CBA50

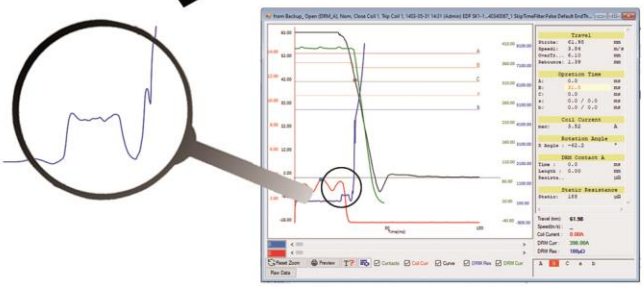
Circuit Breaker Analyzer System

With 7-inch graphical touch screen

سیستم تست کلیدهای قدرت با قابلیت DRM







The complete toolbox for simultaneous testing and analysis of the time, motion, and resistance performance (static and dynamic) of circuit breakers.

Tests

- Timing Test: Contact Closing/ Opening time, Out of sync, Bounce, etc.
- Travelling Test: Curve of contact movement, Closing/ Opening speed, Overtravel, Rebounce, etc.
- Dynamic Contact Resistance Measurement (DRM): Curve of dynamic resistance during opening operation, calculating Resistance, Length and Time of arcing contact, and curve of applied current
- Static Contact Resistance Measurement
- Curve of coil and motor current
- For contactors and non-operating mechanism breakers
- Ability to test the minimum voltage of the coils

Features

- 7-inch graphical touch screen
- rotary (encoder) sensor input
- Applying 400A DC current, Resistance measurement range from 1μΩ to 130mΩ
- Graphical results for quick interpretation
- Controlling of all operations by the device without the need for a computer
- Extremely reliable and easy to use
- Includes software for managing and storing completed tests

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...

CBA50 Specifications

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F).
Specifications are subject to change without notice.

General	
Type	Portable Circuit Breaker Analyzer with Dynamic/ Static Contact Resistance Metering
Main Voltage	220V AC , 50Hz
Dimensions (L× W × H)	Basic Unit: 2 x (460 x 330 x 120 mm)
Weight	2 Basic Unit: 10.5 kg and 9 kg
Resistance Metering Operation	
Resistance Measurement Range	1μΩ To 130mΩ
Measurement Resolution	1μΩ @ ≥100A
Output Test Current	35 to 400A DC
Output Voltage	Up to 5V DC
Accuracy	±(1% reading ± 1μΩ)
Sampling Frequency	10kHz
Continuous Test Time (With Thermal Protection)	15 Seconds @ 200A, 25ºC Ambient 1 Seconds @ 400A, 25ºC Ambient
Breaker Analyzer Operation	
Sequences (C: Close, O: Open)	C , O , C-O , C-T-O , O-T-C , O-T-C-O
Close / Open1 / Open2 Coil Voltage And Current	0-250V AC/DC (Set Automatically) , 50 Hz , 10A
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	40 s
Resolution	0.1 ms
Inaccuracy	0.01% Of Printed Value ± 0.1 ms
Start Time Measurement	**With Operation Mechanism** (Coil Energizing) **Without Operating Mechanism** (With the start of movement or change in the main contact)
Time Difference Between Control Pulse And Timer Start	< 0.1 ms
Motion Analyzer	
Measurement Resolution	< 0.1 mm
Basic Inaccuracy	0.5%
Time-Base Inaccuracy	0.02%
Sampling Frequency	10 kHz
Digital Travel Transducer Input	One Rotary Encoder / 2500 Pulse/r
CE Marking	
CBA50	EMC 2004/108/EC LVD 2006/95/EC
Environment	
Operating Temperature	-20 to 55 °C (-4 to 131 °F)
Storage Temperature	-30 to 70 °C (-22 to 158 °F)
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 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) 	Earthing Cables (2 x 4m with Clamps)  / Trig Cable (1m) 
2 x (Case Cover & Cable Bag) 	2 x (Power, USB) Cables 

One Year Warranty, Five Years After Sales Services

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