

**Fuses Made Simple™**

**BUSSMANN**  
SERIES



**The easiest and fastest way to  
select and specify the right fuse**



**EATON**

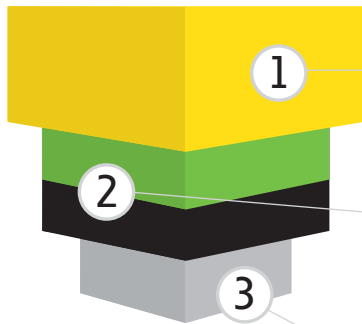
*Powering Business Worldwide*

A factory setting with a long conveyor belt of yellow trays moving through machinery. The trays are arranged in a long line, and the machinery is visible in the background. The text "Fuse selection made simple" is overlaid on the image.

# Fuse selection made simple

# Fuses Made Simple™ with Bussmann™ series fuses

## Three tiers of protection help speed up specification and selection



Each tier of protection offers distinct levels of performance benefits.

**Ultimate protection** – The best worry-free protection in virtually any application. Unique dual-element construction delivers a powerful combination of all performance options in one fuse - fast short-circuit protection, current limitation, and time-delay performance with up to 300 kA interrupting ratings.

**Advanced protection** – Application specific protection for sensitive devices and critical components or motors and transformers. Choose between fast short-circuit, current limiting performance or energy efficient, current limiting, time-delay performance based on the application. Featuring 200 kA interrupting ratings.

**Basic protection** – Basic single-element protection for service, feeder and branch circuit applications. Featuring up to 100 kA interrupting ratings.

## Four fuse families make fuse selection and replacement easy

Each fuse family is categorized by key protection characteristic and performance benefits.

### Ultimate protection

- Low-Peak™ (yellow) - 50% more protection than any other listed fuse\*

### Advanced protection

- Fusetron™ (green) - 23% more energy efficient\*\*\* and the best time-delay performance
- Limitron™ (black) - 10x better current limitation than basic circuit breakers or fuses\*\*

### Basic protection

- General purpose (gray) - Basic circuit protection



## QuikShip™ Service - get the fuse you need, when you need it



- The Bussmann series QuikShip Everyday Service assures the most common part numbers are in stock and ship within 24 hours. In fact, 90% of our orders are shipped the same day.
- Emergency and after-hours orders are possible with Bussmann series QuikShip Emergency Service. Orders are taken 24 hours a day, 365 days a year and product can be placed on the next flight out. Call 314-995-1342.

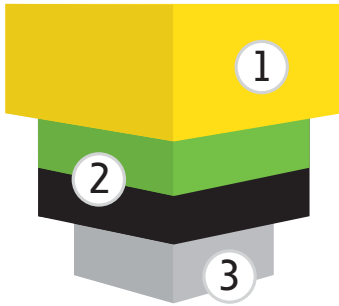
\* 50% higher IR (300kA) than any other UL and CSA Listed Fuse. Includes Class J, L and R fuses.

\*\* Does not include current limiting circuit breakers or current limiting fuses. Protection determined by comparing published values for let-through for Class CC, J, R, and T fuses versus a symmetrical RMS waveform at 200kA.

\*\*\* Test results are based on weighted sales volume of FUSETRON and Ferraz Shawmut (Mersen) fuses by selected amp and volt rating combination. Next leading brand refers to Ferraz Shawmut based on third-party fuse market share data for a twenty-seven month period (July 2008 through September 2010).

# Three tiers of protection

Follow the **tiers of protection** to find the right level of protection for your application



The four **Fuses Made Simple** families are grouped into three tiers of protection to meet the needs of any application.

When you move up to the next level of protection, you can get enhanced performance compared to the fuses in the lower tier. For example, Fusetron fuses can replace your general purpose fuses in branch circuit applications and Low-Peak can be used in any application, giving you worry free, enhanced performance.

