

Circuit protection solutions

**BUSSMANN**  
SERIES

# Products and services that enhance electrical safety and reliability



**EATON**

*Powering Business Worldwide*

## Benefits of Eaton's Bussmann® series circuit protection solutions

### Local resources and technical expertise

With Canadian headquarters in Mississauga, ON, and offices in Montreal, QC, and Calgary, AB, we have a dedicated team of sales agents and field application engineers that can meet with you to help solve your customers' circuit protection needs and enhance their power application projects.

Our sales agents serve all of Canada with offices in Vancouver, Calgary, Edmonton, Saskatoon, Regina, Winnipeg, Mississauga, Montreal, Quebec City, Moncton, Halifax and St. John's.

What's more, our team of application engineers and sales engineers can recommend solutions for reducing footprint and saving installation time, all while providing the industry's best protection. They can also guide you in the selection of cost effective products to further drive down costs for you and your customers.

### Locally stocked products

Our commitment to customer service includes distribution centers in Mississauga, ON, and Vancouver, BC, strategically located near major transportation hubs. These distribution centers are fully stocked with popular products that can ship within 24 hours with our QuikShip Everyday Service.

### Broad portfolio

We offer a comprehensive portfolio of overcurrent and overvoltage products and accessories to protect buildings and equipment. Our Bussmann series fuse solutions are available to meet virtually any low voltage and high speed fuse requirement. Additionally, we offer a broad spectrum of medium voltage and photovoltaic fuse products to meet the needs of power distribution and alternative energy generation. To round out our portfolio, we offer innovative fuse blocks and holders, electrical gear, surge protective devices and other products necessary for the application and use of circuit protection products.

### Innovative solutions

Our team of experts continually introduces innovative solutions that enable your application to operate more safely and efficiently. Our products can help reduce arc flash hazards, provide superior electrical system and equipment protection, save space in the panel and provide quicker product installation, all while reducing maintenance time and inventory.

### QuikShip Emergency Service and after hours ordering

In addition to our products, our service also sets us apart. When your customers have an emergency and need to restore power fast, we offer expedited shipment for time-critical needs. This service is available 24/7/365 and customers pay only the standard product price, rush freight charges and modest emergency service fee.

Place orders toll free through our Customer Satisfaction Team at 1-855-BUSSMANN (855-287-7626) Monday — Friday, 7:00 a.m. — 6:00 p.m. Central Time, and after hours, weekends and holidays at 314-995-1342. For same day shipment emergency service, orders must be placed by 11:00 a.m. Central Time, Monday — Friday.

**More solutions. More expertise. Expect more.**



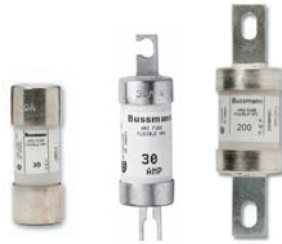
## Fuses

### Low voltage



#### CSA cartridge and plug

- 250V CDN and PON cartridge fuses 1-600 amps
- 600V CDS cartridge fuses 1-600 amps
- 125V TC and P Edison base plug fuses 15-30 amps



#### CSA 600Vac/250Vdc HRC

- CGL Form II, Class C bolt-on fuses 1-600 amps
- CIF HRCI-CA bolt-on fuses and HRCI-CB offset blade fuses 1-30 amps
- CJ HRCI-J fast-acting ferrule/bolt-on 1-600 amps
- CIH, CIK and CIL HRCI Type K bolt-on fuses 1-100 amps



#### UL low voltages

- 600Vac and 250Vac CSA Certified time-delay and fast-acting UL branch circuit rated fuses
- DC voltage ratings by fuse class and part number
- Class CC (1-30A), Class CF CUBEFuse™ (Class J electrical performance 1-100A), Class G (1-60A), Class K5 and H (250/600V, 1-600A), Class L (601-6000A), Class RK1 and RK5 (250/600V, 1-600A), Class T (300/600V, 1-1200A)

### Medium voltage



#### E-Rated

- Indicating indoor/outdoor fuses for transformer, switchgear and feeder circuit protection
- Long (Westinghouse) and short bolt-on and clip-lock constructions
- 2.4kV, 5.5kV, 8.3kV and 15.5kV
- 10-1350 amps



#### PT

- Indicating and non-indicating E-Rated, current-limiting fuses for potential, small power and control transformers
- 2.4kV (0.25-5A), 3.6kV (2-10A), 5.5kV (0.5-15A), 7.2kV (0.5-10A), 8.3kV (0.5-10A), 12kV (2-3.15A), 15.5kV (0.5-10A), 17.5kV (2-10A), 24kV (2-4A), 25.5kV (0.5-1A), 36kV (2-4A), 38kV (0.5-4A)



