



MCCB-250

High-Current Source

The MCCB-250 is a programmable, high-current source designed specifically for testing molded-case circuit breakers as well as thermal, magnetic, or solid-state overload motor-protection relays.

MCCB-250 Timer

The MCCB-250's built-in timer can test the time-delay characteristics of protection relays and molded-case circuit breakers. Once the test is initiated, the current source and the timer are automatically turned on at the next zero-crossing point of the AC. The timer stops when the MCCB-250 input detects a change in the dry contact or voltage input, or detects the removal of the test current. The test results are then displayed in milliseconds and fractions of cycle(s) on the unit's back-lit LCD screen (20 characters by 4 lines).

MCCB-250 Current Source

The MCCB-250 has 4 current-source outputs (5 A @ 120 Vac, 25 A @ 24 Vac, 120 A @ 6 Vac, 250 A @ 3 Vac) that conduct the test current through the high-impedance load circuits. Each current source can tolerate short-duration over-loads up to 4 times the rated current. This feature is used for testing the instantaneous trip element of molded-case circuit breakers. When using this feature, the selected test current is displayed on the LCD screen. When the MCCB-250 is used as a current source, the current-flow time (the current-on period) is displayed on the LCD screen.

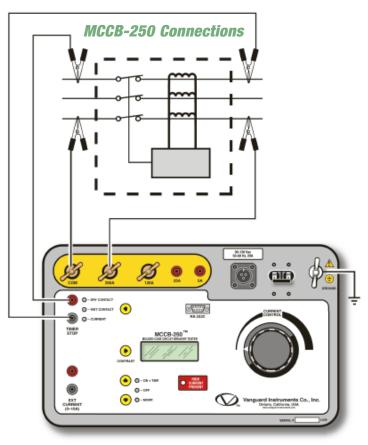
External Current Input

The MCCB-250 also provides an external current input (0-10 A). Both internal and external current source readings can be viewed at the same time.

Test Molded Case Circuit Breakers, thermal magnetic and solid-state overload motor-protection relays with

Output Current & Duration

CURRENT	ON TIME	OFF TIME
100% (1x)	30 Minutes	30 Minutes
200% (2x)	3 Minutes	5 Minutes
300% (3x)	30 Seconds	4 Minutes
400% (4x)	4 Seconds	7 Minutes



Ordering Information

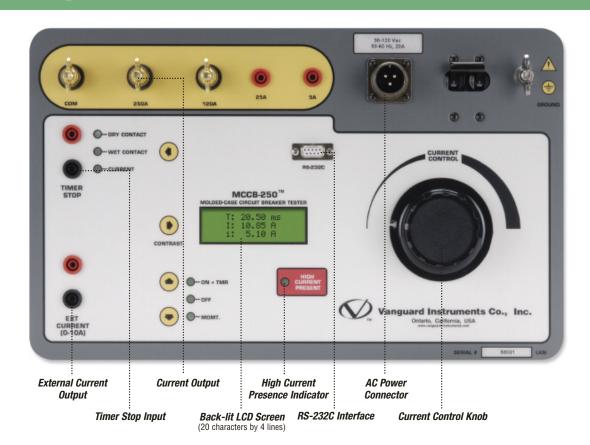
MCCB-250 Circuit Breaker Tester Set

MCCB-250 Universal Current-Source Part No: MCCB-250
MCCB-250 Shipping case Part No: MCCB-250 case

MCCB-250 Test Leads-10 ft Part No: MCCB-250 Test Leads-10 ft MCCB-250 Test Leads-20 ft Part No: MCCB-250 Test Leads-20 ft

Circuit Breaker Test Set for Molded Case Circuit

Vanguard's MCCB-250



SPECIFICATIONS

TYPE 250 Ampere current source

PHYSICAL SPECIFICATIONS 16.8"W x 12.6"H x 10.6"D (42.6 cm x 32.0 cm x 27.0 cm); Weight: 46 lbs (21 kg)

INPUT POWER 100 – 120 Vac or 200 – 240 Vac (factory pre-set), 50/60 Hz

OUTPUT CURRENTS 0 - 5 A @ 120 Vac max; 0 - 25 A @ 24 Vac max; 0 - 120 A @ 6 Vac max; 0 - 250 A @ 3 Vac max

INTERNAL CURRENT METER 100 mA – 1000 A; Accuracy: 1% of reading ±20mA

MEASUREMENT METHOD Isolated CT

EXTERNAL METER RANGE 10 mA - 10 A; Accuracy: 1% of reading, ±2mA

MEASUREMEENT METHOD Isolated CT

TIMER READING RANGE 1ms -2 hours; Accuracy: 0.1% of reading ± 1 ms

TIMER STOP INPUTS Voltage input (24V – 300V, DC or peak AC), dry contact input, or removal of primary current

DISPLAY Back-lit LCD Screen (20 characters by 4 lines); viewable in bright sunlight and low-light levels

COMPUTER INTERFACE RS-232C port for factory calibration and diagnostics

SAFETY Designed to meet IEC61010 (1995), UL61010A-1, CSA-C22.2 standards

ENVIRONMENT Operating: -10°C to 50° C (15°F to +122° F); Storage: -30° C to 70° C (-22°F to +158° F)

HUMIDITY 90% RH @ 40°C (104°F) non-condensing **ALTITUDE** 2,000m (6,562 ft) to full safety specifications

CABLES Power cord, ground cable, 10-foot #2 AWG test leads

OPTIONS Transportation caseWARRANTY One year on parts and labor

Note: The above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.



