

CBA-32P

Circuit Breaker Analyzer

Circuit breaker testing per IEC 56 international standards

ZENSOL.com



CONTACT INPUTS (Digital 3 states)

Number available: 8, 16, 24 or 30 contacts
 Each input detect simultaneously the main contact AND the resistive contacts
 Each input can also be used to measure auxiliary contacts (type a/b)
 Contact circuit power supply: 40 V DC
 Maximum number of main contacts: 30
 Maximum number of resistive contacts: 30
 Each input handles 2 contacts.

Model:	400/500 kV:	Closed Preinsertion Open	($r < 30 \Omega$) ($30 \Omega < r < 4 \text{ k}\Omega$) ($r > 4 \text{ k}\Omega$)
	800 kV:	Closed Preinsertion Open	($r < 30 \Omega$) ($30 \Omega < r < 2.4 \text{ k}\Omega$) ($r > 2.4 \text{ k}\Omega$)
Internal module option		Capability of measuring the ohmic value of preinsertion resistance measurement: (RES-8, RES-16, RES-24)	
Type of connector:	10 V DC supplied on Neutrik connector	3-pin neutrik male	

COMMAND OUTPUTS / CURRENT INPUTS

Testing current: 2 built-in current sensors (one for close coil current, one for open coil current AC/DC)
 Use of Shunts NOT required to measure the current.
 Maximum input voltage: 0 to 300 V
 Voltage isolation to chassis: 2 kV
 Unlimited numbers of programmable commands: up to 30 tests per file
 Close, open (trip), close-open (trip free), open-close (reclose), open-close-open, close-delay-close-open, close-open-close-open, open-close-open-close, etc
 All tests are done according to the international standard IEC56.
 Pulse width: 0 to 999 s, with one ms precision.
 Pulse delay: 0 to 999 s, with one ms precision.

ANALOG INPUTS (Open hardware architecture)

Number: 5 or 8
 Resolution: 12 bits A/D converter
 Universal Analog input range: 0 to 10 V DC
 Type of connector: 3-pin neutrik female
 3 or 8 general-purpose ANALOG inputs (software-configurable)
 Can fit various transducers
 Can be easily configurable to measure auxiliary contacts

WET CONTACT INPUTS (Digital 2 states)

Number: 3 or 6
 Response time: 5 μ s in turn on or 40 μ s in turn off
 Input voltage: Range from 0 to 300 V AC/DC
 Activation mode: 50 V DC

DIGITAL INPUTS FOR OPTICAL ENCODERS (option)

Number: 3 or 6
 Resolution: 8000 pulse / revolution
 Type of transducer: Incremental
 Type of connector: 4-pin neutrik male
 5 V DC supplied on Neutrik connector
 Automatic reset to 0
 3 or 6 ENCODER inputs (software-configurable)

MEASUREMENTS

Sampling times: 32 μ s to 32,000 μ s
 Sampling rate: 31.25 Hz - 31,250 Hz
 Recording time: 1 ms to 17 minutes
 Resolution: 32 μ s
 Accuracy: $\pm 32 \mu$ s
 Graphic representation resolution: Unlimited software zoom

STATIC AND DYNAMIC MICRO OHMMETER (Option)

Ranges: From 10 μ Ω to 3 mΩ
 Accuracy: $\pm 1 \mu$ Ω
 Testing current: 140 A - 700 A
 Voltage: 10 V DC
 Supply voltage: 110-120 VAC or 220-240 VAC, 50/60 Hz
 Environment: Any voltage environments (up to 800 kV)

FIRST TRIP MONITORING (Option)

Input current: Typical: 1 to 5 A Max: 50 A
 Output voltage: 0-10 V DC
 Response time: 10 μ s
 No external power required. (Power supplied by the CBA-32P)

GENERAL

Dimensions: 13"x13.5"x7" (33x35x18 cm)
 3 cases available: 17"x16.5"x10" (43x42x25.4 cm)
 18"x19"x8.9" (46x48x22.6 cm)
 Weight: CBA-32P 8C : 27.5 lb (12.5 kg)
 CBA-32P 16C : 34.2 lb (15.5 kg)
 CBA-32P 24C : 38 lb (17 kg)
 Power supply: 110-120 VAC or 220-240 VAC, 50/60 Hz
 Working temperature: 0°C (32°F) to 50°C (132°F)
 Storage temperature: -20°C (-4°F) to 70°C (158°C)
 Humidity: 0-85% Non Con.
 Language: English, French and Spanish

OPTIONS AND OTHER ACCESSORIES

Extension cables (several lengths available)
 ARCTIC cables -50°C (-58°F) to 80°C (176°F)
 Displacement linear and/or rotary and/or optical transducers
 Kit-ZLB linear transducer mechanical adapter
 Kit-ZLR motion converter for rotary transducers
 Kit-ZMS universal magnetic mechanical adapter
 Large choice of mechanical adapters for various breakers

SYSTEM INCLUDES:

CBAWIN software with Unlimited free upgrades
 Adapter for RS232/fiber optic data link (57600 baud) with 10 feet fiber optic cable
 Complete set of I/O cables including contact cables, displacement cables, ground cable, and command cable
 2 year Warranty
 Complete set of manuals including operator's guide, installation, set-up and analysis manual and tabular report designer manual
 Unlimited free manuals download
 Certificate of calibration & test reports.

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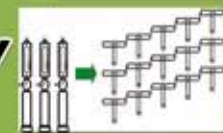
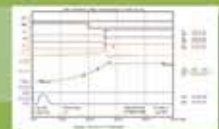
STRONGLY BUILT

STRONGLY BACKED

A COMPLETE RANGE OF ACCESSORIES

CBAWIN CORE OF THE SOLUTION

THE ONLY SYSTEM CAPABLE TO TEST 3 TO 30 CONTACTS UP TO 800 KV



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