#### R-Rated

- Indoor/enclosure, R-Rated medium voltage, current-limiting fuses for motor circuit protection
- Standard, AMPGARD Hookey, hermetically sealed and bolt-on constructions
- 2.4kV (25-450A, 2R-24R), 4.8kV (30-800A, 2R-44R), 7.2kV (70-800A, 2R-44R)



#### DIN

- DIN 43625 dimensioned indicating fuses in compliance with IEC 60282-1 for transformer protection
- 3.6kV (6.3-400A), 7.2kV (6.3-355A), 12kV (6.3-200A), 17.5kV (6.3-125A), 25kV (6.3-160A), 36kV (3.15-63A)

### High speed



#### DFJ

- CSA certified full range, current-limiting high speed UL Class J fuse
- Suitable for supplemental or branch circuit protection
- Utilizes standard Class J fuse blocks and holders
- 600Vac/450Vdc (1-600A)



#### BS-88

- Designed and tested to BS-88, Part 4, featuring minimal energy let-through ( $I^2t$ ), excellent DC performance and good surge withstand profile
- 240Vac/150Vdc (6-900A)
- 690Vac/500Vdc (6-710A)



#### Square body

- Class aR, fuses designed and tested to IEC 60269, Part 4, featuring minimal  $I^2t$ , lower operating temperature and watts loss
- CSA Certified and Component Acceptance flush end, bolt-on and blade versions
- 690-1250Vac (10-1400A)



#### Ferrule

- Vac/Vdc rated fuses featuring superior cycling capability and low  $I^2t$
- Many with CSA Component Acceptance
- Standard 6x32, 10x38, 14x51, 21x51, 22x58 sizes for use in standard blocks and holders
- 150-2000Vac/150-1000Vdc (0.25-100A)



#### North American

- Vac/Vdc rated blade and flush end fuses featuring low energy  $I^2t$ , low watts loss, superior cycling, low arc voltage and excellent DC performance
- Many with CSA Component Acceptance
- 130-1000Vac/dc (1-4000A)

## Fuse blocks and holders



### Red Spot

- Popular fuse holder for utility and industrial applications
- CSA Certified for installations up to 690Vac/dc and 400 amps
- IP20 finger-safe construction for added safety
- Available with a broad range of Bussmann series fuses



### Safeclip holders

- Fully shrouded for safety and requires no tools for fuse installation
- Rated at 550Vac, versions are available in ratings from 20 to 150 amps
- Front and back stud terminal configurations available to meet application needs
- Available with a broad range of Bussmann series fuses



### DIN-Rail holders

- CH Series modular fuse holders in 1-, 2- and 3-pole versions
- IP20 finger-safe construction with optional open fuse indication
- Comb-bus bars and accessories extend application flexibility
- Available for Class CC and J fuses as well as PV and popular sized IEC ferrule fuses



### Blocks

- DIN-Rail or panel mount modular fuse blocks for ferrule and knifeblade fuses from 1 to 600 amps
- Optional covers provide IP20 finger-safe protection and lockout/tagout capability for added safety
- Available for Class CC, CF CUBEFuse, H(K), J and R fuses, and supplemental and PV fuses

## Power distribution blocks



### Fused blocks

- CSA Certified modular Class J fuse blocks in 100, 200 and 400 amp ratings
- A Bussmann series exclusive - saves up to 50% panel space and 1/3 labor over traditional solutions
- Optional covers provide IP20 finger-safe protection and lockout/tagout capability for added safety



### Finger-safe, high SCCR blocks

- CSA Certified with finger-safe construction improves safety
- Modular construction permits assembly of required poles at point of use
- Small footprint with up to 200kA SCCR and 760 amps saves space and helps achieve high assembly SCCR for code compliance

### Open blocks

- Popular open blocks in 1-, 2- and 3-pole constructions up to 310 amps
- High 200kA SCCR helps achieve high assembly SCCR for code compliance
- Available with a covers for added safety



## Electrical gear



### Quik-Spec™ Coordination Panelboard

- cULus Listed to CSA Standard 22.2 No.29 makes it easy to address CEC selective coordination requirements
- For systems up to 600Vac, the 20-inch wide compact size is 40% smaller than traditional fusible panelboards with SCCR ratings up to 200kA, 400A mains and 100A branch circuits
- Horsepower rated branch disconnects available in 1-, 2- and 3-pole versions with ampacity rejection feature that helps prevent overfusing
- Utilizes Bussmann series finger-safe current-limiting Class CF time-delay or fast-acting CUBEFuse™ with Class J electrical performance
- Available in NEMA 1 wall or flush mount, or NEMA 3R enclosures
- Optional Class I, Division 2 compliant enclosures available for hazardous locations
- All constructions in a NEMA 1 enclosure can be ordered to ship within 10 business days

