

# AMCCB-250

HIGHEST ACCURACY & LOWEST COST



## Molded Case Circuit Breaker and Relay Tester

# AMCCB-250

4-Current Source Output.


Testing Molded-Case Circuit Breakers.

Testing Thermal, Magnetic, Or Solid-State Relays.

LCD screen.

amperis

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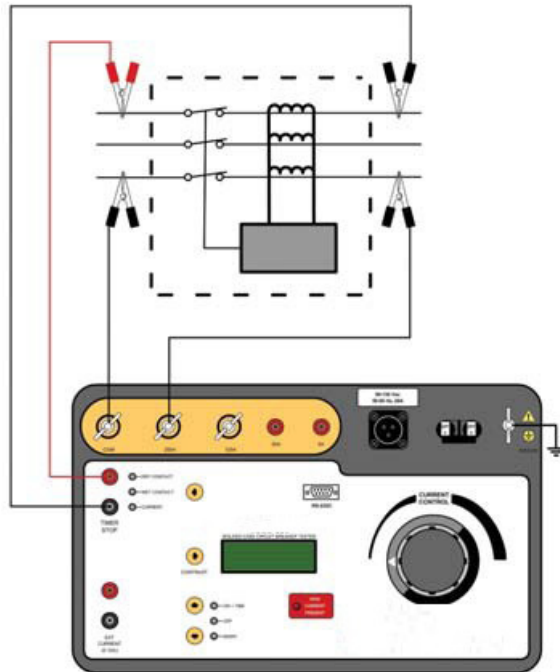
 AMPERIS PRODUCTS S.L  
Agricultura,34  
27003, Lugo, Spain

 Contact

+T [+34] 982 20 99 20 | F [+34] 982 20 99 11  
info@amperis.com | [www.amperis.com](http://www.amperis.com)

The AMCCB-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.

### AMCCB-250 Connections



#### Built-in Timer

The AMCCB-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 AMCCB-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 milli-seconds and fractions of cycle(s) on the unit's back-lit LCD screen (20 characters by 4 lines).

#### External Current Input

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

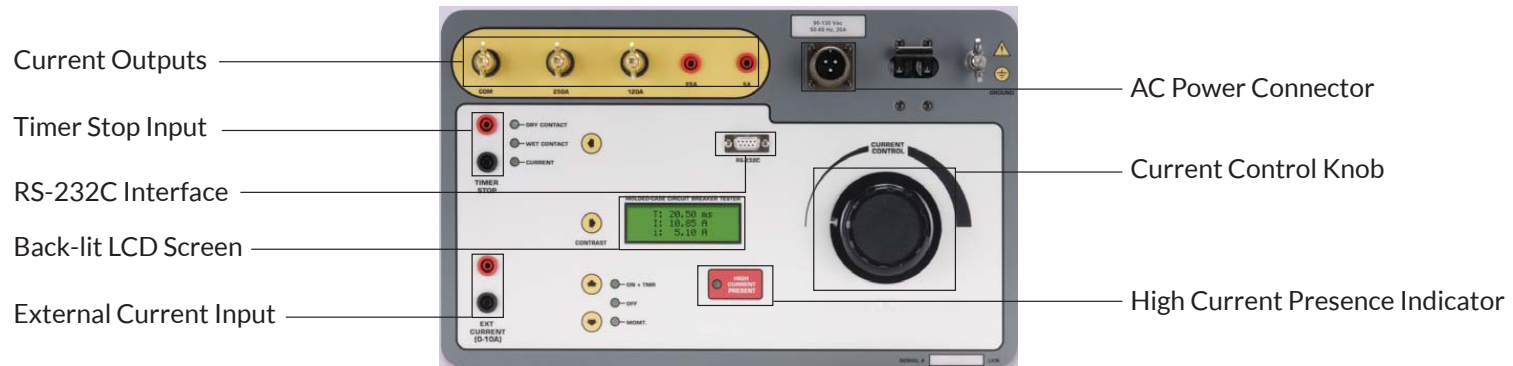
#### Current Source

The AMCCB-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 (1000 A max). 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.

**AMCCB-250 Output Current and Duration Table**

| Current   | On time    | Off time  |
|-----------|------------|-----------|
| 100% (1x) | 3 minutes  | 5 minutes |
| 200% (2x) | 30 seconds | 4 minutes |
| 300% (3x) | 4 seconds  | 7 minutes |
| 400% (4x) | 4 seconds  | 7 minutes |

## AMCCB-250's Controls



## AMCCB-250's Specifications

|                                |  |
|--------------------------------|--|
| <b>Type</b>                    | 250 Ampere current source  |
| <b>Physical specifications</b> | 17"W x 12K"H x 10K"D (42.6 cm x 32cm x 27 cm). Weight: 46 lbs (21 kg)  |
| <b>Input power</b>             | 100 - 120 Vac or 200 - 240 Vac (factory pre-set), 50/60 Hz   |
| <b>Output currents</b>         | 0 - 5 A @ 120 Vac max; 0 - 25 A @ 24 Vac max; 0 - 120 A @ 6 Vac max; 0 - 250 A @ 3 Vac max   |
| <b>Internal current meter</b>  | 100 mA - 1000 A; Accuracy: 1% of reading $\pm 20$ mA   |
| <b>Measurement method</b>      | Isolated CT  |
| <b>External meter range</b>    | 10 mA - 10 A; Accuracy: 1% of reading, $\pm 2$ mA  |
| <b>Timer reading range</b>     | 1ms - 2 hours; Accuracy: 0.1% of reading $\pm 1$ ms  |
| <b>Timer stop inputs</b>       | Voltage input (24V - 300V, DC or peak AC), dry contact input, or removal of primary current  |
| <b>Display</b>                 | Back-lit LCD Screen (20 characters by 4 lines); viewable in bright sunlight and low-light levels   |
| <b>Computer interface</b>      | RS-232C port for factory calibration and diagnostics   |
| <b>Safety</b>                  | Designed to meet IEC61010 (1995), UL61010A-1, CSA-C22.2 standards  |
| <b>Environment</b>             | Operating: $-10^{\circ}\text{C}$ to $+50^{\circ}\text{C}$ ( $+15^{\circ}\text{F}$ to $+122^{\circ}\text{F}$ ); Storage: $-30^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ ( $-22^{\circ}\text{F}$ to $+158^{\circ}\text{F}$ ) |
| <b>Humidity</b>                | 90% RH @ $40^{\circ}\text{C}$ ( $104^{\circ}\text{F}$ ) non-condensing   |
| <b>Altitude</b>                | 2,000 m (6,562 ft) to full safety specifications   |
| <b>Cables</b>                  | Power cord, ground cable, 10-foot #2 AWG test leads  |
| <b>Options</b>                 | Transportation case  |
| <b>Warranty</b>                | 1 year on parts and labor  |

NOTE: the above specifications are valid at nominal voltage and ambient temperature of  $+25^{\circ}\text{C}$  ( $+77^{\circ}\text{F}$ ). Specifications are subject to change without notice.