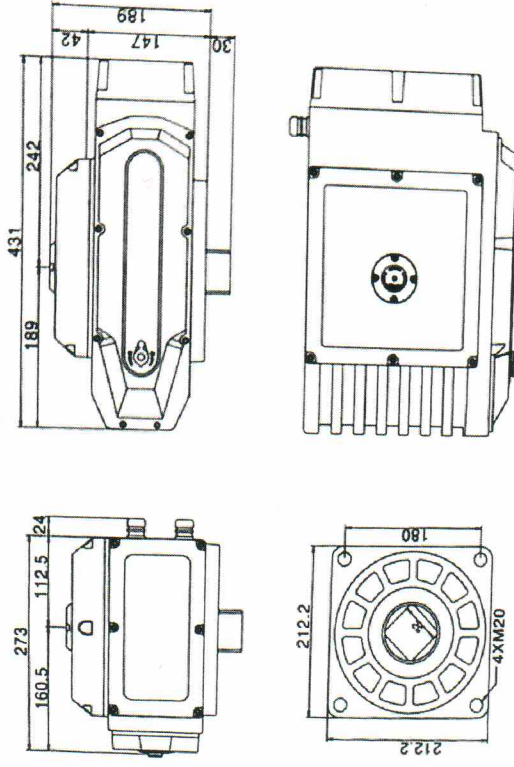
Voltage	DC24V	AC110V	AC220V	AC380V
Motorpower	50W	70W	90W	100W
Output torque	250 N.M	250 N.M / 500 N.M / 600 N.M		
Rotation angle	0°-90°±5°			
Installation position	Installation at any angle			
The protection grades	IP67			
Ambient service temperature	-30°C ~ +60°C			

Type 100/200



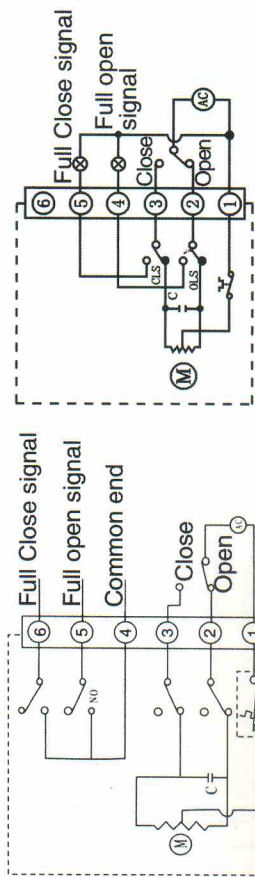
Voltage	DC24V	AC110V	AC220V	AC380V
Motorpower	100W	110W	120W	100W
Output torque	1000N.M	1000N.M / 2000N.M		
Rotation angle	0°-90°±5°			
Installation position	Installation at any angle			
The protection grades	IP67			
Ambient service temperature	-30°C ~ +60°C			

Type 400/600

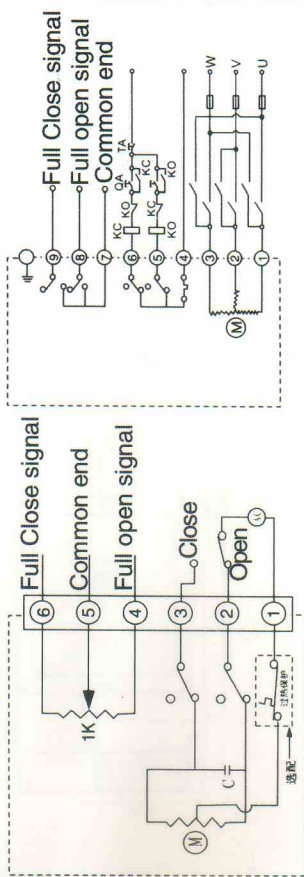


Voltage	AC220V	AC380V
Motorpower	200W	
Output torque	4000N.M / 6000N.M	
Rotation angle	0°-90°±5°	
Installation position	Installation at any angle	
The protection grades	IP67	
Ambient service temperature	-30°C ~ +60°C	

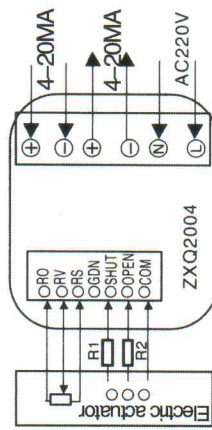
Four、Circuit diagram



Passive contact type (s)



Opening Signal Output Type



Intelligent Adjustment Type

Special warning: cannot be two or more electric actuator power line in parallel, in other words, cannot use the same contact to control more than one electric actuator, otherwise will cause out of control and motor overheating!

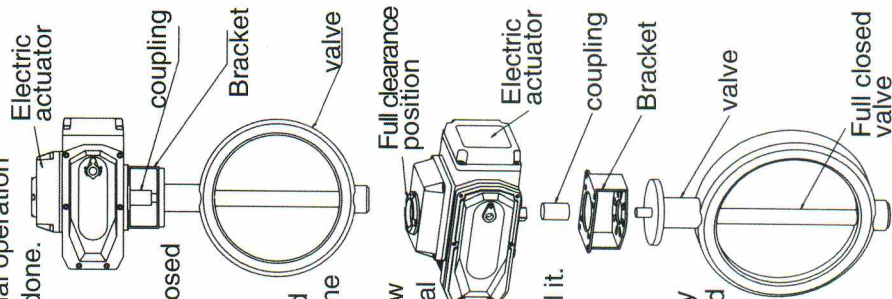
Five、installation

- Installation sites can be indoor, outdoor and underground.
- Installation precautions:

1. This product is a non-explosion-proof product, so it can not be installed in the room with explosive gases.
2. When installing in the occasion of water mist splashing, Please add protective cover, so as not to cause water seepage and damage the machine.
3. Indoor installation should also reserve the space required for manual operation.
4. Install protective shield outdoors to reduce direct sunlight and avoid accelerated aging of components in the machine.
5. Make sure that the rubber blockage at the manual operation port is tightly covered to ensure that everything is done.

