

# Branch Terminal Block

## About the SCCR Standard

[Features]

This terminal block is designed to accept input from a breaker, etc., and split the circuit on its power transmission side.

It can also be used to collect currents routed to it via multiple branch wires.

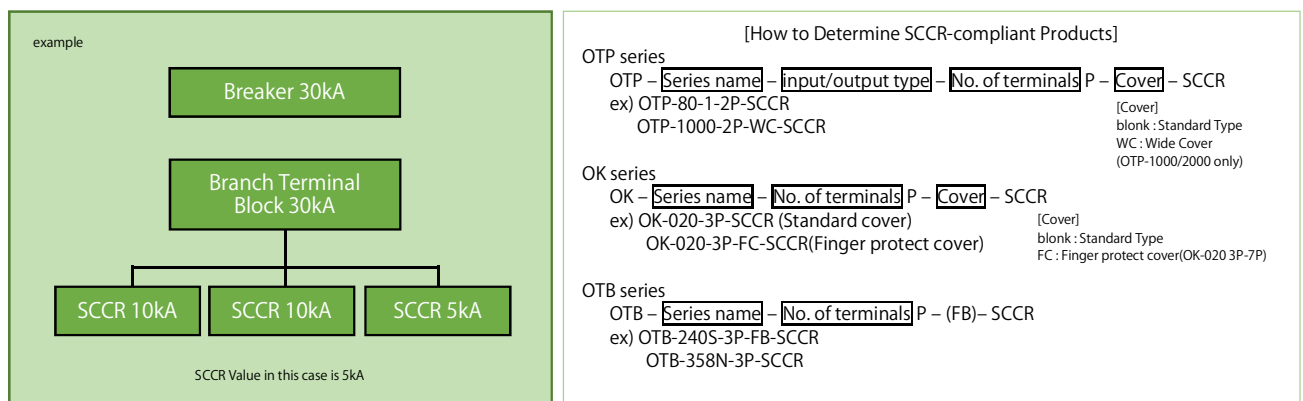
\*The product is certified SCCR in combination with the breaker.

[The SCCR Standard] ("SCCR" is an acronym for "Short Circuit Current Ratings")

In accordance with Article 409 of NEC (National Electric Code of the USA) 2005, all industrial control panels intended for export to the United States must be marked with the SCCR rating they are certified for that is plainly visible after installation. The SCCR marking must indicate the lowest short circuit current rating value among all components of the control panel's main circuit (power circuit) as the SCCR rating of the whole control panel. Currently, the marking is required under IEC 60204 (Safety of machinery - Electrical equipment of machines). The SEMI standards have broadened the requirement to indicating all SCCR values.

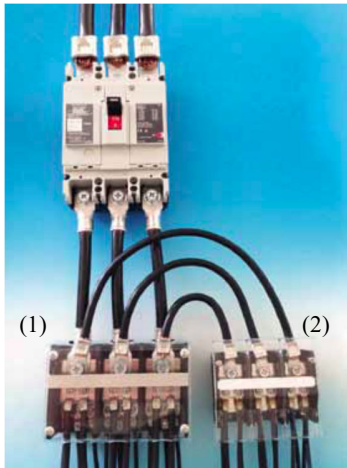
<Key Notes Regarding SCCR Marking>

- The rating value indicated separately for an individual breaker should not be indicated as the SCCR rating.
- The SCCR rating that is certified for the combination of breaker and terminal block should be indicated.
- In case there are components connected below the terminal block, the lowest short circuit current rating value among all components should be indicated as the SCCR rating.



(Attention!) SCCR-compliant products are marked with the SCCR rating. If there is no SCCR marking, the product presents a general purpose terminal block.

[How to Use SCCR-Compliant Branch Terminal Blocks for Multiple Branch Connections]

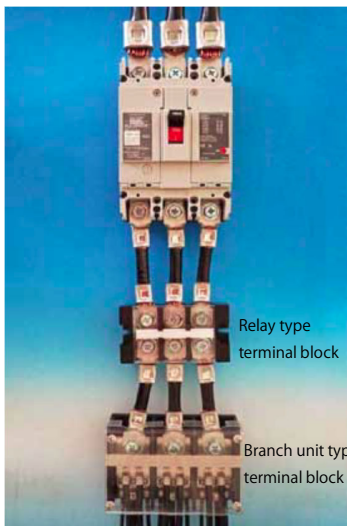


**Branching circuit from breaker to branch terminal blocks**

Branch connections from terminal block (1) to terminal block (2) can be made using wires or a copper bar bridge.

The SCCR ratings of the breaker and terminal block (1) can be indicated in the marking.

(Important) \*When using a copper bar, make allowance for the creeping distance and direct distance.



**Branching circuit from breaker via relay terminal block**

When making branch connections using a relay terminal block, you can use the method illustrated in the picture on the left.

The SCCR ratings of the breaker and the relay terminal block can be indicated in the marking.

(Important) The relay terminal block must pass the SCCR test.

[SCCR-compliant Breaker Combinations]

\*The SCCR certification is attained for the combinations of terminal blocks with particular breakers. (For the combinations, refer to the table in PDF format.)