

Dear Client,

Thank you for Purchasing our XC-3kVA Control Cabinet.
Please read the manual in detail prior to first use, which will help you use the equipment skillfully.



Our aim is to improve and perfect the company's products continually, so there may be slight differences between your purchase equipment and its instruction manual. You can find the changes in the appendix. Sorry for the inconvenience. If you have further questions, welcome to contact with our service department.



The input/output terminals and the test column may bring voltage, when you plug/draw the test wire or power outlet, they will cause electric spark. PLEASE

CAUTION RISK OF ELECTRICAL SHOCK!

Company Address:

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- ◆ Sales Hotline: 86-27- 87492243
- ◆ After Service Hotline: 86-27- 87459656
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◆ **SERIOUS COMMITMENT**

All products of our company carry one year limited warranty from the date of shipment. If any such product proves defective during this warranty period we will maintain it for free. Meanwhile we implement lifetime service. Except otherwise agreed by contract.

◆ **SAFETY REQUIREMENTS**

Please read the following safety precautions carefully to avoid body injury and prevent the product or other relevant subassembly to damage. In order to avoid possible danger, this product can only be used within the prescribed scope.

Only qualified technician can carry out maintenance or repair work.

--To avoid fire and personal injury:

Use Proper Power Cord

Only use the power wire supplied by the product or meet the specification of this produce.

Connect and Disconnect Correctly

When the test wire is connected to the live terminal, please do not connect or disconnect the test wire.

Grounding

The product is grounded through the power wire; besides, the ground pole of the shell must be grounded. To prevent electric

shock, the grounding conductor must be connected to the ground.

Make sure the product has been grounded correctly before connecting with the input/output port.

Pay Attention to the Ratings of All Terminals

To prevent the fire hazard or electric shock, please be care of all ratings and labels/marks of this product. Before connecting, please read the instruction manual to acquire information about the ratings.

Do Not Operate without Covers

Do not operate this product when covers or panels removed.

Use Proper Fuse

Only use the fuse with type and rating specified for the product.

Avoid Touching Bare Circuit and Charged Metal

Do not touch the bare connection points and parts of energized equipment.

Do Not Operate with Suspicious Failures

If you encounter operating failure, do not continue. Please contact with our maintenance staff.

Do Not Operate in Wet/Damp Conditions.

Do Not Operate in Explosive Atmospheres.

Ensure Product Surfaces Clean and Dry.

— **Security Terms**

Warning: indicates that death or severe personal injury may result if proper precautions are not taken

Caution: indicates that property damage may result if proper precautions are not taken.

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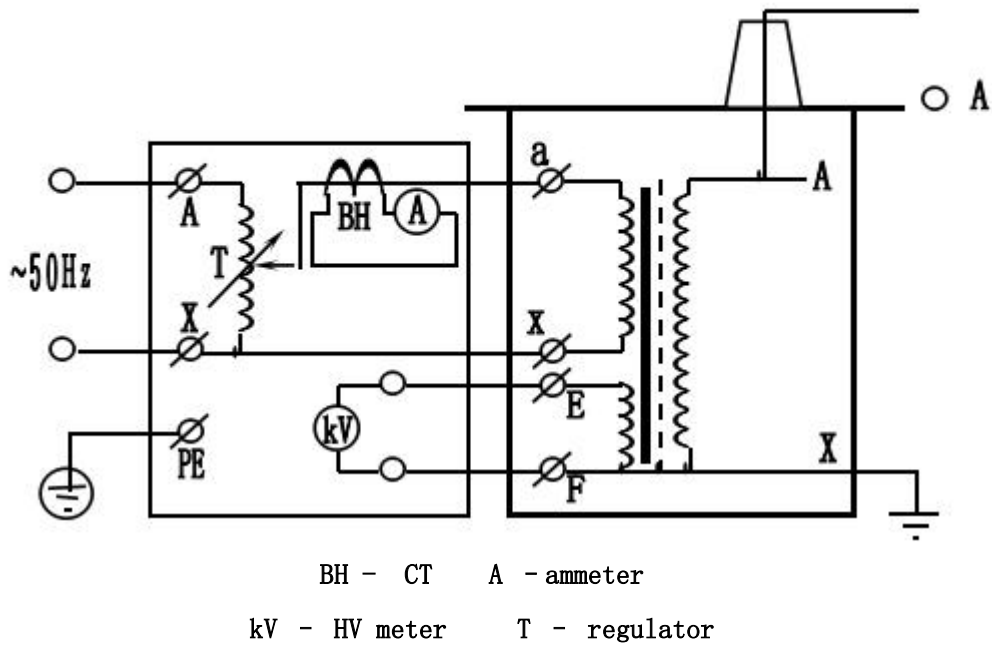
I. Overview

