
GDKC-12A High Voltage Circuit Breaker Tester



General Information

High voltage circuit breaker is one of the most important control equipment in the power system. GDKC-12A is used to test the dynamic characteristics of high voltage circuit breaker. It is easy to operate, with high accuracy.

Features

- Time: the open/close time, in phase synchronization, phase-to-phase synchronization of 12 contacts.
- Reclose: close-open, open-close, open-close-open time for each contact.
- Bounce: Close bounce time, times, process and waveform of each contacts.
- Velocity: Velocity at contact touch, maximum speed, time-range characteristic curve.
- Travel: Total travel, open travel, over travel, travel overshoot, bounce amplitude.
- Current: open/close current, current waveform diagram of the open/close coil.
- Operation voltage: built-in DC0-300V/20A digital, adjustable power source of breaker, automatically complete LV action test of circuit breaker and measure action voltage value of circuit breaker.
- It is suitable to test the mechanism parameters of all types of SF6 circuit breaker, GIS combination electric equipment, vacuum circuit breaker, oil circuit breaker.
- Strong anti-interfere ability. It also can easily test and accurately measure even interbus is live in 500kV substation.
- With universal velocity sensor(optional), linear velocity sensor, rotary sensor, easy

to install.

- Only one time action to obtain all data and corresponding waveform of breaker mechanism test.
- Storage test data, built-in real-time clock, which is convenient to save test date and time.
- LCD screen display, with contrast adjustment and power-off memory.
- Built-in printer, to get all data and diagram at any time quickly.

Specifications

- Usage Environment
Input Power: 220V \pm 10%, 50Hz \pm 10% Air Pressure: 86-106kpa
Temperature: -10-40 $^{\circ}$ C Humidity: \leq 80%RH
- Safety Performance
Insulation Resistance $>2M\Omega$
Dielectric Strength: Shell can withstand power frequency voltage 1.5kV at 1 minute without flashover and arcing.

- The Basic Parameters

a. Time: Range 25000.0ms resolution 0.01ms
Error 0.01ms \pm 2digit within 250ms
0.1ms \pm 2digit within 2500ms
1ms \pm 2 digit within 25000ms

b. Velocity: Range 20.00m/s resolution 0.01m/s
Error \pm 0.1m/s \pm 1digit within 0-2m/s
 \pm 0.2m/s \pm 1digit above 2m/s

c. Travel:

Types	Range	Resolution	Error
Vacuum breaker	50.0mm	0.1mm	0.1±1mm
SF6 circuit breaker	300.0mm	1mm	
Oil circuit breaker	600.0mm		

d. Current: range 20.00A resolution 0.01A

e. Output power: DC0-300V digital adjustable/20A(instantaneous working), resolution

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f. Dimensions: 360mm (L)* 280mm (W)* 300mm (H)

g. Weight: 10kg