

Circuit Breaker Analyzer System

سیستم تست کلیدهای قدرت با قابلیت DRM



The complete toolbox for testing and analyzing circuit breakers with Dynamic/ Static Contact Resistance Metering

Tests

- Timing test: Contact Close/ Open time, Out of sync, Contact bounce rate, etc.
- Traveling test: Contact stroke, Close/ Open speed, Overtravel, Rebounce, etc.
- Static contact resistance: Contact static resistance during close time
- Dynamic contact resistance test (DRM): Contact resistance variation curve during open operation

Features

- Three linear and rotary (encoder) sensor inputs
- Static and dynamic resistance metering by applying a current of 400A DC in range of 1μΩ to 160mΩ
- Drawing curve of dynamic resistance operation and applied current
- Calculating Resistance, Length and Time of dynamic resistance of contact
- Drawing curve of contact movement, contact operation time, coil and motor current, Testing auxiliary equipment such as anti-pumping relay
- Calculating breaker test parameters such as stroke, speed, operation time, out of sync,...
- Calculating minimum voltage of coils operation

Applications

- Circuit breaker manufacturers
- **■** Power transmission, distribution repair and maintenance companies
- **■** Electrical power plant EPC companies
- Electrical power labs
- Big factories e.g. Steel, petrochemicals, refineries, and ...

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice. General Portable Circuit Breaker Analyzer with Dynamic/ Static Contact Туре Resistance Metering Main Voltage 220V AC, 50 Hz Dimensions (L×W×H) Basic Unit: 2 x (460 x 330 x 120 mm) 2 Basic Unit: 10.5 kg and 9 kg Weight **Resistance Metering Operation** $1\mu\Omega$ To $16m\Omega$ (±1 $\mu\Omega$) Resistance Measurement Range 10μΩ Το 160mΩ $(\pm 10 \mu\Omega)$ Output Test Current 30 to 400 A DC Output Voltage Up to 5 V DC ±1% reading ± 1dgt Accuracy Sampling Frequency 10 kHz 15 Seconds @ 200 A, 25°C Ambient Maximum Continuous Test Time (With Thermal Protection) 3 Seconds @ 400 A, 25°C Ambient **Breaker Analyzer Operation** Sequences (C: Close, O: Open) C, O, C-O, C-T-O, O-T-C, O-T-C-O 0-250V AC/DC (Set Automatically), 50 Hz, 10A Close / Open1 / Open2 Coil Voltage And Current Motor Voltage And Current 0-250V AC/DC (Set Automatically), 50 Hz, 10A Time Measurement Contact Inputs 16 Input Channels (3 Main, 13 Auxiliary) Time Spring Charge Range Resolution 0.1 ms 0.01% Of Printed Value ± 0.1 ms Inaccuracy With Operation Mechanism (Coil Energizing) Start Time Measurement Without Operating Mechanism (With the start of movement or change in the main contact) < 0.1 ms Time Difference Between Control Pulse And Timer Start **Motion Analyzer** Measurement Resolution < 0.1 mm Basic Inaccuracy 0.5% Time-Base Inaccuracy 0.02% Sampling Frequency 10 kHz Three Resistive Transducer / 100 Ω to 10 k Ω Analog Travel Transducer Input One Rotary Encoder / 2500 Pulse/r Digital Travel Transducer Input **CE Marking** EMC 2004/108/EC Tester 2006/95/EC Microohm meter (200A version) EMCD 2014/30/EU **Environment** Operating Temperature -20 to 55 °C (-4 to 131 °F) -30 to 70 °C (-22 to 158 °F) Storage Temperature Humidity 20% - 95% RH, Non-Condensing Miscellaneous Storage Capacity For Over 96 Test Records, 500 Ohm Value and 140 Ohm Curve Internal Thermal Printer USB and RS-232 Interface PC Software Accessories Motor Test Lead Set (4 x 4m) Coil Test Lead Set (5 x 4m) Main Contacts Test Lead Set (3 x 8m with Clamps) Current Test Lead Set (2 x 4m with Clamps) Voltage Test Lead Set (2 x 4m with Clamps) Trig Cable (1m) Earthing Cables (2 x 4m with Clamps) 2 x (Case Cover & Cable Bag) 2 x (Power, USB & RS232) Cables

CBA50 Specifications

One Year Warranty, Five Years After Sales Services