



UL 508A panel shop circuit protection solutions

EATON

Powering Business Worldwide

Compact, safe and compliant circuit protection solutions

Eaton offers Bussmann™ series circuit protection solutions that reduce arc flash hazards, increase short-circuit current rating (SCCR), enhance electrical safety, save panel space and provide quicker installation – all while reducing maintenance time and inventory.

We understand the challenges UL 508A panel shops face, and offer innovative products that not only enhance safety and reliability, but also provide the opportunity to reduce enclosure size and realize significant cost savings.

Take our 200 amp Compact Circuit Protector (CCP) with 200 amp Class CF CUBEFuse™ fuses, a UL® Listed disconnect switch that requires as little as 1/3 the space within a panel as traditional fusible solutions, and the same footprint as circuit breaker solutions, with a 200 kA SCCR.

Using our CCP with CUBEFuse fuses, you can not only match the footprint of circuit breaker solutions, and prevent redesign, but also include a product with a 200 kA SCCR. What's more, the CCP with CUBEFuse fuses provides current limitation to protect the equipment and the panel it's controlling, and it reduces the available arc flash energy present to field technicians servicing them.

The Bussmann series application engineering team can recommend solutions for reducing panel footprint and saving installation time, all while providing the industry's best circuit protection. The team can also guide you in the selection of additional cost-effective products to further reduce costs for your customers.

Our field application engineers are available to train engineers, designers and specifiers on the importance of increasing panel SCCR and how to stay in compliance with NEC® 2017 regulations. Eaton also offers solutions that are easy to install external to the panel, for applications involving enclosed fusible disconnect products.

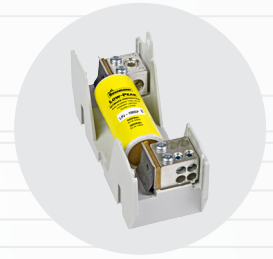
Bussmann series solutions offer industry-leading protection of electrical and electronic system components within control panels, and deliver increased protection of critical components. Trust our more than 100-year legacy of compact, safe and compliant circuit protection solutions.



Fusible circuit protection



Power distribution fuse blocks



Fuse holders and blocks



Panel-mount fuse holders



Disconnect switches



Safety switches



Surge protective devices



Panel-mount terminal blocks



Power distribution blocks

Fusible circuit protection

- Low-Peak™ fuses offer superior current limitation to help increase panel SCCR
- Class CF CUBEFuse™ and Class J fuses provide the ultimate protection for control panels, particularly in motor control applications
- Fusetron™ Class RK5 fuses are, on average, 23% more energy efficient (Test results based on weighted sales volume of Fusetron and Mersen fuses by selected amp and volt rating combinations)

Fuse holders and blocks

- Power distribution fuse block uses 50% less panel space and reduces installation time by 33% compared with traditional solutions
- CUBEFuse holder, available up to 400 amps, offers up to a 70% reduction in footprint when compared to equivalent fuse holders, with 200 amp and larger holders featuring multiwire lugs
- IP20 finger-safe cover with lockout/tagout capability enhances the safety of the overall panel

Disconnect switches

- Full range of open and enclosed disconnect switches and operators with up to 200 kA SCCRs and current limiting fuses to protect downstream equipment
- Fusible compact circuit protector (CCP) disconnect switch up to 200 amps can deliver a 69% space savings over traditional fusible disconnects and is horsepower rated for protecting motor circuits
- CCPs with multi-wire lugs allow for further reduction in distribution components and additional space savings

Power distribution blocks

- High SCCR, up to 200 kA, when protected by upstream fuses, helps achieve a high panel SCCR
- UL 1953 Listed products that meet feeder circuit requirements per UL 508A
- Both open-style and finger-safe products offered for application versatility

Case study

Challenge

A panel manufacturer that supplies control panels to several variable frequency drive integrators had been tasked with increasing the panel SCCR of multiple legacy designs, but they did not want to spend the time or money needed to redesign the panel when they would only be supporting that series of panels for a few more years. They were initially thinking they would have to install a solution on the outside of the panel, but weren't certain if all of the drive installation locations would allow for that.

Solution

Eaton's Bussmann business proposed an easy solution, using the 200 amp Compact Circuit Protector (CCP) with its 200 kA SCCR and Low-Peak CUBEFuse fuses. The customer was not only able to keep the same layout as before, but also able to reduce one of their power distribution blocks by using the proper lugs and quick-connect control wire kit. It gave the customer a higher panel SCCR and reduced their labor costs as well as some component costs.

Where the pieces connect

Our portfolio of circuit protection solutions can be used in applications including:

- Panel-shop facility
- Design firm
- Automation/distribution facility
- Wiring harness manufacturer for OEM products
- Water/wastewater treatment facility
- Industrial manufacturer

In addition to the highlighted products, we offer:

- Overcurrent protection
- Overvoltage protection
- Disconnects
- Fuse blocks, power distribution blocks, terminal blocks
- Contactors, motor starters, relays
- Motor control centers
- Medium voltage motor control

Learn more about our solutions at
Eaton.com/bussmannseries.

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