

RDGC-8A Digital Circuit Breaker Analyzer

With the development of society, people have higher and higher requirements for the safety and reliability of power consumption. Digital Circuit Breaker Analyzer have the dual tasks of control and protection in the power system. The performance of the power circuit is directly related to the safe operation of the



power system. The mechanical characteristic parameter is one of the important parameters for judging the performance of the circuit breaker. The Digital Circuit Breaker Analyzer is a special instrument developed by the company to meet the needs of various high-voltage switch operating characteristics tests. It can accurately measure mechanical dynamic characteristics parameters of low-oil, multi-oil, vacuum, SF6 and other high-voltage circuit breakers of various voltage levels.



Product Features

1. Performance
 - 1) Time: 12 inherent in the fracture points, closing time, with the same period, and white the same period.
 - 2) Reclosing: each fracture together - sub, sub - together, sub - Hopewell - sub-process time: one point, a time is the time of the two-in-gold short time, current time value.
 - 3) Bounce: closing bounce time, bounce times, bounce process, bounce waveform, opening bounce amplitude of each fracture.
 - 4) Speed: just now, just closing speed, maximum speed, time - stroke characteristic curve.
 - 5) Stroke: total trip, open distance, over-travel, the overshoot travel, rebound amplitude.
 - 6) Current: points, closing coil points, closing the current value, the current waveform diagram.
 - 7) Operating Voltage: DC30 ~ 270V/30A digital machine adjustable breaker operation

power supply, to automatically complete low voltage operation test of the breaker, measuring the value of the operating voltage of the circuit breaker.


2. Characteristics

- 1) It is suitable for all types of metal contact SF6 switch, GIS combined apparatus, vacuum switch, oil switch, post switch and contactor produced at home and abroad.
- 2) Sensors: acceleration speed sensor, rotation speed sensor, linear travel sensor and contact sensor, the installation is very convenient and simple.
- 3) Trigger mode: internal trigger, external trigger, sensor trigger and manual trigger. Manual triggering can test the characteristics of the circuit breaker (without opening and closing coil), such as the manual opening and closing switch on the pole. Sensor trigger is mainly used in switch factory and other places with special requirements.
- 4) Energy storage output: the instrument can provide DC adjustable energy storage power supply, which can control the motor energy storage at any time without reversing the line after connecting the line at one time.
- 5) Large screen, transparent, wide temperature backlight LCD, electronic contrast adjustment. Perfect menu prompt operation, switch action once, display all data and waveform map.
- 6) The host can store 1000 groups of on-site opening and closing test results, and the real-time clock in the host is convenient to save the test date and time; the USB interface is used for data transfer and program upgrade.
- 7) The instrument has powerful data analysis function and can effectively analyze various index parameters of circuit breaker mechanical characteristics. Built in quick micro printer to print all data and atlas.



Product Specifications and Technical Parameters

1. Technical Parameters

Picture		
Model	RDGC-8A	
No.	Parameters	Value
1	Using Environments	Input Power: 220V±10%, 50Hz±10%
		Air Pressure: 86~106kpa
		Temperature: -10~40℃
		Humidity: ≤80%RH
2	Safety Performance	Insulation Resistance>2MΩ
		Dielectric Strength 1.5kV power supply chassis work frequency withstand voltage 1 minute, no flashover and arcing.
3	Time	range 64000.0ms, resolution 0.1ms, word error: ≤0.1%rdg±0.1ms
	Speed	span 20.00m / s, resolution 0.01m /s,word Error: ≤1%rdg±0.01m/s
	Current	30.00A, resolution range 0.01A
	Output power	DC0 ~ 270V digital adjustable / 30A (resolution:1V)

2. Tips

	span	resolution	error
Vacuum breaker	50.0mm	0.1mm	$\leq 1\% \text{rdg} \pm 0.1\text{mm}$
SF6 circuit breaker	300.0mm		
Less oil circuit breakers	1000.0mm		



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