



CBA.303ST

Product Overview

- CBA.303ST High Voltage Switch Mechanical Properties Tester is special instrument for power system GIS mechanical properties measuring.
- High-voltage switch mechanical characteristic tester can accurately measure the mechanical dynamic characteristic parameters of high-voltage circuit breakers of various voltage levels such as low oil, high oil, vacuum, sulfur hexafluoride, etc., and the measurement data is stable, Strong anti-interference, can perform in 500KV and below power stations, convenient wiring, simple operation, it is the most convenient tool for high-voltage switch maintenance testing.
- The switch mechanical tester uses advanced technology for the core to process the test data. With high intelligence, lots of functions, accurate test data, strong anti-jamming, easy operation, small & light weight.



Key Features:

- The instrument automatically recognizes the opening and closing status of the fracture to prevent mis operation.
- Independent 12 fracture ports can detect and prompt the connection status of the fracture ports, which is convenient for users to check the wiring.
- 100 sets of test results can be stored in the machine.
- Large-screen LCD (320×240) LCD display, advanced gray screen, no reflection or black screen in the sun, graphic menu operation prompts, humanized menu interface, easy to operate.
- The instrument has a powerful graphic analysis function, which realizes the same screen display of waveform and measurement processing data, making the test process more intuitive.
- There is a delay protection function inside the machine, and the coil voltage can be automatically cut off after the circuit breaker is activated, which well protects the circuit breaker and testing equipment. Independent and special opening and closing control unit, namely opening or closing control unit, can be used for closing or opening test.
- If one of the control loops is broken, it will not affect the use.
- This instrument can carry out electric and manual opening and closing tests.
- It can conduct high and low voltage experiments and automatically find the lowest opening or closing voltage.
- The reclosing test can be used to measure parameters such as closing, opening and closing.
- Parameter measurement of vacuum contactor (single coil).
- Complete the circuit breaker aging test (life test) automatically.

Time measurement	12 channel switching (closing) time
	Different periods in the opening (closing) phase
	The difference between the opening (closing) phases
	Closing (opening) Bounce time (number of bounces)
	Internal trigger test range: 0.01ms ~ 10000ms, resolution: 0.01ms
	External trigger test range: 0.01ms ~ 20000ms, Resolution within 999ms: 0.01ms,1000-9999ms resolution: 0.1ms,10000ms resolution: 1ms.
	Accuracy within 200ms: 0.05%±1 word
Speed measurement	just split (just closed) speed
	Average speed for a specified period of time (travel or Angle)
Speed range	1mm sensor 0.01 ~ 25.00m/s
	0.1mm sensor 0.001 ~ 2.50m/s
Stroke measurement	moving contact stroke (stroke) Contact stroke (open distance) Over travel Overstroke stroke or rebound stroke
Measurement range	linear sensor: 50mm, measurement range: 0-50mm, resolution :0.1mm. Optional 100-1000mm linear sensor of arbitrary length.
	Rotary sensor: 345° rotary sensor, measurement range: 0-1000mm, resolution: 0.1 rotary sensor
Current resistance range	maximum current 30A, resolution: 0.01A, resistance 1000Ω, resolution: 0.01Ω
Instrument power supply	AC 220V ± 10%; 50HZ plus or minus 10% (customized)
Dc power output	DC20 ~ 270V continuously adjustable, DC220V≤ 20A(short time). Power: 4400W
External trigger voltage	AC/DC10-300V, current ≤120A
Measuring range of disconnecting switch or energy storage circuit breaker in place	(1) Voltage output: DC20 ~ 270V (adjustable) (2) The power output time: 0.01-10 seconds (can be set); (3) The maximum acquisition time of fracture signal is 10 seconds; (4) Can be measured fracture closing, switching time, three-phase different period, bounce time and times
Main host volume	360×260×170mm
Operating environment	-20 ° C to +50 ° C
Relative humidity	≤90%

No.	Product Name	Qty./unit.
1	Analyzer	1set
2	Large universal bracket	1
3	linear sensor	1
4	rotation sensor	1
5	printer paper	2 roll
6	Fuse	2
7	power cable	1
8	Ground wire	1
9	Closing and opening control line (5.5 meters green, black, red)	1set
10	Energy storage locking power cord (5.5 meters black, red)	1set
11	short wire	1
12	Fracture line (6 meters yellow, green, red, black)	1set
13	Extension cord (5 meters yellow, green, red, black)	1set
14	Aviation plugs adapter cable (black 3. red 2. green 1)	1
15	Speed sensor adapter	6
16	Extension cord	1
17	screwdriver	