	LOW-PEAK™	FUSETRON™	LIMITRON™	GENERAL
<b>1 Ultimate protection</b>				
Industry's only UL® and CSA® listed fuse with up to 300 kA interrupting rating	✓			
Combines Limitron fast short-circuit protection and Fusetron dual-element time-delay for ultimate protection	✓			
Best in class Arc Flash Protection in all applications reduces hazard to personnel	✓			
Reduce inventory up to 33% by replacing General Purpose, Limitron, and Fusetron with Low-Peak fuses	✓			
Consistent 2:1 selective coordination ratios for all Low-Peak fuses	✓			
<b>2 Advanced protection</b>				
Dual-element time-delay allows for superior protection of motors and transformers	✓	✓		
23% more energy efficient than the next leading brand***	✓	✓		
Best time-delay performance	✓	✓		
200 kA interrupting rating allows for use in virtually any application	✓	✓	✓	
Fast short-circuit protection of critical devices or loads	✓		✓	
Arc flash protection in selected applications reduces hazard to personnel	✓		✓	
10x better current limitation on average compared to basic circuit breakers and fuses**	✓		✓	
<b>3 Basic protection</b>				
Meets basic requirements for service, feeder, and branch circuit protection	✓	✓	✓	✓

# Four fuse families

## Low-Peak



**Delivers 50% more protection than any other listed fuse\***  
Ultimate protection for any application

- Industry's only UL and CSA listed fuse with a 300 kA interrupting rating allows for simple, worry-free installation in virtually any application
- Fast short-circuit protection and dual element, time-delay performance for ultimate protection
- Consistent 2:1 coordination ratios for all Low-Peak fuses make selective coordination easy
- Broad fuse family including Class CC, J, L, and R

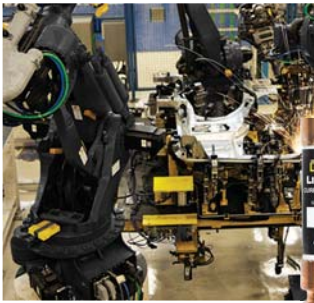
## Fusetron



**23% More Energy Efficient\*\*\* and the Best Time-Delay Performance\*\*\***  
Advanced protection and save more money

- FUSETRON fuses are on average 23% more energy efficient than the next leading brand\*\*
- Dual-element feature provides the best time-delay performance
- Allows for closer sizing to load and better equipment protection
- Ideal for protection of motors and transformers
- Class RK5 fuses with 200 kA interrupting rating

## Limitron



**10x better current limitation than basic circuit breakers or fuses\*\***  
Advanced protection for sensitive devices and critical components

- Provides short circuit protection that is on average 10x faster than basic circuit breakers or fuses\*\*
- Fast-acting fuses help prevent equipment damage caused by short-circuit events
- Ideal for critical components in industrial or commercial applications
- Class CC, J, L, R and T fuses with 200 kA interrupting rating