Six、Connecting Valves

1. Turn the valve manually and turn it to the fully closed position after confirming that the valve is normal.
2. Fix the bracket gently on the valve with a screw.
3. Put the coupling on the valve stem.
4. After the state of the electric actuator is determined to be fully closed, the output shaft is inserted into the coupling fixed to the valve stem.
5. Fix the electric actuator on the bracket with screw (because of the inevitable clearance of the mechanical device, occasionally the screw hole position is uneven, we can solve this kind of problem only by slightly rotating the electric actuator with manual rocker).
6. Tighten the screw of each component and install it.



Seven、Wiring Connection

06-011 cable is recommended to ensure the safety and reliability of the connection. The cable is locked through the lock cover and the lock, and the wire head is fixed on the terminal according to the circuit diagram, then the lock cover is locked to fix the cable. If the cable is not suitable for the inner diameter of the cable joint, water may enter the electric actuator from the waterproof cable joint and damage all internal parts.

- Waterproof measures should be taken when using cable pipes. As shown in the figure below, the installation position of the valve electric actuator should be above the cable tube to ensure that water droplets do not flow into the cable Electric actuator.

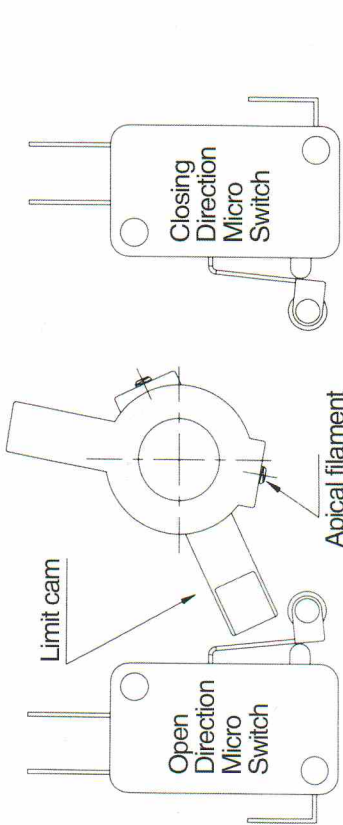
- In principle, shielding lines should be used in signal lines, and power should be used. Wiring is separated.

Eight、Turn on electricity

- Please determine the input voltage according to the voltage shown in the product nameplate or circuit diagram.
- The voltage of power supply should meet the following requirements:

AC220V±10%	50/60Hz
AC380V±10%	50/60Hz
AC110V±10%	50/60Hz
- The fuse or short circuit switch must be used, and its capacity is suitable between 2 and 3 times of the normal working current of the electric actuator.

Layout of 25/50/60/100/200/400/600 Limited Cam and Micro Switch



2. Adjustment of mechanical limit

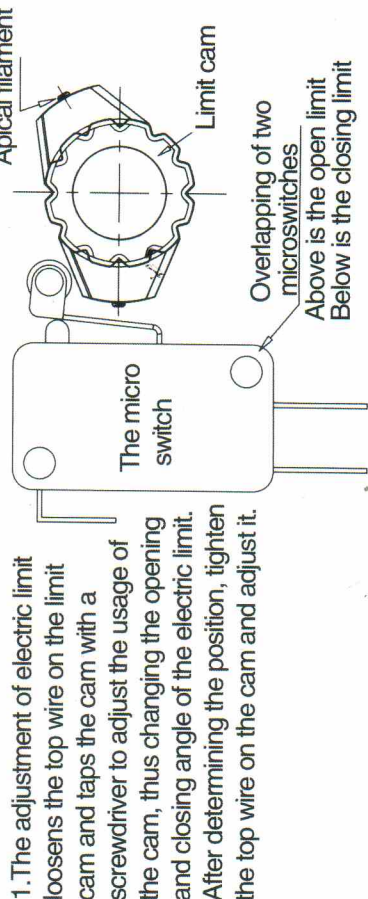
- Drive the valve to the fully closed position with the handle and make the fully closed position limit switch operate (click when the limit switch operates)
- Release the locking nut on the right side, turn the top wire clockwise with the inner hexagonal wrench and adjust the top wire to exactly match the mechanical limit block. However, the counter-clockwise direction will adjust the half-circle of the top wire, so that the mechanical limit tags behind the electrical limit about 2.5 degrees at the fully closed position, and lock the locking nut.
- The same method is used to adjust the left full open mechanical limit.

Special tips: If the mechanical limit is advanced or overlapped with the electrical limit, it will cause the motor of the electric actuator to stop up, heat and even cause the motor to burn down!

Ten、Electric commissioning

- Connect the line correctly according to the circuit control chart pasted in the cover of the junction box. After confirmation, turn on the power supply.
- The switch is switched on to CLOSE, and the electric actuator drives the valve to close clockwise until the switch closes and the electric actuator stops.
- The switch is switched on to OPEN, and the electric actuator drives the valve to run in the full open direction (counter-clockwise) until the open limit switch operates and the electric actuator stops.
- After the above adjustment, if the indicator status does not match the actual position of the valve, the central fixing screw of the opening meter plate can be loosened and the position of the opening meter can be adjusted again to make the valve indication correct.

Nine、Adjustment of switch angle



- The adjustment of electric limit loosens the top wire on the limit cam and taps the cam with a screwdriver to adjust the usage of the cam, thus changing the opening and closing angle of the electric limit. After determining the position, tighten the top wire on the cam and adjust it.

Layout of 5/16/20 Limited Cam and Micro Switch