## Disconnect switches



### Compact Circuit Protectors (CCP)

- 1-, 2- and 3-pole versions for Class CC, midget and CUBEFuse™ up to 600Vac and 100 amps
- Compact size saves panel space with up to 200kA SCCR to help achieve high assembly SCCR
- Finger-safe with lockout/tagout capability for added safety and cULus Listed to CSA Standard 22.2 No. 4-04 and No. 14.05
- Horsepower rated for motor disconnect



### Rotary disconnects

- CSA C22.2 No. 4 and C22.2 No. 14 fused and non-fused switches up to 1200 amps
- Fused versions use readily available Class CC, J or L fuses
- Open and enclosed versions with popular models available for shipment within 24 hours
- Complete line of accessories to facilitate application and installation
- Up to 200kA SCCR helps achieve high assembly SCCR



### Safety switches

- Industry standard flange handle operation, mechanically interlocked door with lockout/tagout provisions and clear polycarbonate deadfront for added safety
- 3- pole AC safety switch utilizes Class CF CUBEFuse with ampacity rejection at 30, 60 and 100 amps to help prevent overfusing, high 200kA SCCR assembly rating and is cUL Listed to CSA C22.2 NO. 4-M89
- 1-pole DC safety switch available in fuse and non-fused versions up to 200 amps and 600Vac. Fused version uses Class R fuses or PVS-R fuses for PV applications.

## Surge Protective Devices (SPDs)



### Type 2 Listed

- CSA Certified BSPD and SurgePOD™ HEAVY DUTY SPDs are available with surge current capacities up to 400kA with *easyID*™ LED status indicators that show protection status at a glance
- High capacity BSPD SPDs are available for Wye and Delta systems up to 600Vac in NEMA 1 and 4X enclosures with optional EMI/RFI filtering, remote contact signaling and surge counter
- SurgePOD HEAVY DUTY is available for single-phase, split phase, Wye (up to 347/600V) and Delta (up to 480V) systems in a standard NEMA 4X enclosure



### Type 2 Recognized

- DIN-Rail mounting for easy installation with standard local *easyID*™ status indication and optional remote contacts for easy monitoring of system status
- High SCCR black label SPDs with CSA 22.2 No.8-M1986, C233.1-87 in 1- to 4-pole versions up to 600V meet most system needs
- Blue label power and control SPDs in 1- and 2-poles for AC and DC protection
- Yellow label photovoltaic SPDs in 2- and 3-modules for systems up to 1200Vdc
- White label Wind 1- to 4-pole versions up to 1000V meets most system needs
- Red label IEC SPDs in Class I and II and 1-, 2-, 3- and 4-poles meet the needs of worldwide surge protection applications



### Data signal

- Protecting electronic equipment from surges entering on the power wiring and data signal paths provides complete surge protection
- RJ45/Ethernet DIN-Rail mount SPD easily adapts into new or existing installations to protect data and PoE systems
- DIN-Rail mount and inline coaxial cable SPDs for 50Ω and 75Ω cables protect both video and data signals
- 4-Wire DIN-Rail mount versions for protecting twisted pair or other data conductors are available in popular system voltages or a 0-180V version that automatically adjusts to the systems operating voltage, including conductors from systems with differing voltages

## Markets for Bussmann series products: Where the parts meet the application

Bussmann series products	Markets					
	Oil and gas	Mining	Lumber/ pulp and paper	Water/ wastewater	HVAC	Renewable energy
AC fuses	X	X	X	X	X	X
AC/DC surge protective devices	X	X	X	X	X	X
AC/DC safety switches	X	X	X	X	X	X
Branch circuit fuses	X	X	X	X	X	X
Connectors	X	X	X	X	X	
Data signal surge protective devices	X	X	X	X		
DIN-Rail terminal blocks				X	X	
Disconnect switches	X	X	X	X	X	
Fuse holders and blocks	X	X	X	X	X	X
High speed fuses	X	X	X	X		X
IEC and BS Standard fuses	X	X	X			
Medium voltage fuses	X	X	X	X	X	
Modular fuse holders	X	X	X	X	X	X
Photovoltaic fuses						X
PV surge protective devices						X
Power distribution blocks	X	X	X	X	X	
Power distribution fuse blocks	X	X	X	X	X	
Services	X	X	X	X	X	X
Solar string protectors						X
Supplemental fuses	X	X	X	X	X	X

### Online resources

Visit [Eaton.com/bussmannseries](http://Eaton.com/bussmannseries) for the latest in new product introductions and more:

- Product catalogs and profiles
- Product data sheets
- Application and technical references

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