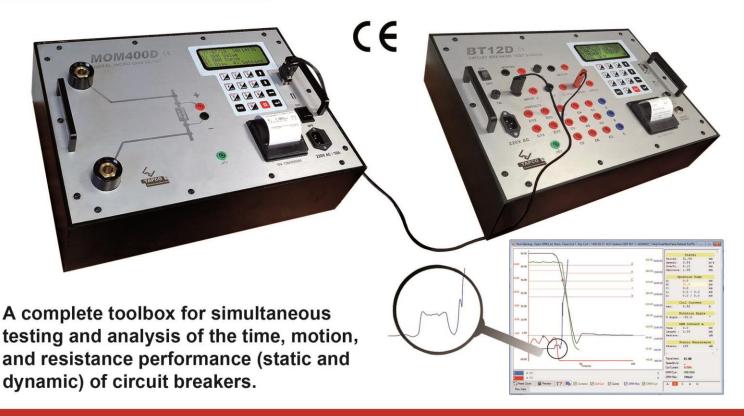


## **Circuit Breaker Analyzer System**

# سیستم تست کلیدهای قدرت با قابلیت DRM



# **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, curve of applied current
- Static Contact Resistance Measurement
- Electrical Equipment Test: Curve of coil and motor current, spring charge time, anti-pumping and under-voltage relays test, current of blocking coil and heater, etc.
- Special tests: For contactors and non-operating mechanism breakers
- Calculating Minimum Voltage Of Coil Operation

### **Features**

- Linear and rotary (encoder) sensor inputs
- Applying 400A DC current, Resistance measurement range from 1μΩ to 130mΩ
- Portable and heavy-duty case
- Thermal printer
- BTSoft10-Powerful software:
  - o Controlling all tests and necessary operations
  - o Graphical results for quick interpretation
  - o Extremely reliable and easy to use

## **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 130mΩ $(\pm 10 \mu\Omega)$ 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 One Resistive Transducer / 100 $\Omega$ to 10 k $\Omega$ Analog Travel Transducer Input One Rotary Encoder / 2500 Pulse/r Digital Travel Transducer Input **CE Marking** EMC 2004/108/EC BT12D 2006/95/E0 MOM400D (@ 200A) 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**