

Service Entrance rated main breakers —power factor correction (PFC)



Per the intent of UL® 869A (standard for Service Entrance Equipment) CI 3.6 definition of Service Equipment—Equipment, usually consisting of a circuit breaker, switch, or fuses, and related accessories, located near the point of entrance of supply conductors to a building or other structure and intended to constitute the main control and means of cutoff of the supply.

Because the molded case circuit breaker (MCCB) in our PFC equipment cannot become a means to cut off the mains supply, we are unable to provide the Service Entrance label onto our MCCB/PFC equipment.

A service entrance specifically serves as common point of ground and neutral for the rest of the loads. Because it is not possible to (in advance) size our ground lugs/bar to match the rating of the main grounding conductors, and because we do not recommend our PFC equipment to serve as the main grounding terminal for the remaining loads, an effective neutral-to-ground bonding cannot be achieved in our panel because there is no neutral.

Eaton, however, can declare that our MCCBs (used in the PFC equipment) are UL 489 Listed and are suitable to be used in Service Entrance rated equipment and meet all the requirements of a circuit breaker to be used in Service Entrance equipment as described in UL 869A, when it performs the above-described function and can be labeled such in those instances.

For technical support and application engineering assistance, please contact Eaton's TRC at **1-877-386-2273**, option 2, option 5, option 2 or email pfc@eaton.com

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