



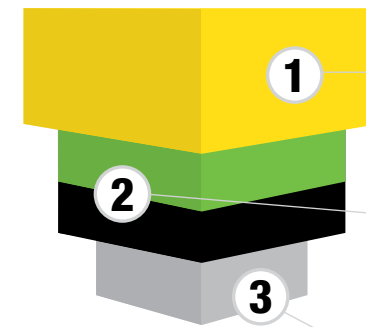
# Fuses Made Simple™

The Easiest and Fastest Way to Select  
and Specify the Right Fuse



# Fuse Selection Made Simple

### 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 300kA 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 200kA interrupting ratings.

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



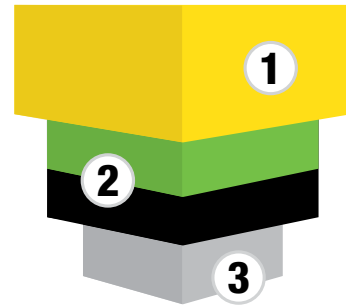
### QuikShip™ Service - Get the Fuse You Need, When You Need It



- The Bussmann 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 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).

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 300kA interrupting rating	✓			
Combines Limitron fast short-circuit protection and Fusestron 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 Fusestron 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	✓	✓		
200kA 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	✓	✓	✓	✓

## 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 300kA 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

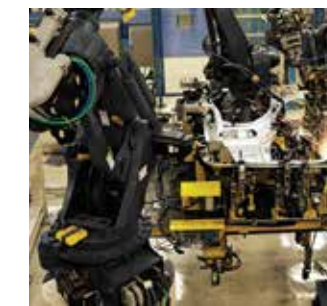
## FUSETRON™



**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 200kA 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 200kA interrupting rating

