

Multi-wire lugs allow OEMs to improve short-circuit current ratings, reduce space and lower component costs

The use of load-side multi-wire lugs provides OEMs an alternative to power distribution blocks by distributing the electrical load through the panel right from the circuit breaker.

Power distribution blocks are used in many electrical control panels to distribute the load after exiting the overcurrent protection device. In many cases, distribution blocks have the lowest short-circuit current rating of any component in the electrical control panel. By eliminating the need for power distribution blocks, the control panel's short-circuit current rating will improve, along with reducing space within the enclosure, as well as bill of material costs. Multi-wire lugs take on the short-circuit current rating of the molded-case circuit breaker they're paired with, eliminating a weak point in short-circuit design. Multi-wire lug kits include terminal shield, mounting hardware, insulators and tin-plated connectors, where required. They can be field or factory installed.

Markets and applications

- Any OEM producing an electrical control or distribution panel that is currently using a power distribution block
- Typical markets include pumping panels, machine control and AC side alternative energy applications

Features and benefits

- Improves short-circuit current rating between the circuit breaker and the downstream devices by eliminating the power distribution block
- Multi-wire lugs attach directly to the circuit breaker, therefore reducing the space required on the backpan
- Multi-wire lugs provide a lower cost solution based on application
- Reduces panel wiring compared to a power distribution block with a direct connection to the circuit breaker

Product specifications

Breaker family/ maximum amperes	Wires/ terminals	Wire size range, AWG Cu	Kit catalog number
GD 100	3	14-2	3TA100G3K
GD 100	6	14-6	3TA100G6K
FD 225	3	14-2	3TA150F3K
FD 225	6	14-6	3TA150F6K
JD 250	3	14-2	3TA250J3K
JD 250	6	14-6	3TA250J6K
KD 400	3	14-2/0	3TA400K3K
KD 400	6	14-3	3TA400K6K
EG 125	3	14-2	3TA125E3K
EG 125	6	14-6	3TA125E6K
JG 250	3	14-2	3TA250FJ3
JG 250	6	14-6	3TA250FJ6
LG 600	6	14-1/0	3TA600L6K

Why Eaton?

Eaton offers a robust and growing line of lug options to help OEMs meet new UL® 508A and NEC® requirements around short-circuit current ratings. These products help meet code and provide a cost and space saving solution.



To learn more about Eaton's short-circuit current rating solutions, please visit Eaton.com/sccr, or contact your local Eaton sales representative.