This series of products are designed and manufactured according to the unique usage range of high voltage test transformer. Its functions are as follows:

- A. Closing sound and light alarm;
- B. Timing sound and light alarm;
- C. Electronic low voltage current protection (box type);
- D. Direct reading of high voltage ;
- E. Voltage withstand test time is set freely (digital display);
- F. Movable structure (desktop)

II. Operating procedure

This series is composed of contact voltage regulator (more than 50KA is electric column voltage regulator) and its control, protection, measurement and signal circuit. It adjusts the voltage regulator (i.e. the input voltage of the test transformer) by connecting 220V or 380V power frequency power supply to obtain the required test high voltage voltage value. Its working principle is shown in Fig. 1:



III. Product parameters

The capacity of the operating cabinet is nominated as the capacity of the voltage regulator. If it works with the test transformer (working system within 30 minutes in short time), it can be selected according to the provisions of the power industry standard of the People's Republic of China "DL474.4-92": $P_0=0.75P$. P_0 -test transformer capacity and P -regulator capacity. If it is used for batch test of electrical equipment factory products, the capacity of voltage regulator should be equal to the capacity of test transformer, that is, $P_0=P$.

IV. Product series

Table 1

Model	Capacity (kVA)	Power			Output		Size (mm)	Weight (kg)
		Phase	Voltage (V)	Freq (Hz)	Voltage (V)	Current (A)		
XC-3	3	1	220	50	0-250	13.6	300*400*220	32
XC-5	5	1	220	50	0-250	22.7	300*400*230	35
TC-10	10	1	220	50	0-250	40	410*540*680	50
TC-15	15	1	380	50	430	34.8	410*540*680	55
TC-20	20	2	380	50	430	46.5	410*540*680	65
TC-30	30	2	380	50	430	78.9	470*630*1100	65
TC-50	50	2	380	50	430	131.5	1020*650*1600	

V. Operating procedure

Before operation, the maximum working current should be calculated and the current protector should be adjusted according to the capacity and voltage level of different subjects. The test wiring should refer to Figure 1 of this specification or the related connection schematic diagram of the test transformer, and the grounding end should be well grounded (the following voltage withstand test for example).

1. Connect the power supply (cabinet type is socket power supply, console type is connection pole power supply), rotate the

regulator handle to zero position, close the zero switch, zero indicator light (yellow light) is on (also known as zero output state indicator of regulator);

2. Press the start button (green), the contactor is sucked, the voltage regulator is electrified, and the working indicator (red light) is on, and the alarm sound (alarm sound can stop only after the voltage regulator leaves zero position);
3. Rotate the regulator handle clockwise, slowly and evenly, and keep a close watch on the meter reading. When the required high voltage value is reached, stop rotating and the timing button (yellow) is pressed in time. At this time, the digital display time relay clockwise display time (s, seconds) will be displayed. When the set time is reached, the operating cabinet (console) will send out sound and light alarm and adjust it in time. The handle rotates in the opposite direction until the regulator returns to zero, and the timer button is released.
4. During boost or withstand voltage test, if there is over current such as short circuit, flash-over or breakdown, the current relay protection trips and the voltage regulator automatically turns off, indicating that the tested product is not qualified. At this time, the voltage regulator should be returned to zero, the power supply should be cut off, and the tested product should be checked.

VI. Use and Maintenance

1. During acceptance, check whether the main control circuit wiring is loose and the voltage regulator brush is in good contact.
2. When not in use for a long time, 500V Megohmmeter is used to measure insulation resistance before use, and its resistance value is not less than 0.5M.
3. The power supply voltage shall be in accordance with the input voltage value on the nameplate of the cabinet.
4. This cabinet is equipped with over-current protection, and the factory has been adjusted to 80% of the rated current. When used for low load, it should be reset according to the rated capacity current of the tested product.
5. After use, the cover of the cabinet should be closed to keep the inside of the cabinet clean.

VII. Conditions of use

1. Temperature :0—40℃
2. Altitude: <1000m
3. Relative humidity: <85%

