

Technical specifications CBA-32P

RECORDING CHARACTERISTICS

Sampling time: 32 microseconds (μ s) to 32 milliseconds (ms)

Sampling rate: 31.25 Hz to 31.25kHz

Recording time: 1 millisecond (ms) to 17 minutes

A/D conversion: 12 bits

DIGITAL INPUTS FOR CONTACTS (3 states)

Number available: 8, 16 or 24 contacts

Contacts power supply: 40 V DC

Model:

500 kV Closed ($r < 30\Omega$)

Preinsertion ($30\Omega < r < 4k\Omega$)

Open ($r > 4k\Omega$)

800 kV Closed ($r < 30\Omega$)

Preinsertion ($30\Omega < r < 2.4k\Omega$)

Open ($r > 2.4k\Omega$)

Each input contains 2 contacts and detects both main and resistive contacts. Each contact may also be used to measure auxiliary (a/b type) or any other dry contacts.

ANALOG CONTACT INPUTS (12 bits, internal option)

RES-8, RES-16, RES-24 for 8, 16 or 24 contacts.

A preinsertion resistance measurement module able to measure the true ohmic resistance value (0 to 7k Ω , +/-5%) of preinsertion resistors on any type of circuit breaker during both close and open operations. The close and open connections use the same cables and inputs as the digital contacts.

Note: This module is the equivalent of an ultra-fast ohmmeter.

DIGITAL INPUTS FOR WET CONTACTS (2 states)

Number available: 8, 16 or 24 via external cables

Response time: 5 μ s turn-on, 40 μ s turn off

Input voltage: 0-300V AC/DC

Switching voltage: 50V DC

MULTIFUNCTION ANALOG INPUTS (12 BITS)

Number available: 3 or 6

Resolution: 12 bits conversion A/D

Accuracy: +/- 2.44 mV

Input voltage range: 0 to 10 VDC

It is possible to connect a wide range of transducers (motion, voltage, current, pressure, humidity, temperature ...)

Note: 10 VDC is supplied on the Neutrik connector

Analog inputs are also used for:

KIT MO-SD: Main and arcing contact for Dynamic Contact Resistance Measurement (DCRM)

KIT ZLB: Linear resistive motion

Zensol

KIT ZMS: Analog rotary motion with resistive rotary transducer
KIT ZLR: Linear to rotary motion with resistive rotary transducer
KIT ZFT: First trip test
ZVS: Voltage transducer
ZCS: Current transducer

FIRST TRIP DETECTION INPUTS (External option)

AC current clamp which is easily connected to the analog inputs.
Typical input current: 1 to 20 Amps AC
Number: 3 or 6

DIGITAL INPUTS FOR OPTICAL ENCODERS (16 bits)

Number available: 3 or 6
Resolution: 8000 pulses/revolution
Type of transducer: Incremental
Automatic reset to zero before each test.
KIT ZMS: Digital rotary motion with digital encoder transducer
KIT ZLR: Linear to rotary motion with digital encoder transducer

COMMAND OUTPUTS / CURRENT INPUTS

Command outputs: 2 completely independent contactors (close and open, able to break up to 30A and 300V AC/DC)
Current inputs: 2 integrated and independent current transducers (in series with the two contactors)
Eight Software selectable current ranges: +/-20A, +/-10A, +/-5A, +/-1A, 0-1A, 0-5A, 0-10A, 0-20A.
Note: Hall effect current transducer needs no shunt to measure the current.

GENERAL

3 available case sizes: 13" x 13.5" x 7" (33 x 35 x 18 cm)
17" x 16.5" x 10" (43 x 42 x 25.4 cm)
18" x 19" x 8.9" (46 x 48 x 22.6 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: 110-120V AC or 220-240V AC (50/60 Hz)
Operating temperature range: 0°C à 50°C (32°F à 122°F)
Storage temperature range: -20°C à 70°C (-4°F à 158°F)
Humidity: 0-95% Non-condensing

THE SYSTEM INCLUDES

CbaWin© software
Complete set of manuals
Calibration certificate and test reports
2 years warranty