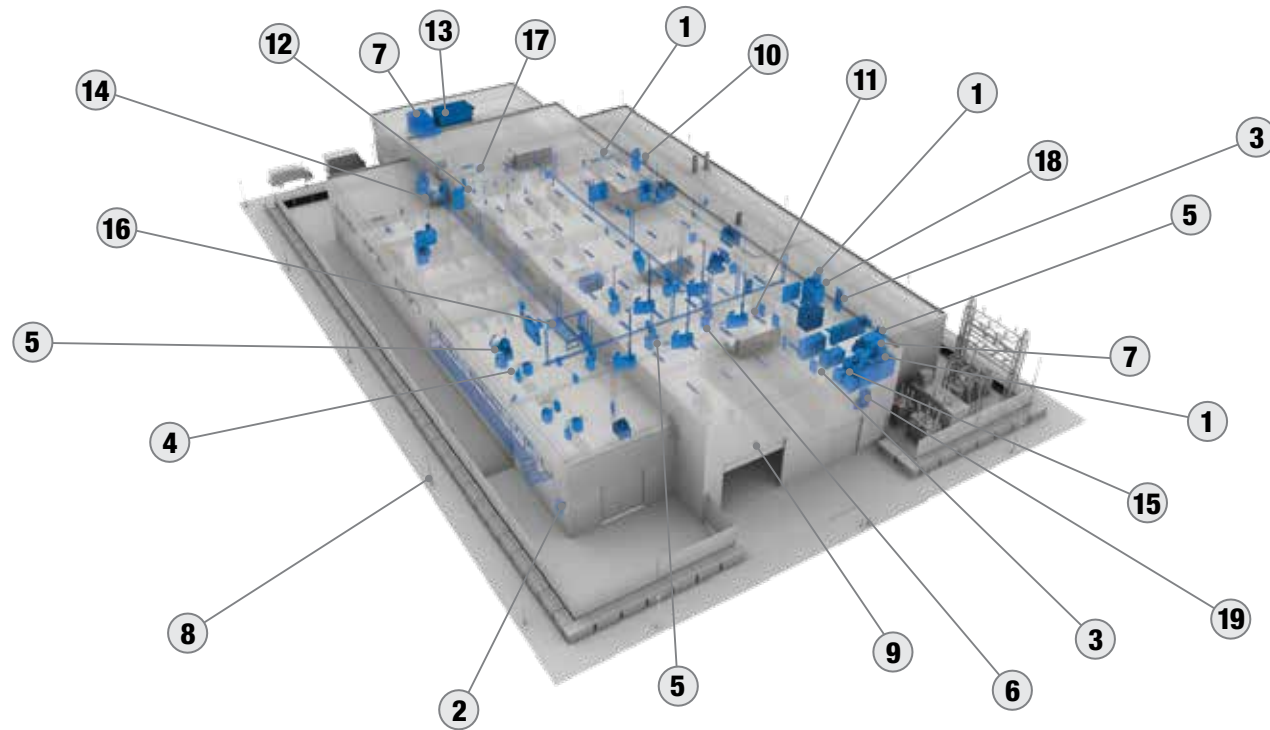
## GENERAL PURPOSE



**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 100kA interrupting rating

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 \*\* 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).



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	✓			

### 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

## 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 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.

<p><b>LOW-PEAK™</b></p>  <ul style="list-style-type: none"> <li>LPN-RK</li> <li>LPS-RK</li> <li>KRP-C</li> <li>LP-CC</li> <li>LPJ</li> </ul>	<p><b>FUSETRON™</b></p>  <ul style="list-style-type: none"> <li>FRN-R</li> <li>FRS-R</li> </ul>
<p><b>LIMITRON™</b></p>  <ul style="list-style-type: none"> <li>FNQ-R JJS</li> <li>KTK-R KLU</li> <li>KTN-R KTU</li> <li>KTS-R JKS</li> <li>JJN</li> </ul>	<p><b>GENERAL</b></p>  <ul style="list-style-type: none"> <li>NON</li> <li>NOS</li> <li>SC</li> </ul>

Bussmann is the industry leader in circuit protection solutions. With a commitment to innovation and technical solutions, Bussmann continues to develop tools and resources that provide customers with multiple ways to improve efficiency and productivity.



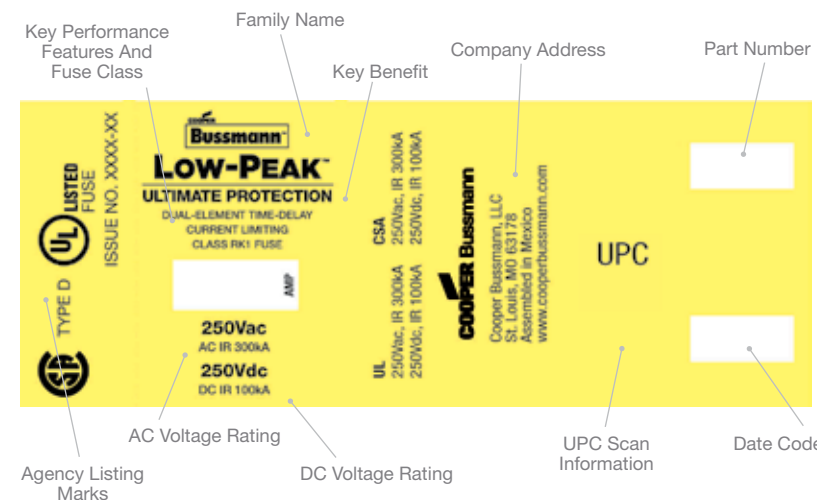
## Low-Peak™ Upgrade Program

The Low-Peak Upgrade Program allows you to simplify fuse inventory by consolidating an extensive stock of fuses and upgrading to Ultimate Protection for your equipment.

**Reduce Inventory** - Low-Peak fuses can replace up to 33% of your inventory, saving time and money associated with ordering and stocking fuses.

**Reduce Downtime** - Upgrading to the ultimate level of protection means 50% more protection than any other listed fuse\*. Low-Peak fuses help reduce downtime, allowing your equipment and personnel to operate at optimal levels.

**Reduce Hazards** - The protection benefits of Low-Peak fuses include fast current limitation, which helps to reduce incident energy when an arc flash occurs.



