ZXMN-B Circuit Breaker Simulator

Contents

I Product Overview

ZXMN-B analog circuit breaker device is mainly used for the whole set test of power system power failure protection device or complete relay protection screen, which can truly simulate the trip time of circuit breaker device. The tripping and closing of the high voltage circuit breaker were simulated during the entire test to avoid the adverse effects caused by the repeated splitting of the circuit breaker due to the repeated whole set of tests.

II Instrument Principle

The instrument adopts all-digital circuit, and the time is set by digital dialing. It can realize the functions of analog circuit breaker tripping time setting, three-phase/phase-phase operation selection, input signal logic control, etc., thus simulating the circuit breaker's jumping and closing action.

III Technical Indicators

1. Power supply: AC200V±10%
2. Tripping operation is the power supply voltage: DC220V, DC110V
3. Tripping impedance selection: 440Ω, 220Ω, 110Ω
4. Closing time selection: 20-200ms
5. Trip time selection: 20-100ms
6. Analog circuit breaker normally closed / normally open contact capacity is AC220V/5A.

IV Method of Use

1. The power supply voltage of this instrument is DC220V and DC110V. The voltage must be the same as the input voltage before the test.
2. The instrument can simulate phase-separated operation circuit breakers, and can also simulate three-phase operation circuit breakers. The tripping impedance is selected to be 440 ohms, 220 ohms, and 110 ohms. When simulating phase-separated circuit breakers, they are hopped. The gate input terminals are A, A, B, B, C, and C. When the three-phase operation breaker is simulated, the trip input terminals are three-hop and three-in-one. In addition, there are manual closing and manual tripping buttons on the panel, and there are trip signal lights, which are three red signals of A, B, and C, and three green lights of A, B, and C. When simulating the three-phase operation circuit breaker, the A, B, and C three-phase signal lights are simultaneously extinguished.
3. In the analog loop, relays A, B, and C are each outputted with a set of switching contacts. The contacts that open or close the contacts are completely isolated from the operating power supply, and can be relayed with the microcomputer. Protect the test equipment for cooperation.
4. The instrument can simulate the trip and closing time, the time is set to the dial switch setting, and the precision is high. The trip time setting range is 20-200ms, and the closing time setting range is 20-100ms.

V Matters Needing Attention

Check if the power supply voltage is within the range of the analog switch

operating voltage;

Long-term storage or long-distance transportation should be taken lightly, pay attention to moisture.

VI Pcking List

1. Host 1
2. Test wire 1
3. Power cord 1
4. Manual 1
5. Certificate / Warranty Card 1