## General purpose



**Basic circuit protection**  
Basic overcurrent protection

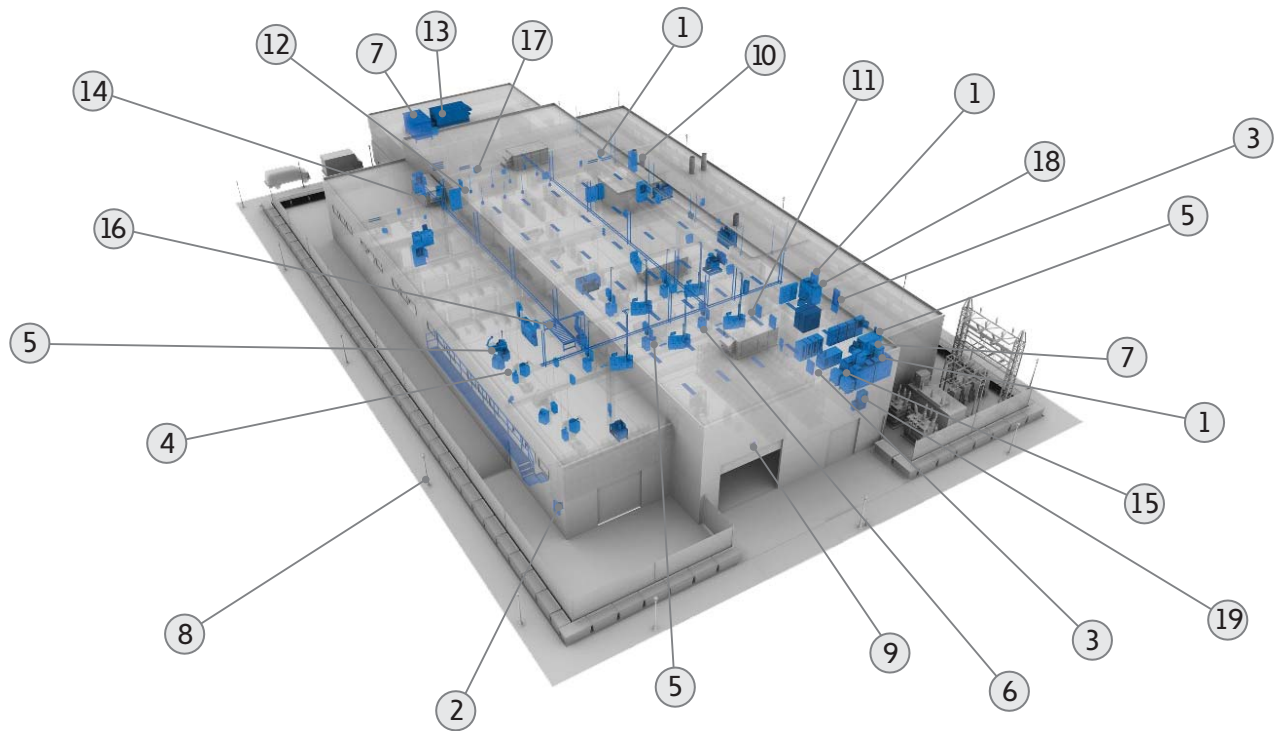
- Meets basic NEC®, CEC, UL and CSA requirements for service, feeder and branch circuit protection
- Class H/K and G fuses with up to 100 kA interrupting rating

\* 50% higher IR (300kA) than any other UL and CSA Listed Fuse. Includes Class J, L and R fuses.

\*\* Does not include current limiting circuit breakers or current limiting fuses. Protection determined by comparing published values for let-through for Class CC, J, R, and T fuses versus a symmetrical RMS waveform at 200kA.

\*\*\* Test results are based on weighted sales volume of FUSETRON and Ferraz Shawmut (Mersen) fuses by selected amp and volt rating combination. Next leading brand refers to Ferraz Shawmut based on third-party fuse market share data for a twenty-seven month period (July 2008 through September 2010).

# Simplify fuse selection by application



Industrial and commercial applications		LOW-PEAK	FUSETRON	LIMITRON	GENERAL
1	Service, feeder and branch circuit protection	✓	✓	✓	✓
2	Interior lighting	✓	✓	✓	
3	Distribution panels	✓	✓	✓	
4	Disconnect switches	✓	✓	✓	
5	Motor/motor control center	✓	✓		
6	Capacitors	✓	✓		
7	Transformers	✓	✓		
8	Outdoor lighting	✓		✓	
9	Emergency lighting	✓		✓	
10	Electric heat	✓		✓	
11	Welding circuits	✓		✓	
12	Plant lighting	✓		✓	
13	HVAC chillers/blowers	✓			
14	Forklift battery charging station	✓			
15	Emergency generator	✓			
16	Conveyor system	✓			
17	UPS backup power supplies	✓			
18	Switchboards	✓			
19	Elevator control centers	✓			