## 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.

## Digital Tools Provide Instant Expertise

Bussmann offers a broad portfolio of mobile and online tools, making it easy to find the information you need, when you need it.

### Mobile Applications:

- **FuseFinder** – Comprehensive cross-reference tool
- **FC<sup>2</sup>** - Available fault current calculator

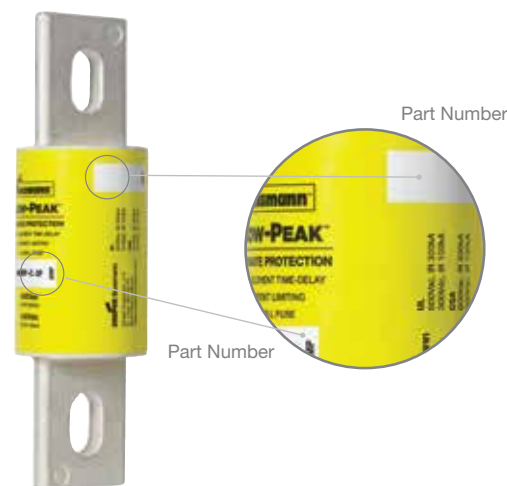
### Online Web Tools:

- **Competitor Cross-Reference Tool** – Find crosses to nearly every Bussmann part
- **Available Fault Current Calculator** – Calculate short-circuit current ratings online
- **Fuse Selection Tool** – Help determine the best fuse for your application
- **Digital Catalogs** – View product information on-the-go
- **Training Videos** – Quickly learn the benefits of new Bussmann products



## 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.



## Technical Know-How and Expert Customer Support

Providing industry leading customer service and technical expertise, the Bussmann team offers solutions to customer concerns.

**Field Application & Sales Engineers** – Our team of experts has an average of over 20 years industry experience from concept to creation. We work closely with you to help design or upgrade electrical systems.

**Applications Engineering** – Using Bussmann products? Have a question? For technical questions and specific "how-to" product related information, contact our FUSETECH team to help with step-by-step guidance. Call 855-BUSSMANN.

**Customer Satisfaction** –The Bussmann customer satisfaction team will quickly assist with general product inquiries and product ordering information. Call 855-BUSSMANN.

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

In addition to the UL low voltage fuses, Bussmann offers a broad portfolio of protection solutions. Visit [www.cooperbussmann.com](http://www.cooperbussmann.com) 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 Satisfaction Team**

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

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



**Application Engineering Team**

Technical assistance is available to all customers. Application support is available Monday-Friday, 7:00 a.m. – 5:00 p.m. Central Time. Contact:

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



**C<sup>3</sup> – the Enhanced, Online Cooper Customer Center**

Provides real time product availability, net pricing, order status and shipment tracking for: B-Line, Bussmann, Crouse-Hinds, Lighting, Power Systems & Wiring Devices. Call 877-995-5955 for log-in assistance. Available at:

- [www.cooperc3.com](http://www.cooperc3.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. For after-hours, contact:

- After-hours phone 314-995-1342



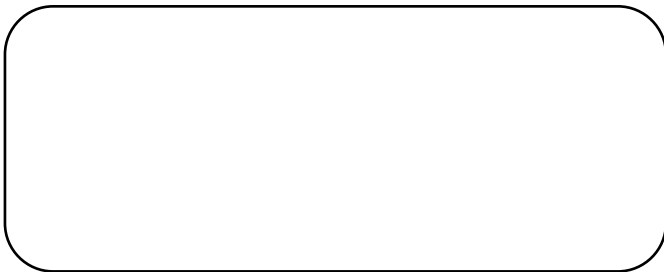
**Online Resources**

Visit [www.cooperbussmann.com](http://www.cooperbussmann.com) for the following resources:

- Product search, cross-reference and technical materials
- Solutions centers for information on topical issues including arc flash, selective coordination and short-circuit current rating
- Technical tools, like our available fault current calculator
- Where to purchase Bussmann product

**Bussmann**  
St. Louis, MO 63178  
855.287.7626 (855-BUSSMANN)  
[www.cooperbussman.com](http://www.cooperbussman.com)

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