# Easy fuse selection by family

## Ultimate protection

### CLASS RK1



LPN-RK-SP   LPN-RK   LPS-RK-SP   LPS-RK

### CLASS J



LPJ   LPJ

### CLASS L



KRP-C

### CLASS CC



LP-CC

LOW-PEAK

## Advanced protection

### CLASS RK5



FRN-R   FRN-R   FRS-R   FRS-R

FUSETRON

## Advanced protection

### CLASS RK1



KTN-R   KTN-R   KTS-R   KTS-R

### CLASS J



JKS   JKS

### CLASS L



KTU   KLU

### CLASS T



JJN   JJN   JJS   JJS

### CLASS CC



FNQ-R   KTK-R

LIMITRON

## Basic protection

### CLASS H/K



NON   NON   NOS   NOS

### CLASS G



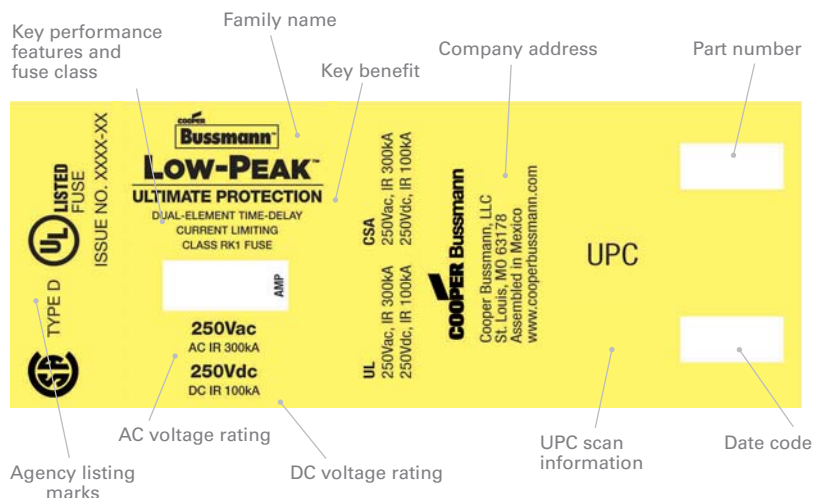
SC   SC

GENERAL

# Speed up fuse replacement

## Color-coded by family

Each fuse label has a unique identifying color representing the family it belongs to. When it's time to replace a fuse, Bussmann series products makes it easier to search for the replacement. When a "yellow fuse" needs replacing, now you can narrow your search by looking for only the "yellow fuses" in your crib.

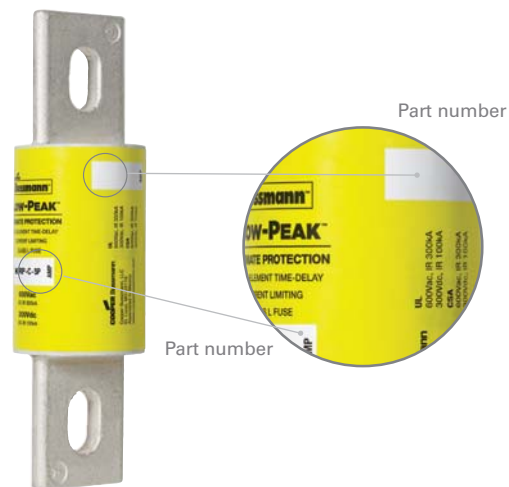


## Consistent look for each label

Every fuse label now has a consistent look. Critical fuse information is presented in an easy-to-read format across the entire Bussmann UL low voltage portfolio to help speed replacement.

## Easy to find part numbers

To ensure you can easily find the part number when you need to replace fuses, the new label design has the part number located in multiple places of large body size blade fuses. With this updated look, you can easily find the important information regardless of the angle in which the fuse is installed.





# Enhance safety and reliability while reducing fuse inventory



## Low-Peak Upgrade program

Eaton's Bussmann series Low-Peak Upgrade program leverages our ultimate protection fuses to deliver enhanced safety, improved system reliability and a simplified inventory.

With just three simple steps, it's easier than ever to improve your circuit protection while reducing your fuse inventory and cost. What's more, you'll save time and increase productivity - all by using Low-Peak fuses.

Let our team of experts walk you through the audit, analysis and implementation of a Low-Peak Upgrade and start realizing savings today.

### Enhance safety

- Superior current-limitation helps reduce arc flash hazards.
- Interrupting ratings up to 300kA for high fault currents.
- Helps achieve code compliance with OSHA, NFPA® and IEEE®.

### Improve system reliability

- Type 2 "no damage" motor starter protection reduces downtime.
- Optional fuse indication to speed troubleshooting.
- Easily meet selective coordination requirements with 2:1 amp ratio with any fuse in the Bussmann series Low-Peak family.

### Simplify inventory

- One Bussmann series Low-Peak fuse can replace multiple fuses in a variety of applications.

In just three simple steps, our team of experts will guide you through the Low-Peak Upgrade program:

- 1 Audit**
- 2 Analyze**
- 3 Implement**

To get started, visit [www.cooperbussmann.com/lowpeakupgrade](http://www.cooperbussmann.com/lowpeakupgrade)

Throughout the Bussmann series Low-Peak Upgrade process, you'll have a dedicated team that includes a Bussmann series product authorized distributor and sales representative. Together, they will walk you through the three steps of the program, making it as easy and effortless for you as possible.



# Complementary products

The broad portfolio of Bussmann series products include more than just UL low voltage fuses. Visit [Eaton.com/bussmannseries](http://Eaton.com/bussmannseries) to learn more.

## Fuse blocks, holders and PDBs



Modular knifeblade fuse blocks



Power distribution blocks



Compact modular fuse holders

## Disconnect switches and safety switches



Fused rotary disconnect switches



Quik-Spec™ safety switches



Compact Circuit Protector

## Additional fuse portfolio



High speed fuses



Medium voltage fuses



CUBEFuses™

## Surge protection



Data signal surge



Type 1 SurgePOD™ surge protective devices



DIN-Rail surge protective devices

# Customer care



## Customer satisfaction team

Available to answer questions regarding Bussmann series products and services Monday-Friday, 7:00 a.m. – 6:00 p.m. Central Time.

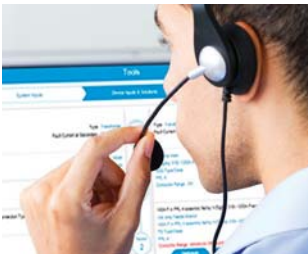
- Toll-free phone: 855-287-7626 (855-BUSSMANN)
- Toll-free fax: 800-544-2570
- E-mail: [Busscustsat@eaton.com](mailto:Busscustsat@eaton.com)



## Emergency and after-hours orders

Next flight out or will call shipment for time-critical needs. Customers pay only standard product price, rush freight charges, and modest emergency service fee. Place these orders through the customer satisfaction team during regular business hours.

- After-hours phone 314-995-1342



## Application engineering team

FUSETech, our team of application engineers is available to provide quality answers to your technical questions or concerns. When you need assistance with Bussmann series products or solutions, give us a call or send us an email. We are available Monday-Friday, 7:00 a.m. – 5:00 p.m. Central Time.

- Toll-free phone: 855-287-7626 (855-BUSSMANN)
- E-mail: [Fusetech@eaton.com](mailto:Fusetech@eaton.com)



## My.Eaton.com

Provides real time product availability, net pricing, order status and shipment tracking. Log onto [My.Eaton.com](http://My.Eaton.com) or call:

- 1-800-468-1705 option #3 for log-in assistance



## 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



## Bussmann toolbox

Visit [Toolbox.bussmann.com](http://Toolbox.bussmann.com) to access resources like:

- Arcing current calculator
- Available Fault Current Calculator (FC<sup>2</sup>)
- OSCAR 2.1 compliance software
- RoHS compliance product search
- SCCR Protection Suite
- Selective Coordination Designer v1.0

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