

**Fusetron™ energy efficient FRN-R fuses**

Bussmann series Fusetron cartridge fuses are 23% more energy efficient\* and offer the best time-delay performance. Their dual-element feature allows closer sizing to load for superior protection of motors and transformers. These Class RK5 fuses with a 200 kA interrupting rating can be used in a broad range of applications.

When sized correctly, they help protect motors from burnout caused by overloads or single-phasing. The time-delay feature allows the initial startup current surge for typical motors to pass, but opens prior to motor burnout when longer, dangerous overloads are present. In addition, the dual-element design opens in as little as 0.004 second if the fuse experiences short-circuit conditions. All fuses are UL Listed Class R (IR: 200 kA). Groove in end cap or notch in knife blade permit the fuse to be used in only Class H, Class K or Class R fuse blocks.

\* 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).

**FRN-R**

**250 Vac non-indicating dual-element, time-delay Class RK5 fuses**

See page 48 for available assortments.



Amps	Catalog no.*	Retail pack**
1	FRN-R-1	—
2	FRN-R-2	—
3	FRN-R-3	—
4	FRN-R-4	—
5	FRN-R-5	—
6	FRN-R-6	—
6-1/4	FRN-R-6-1/4	—
7	FRN-R-7	—
8	FRN-R-8	—
10	FRN-R-10	BP/FRN-R-10
12	FRN-R-12	—
15	FRN-R-15	BP/FRN-R-15
17-1/2	FRN-R-17-1/2	—
20	FRN-R-20	BP/FRN-R-20
25	FRN-R-25	BP/FRN-R-25
30	FRN-R-30	BP/FRN-R-30
35	FRN-R-35	BP/FRN-R-35
40	FRN-R-40	BP/FRN-R-40
45	FRN-R-45	BP/FRN-R-45
50	FRN-R-50	BP/FRN-R-50
60	FRN-R-60	BP/FRN-R-60
70	FRN-R-70	—
75	FRN-R-75	—
80	FRN-R-80	—
90	FRN-R-90	—
100	FRN-R-100	BP/FRN-R-100
150	FRN-R-150	—
200	FRN-R-200	—

\* Refer to packaging spec file for individual fuse packaging options.  
 \*\* 10 to 60 amp fuses, 2 per pack; 100 amp fuse, 1 fuse per pack, 5 packs per shelf carton.

**FRN-R fuses with easyID blown fuse indication**

Featuring the same energy efficiency and electrical performance characteristics as their green label non-indicating versions, easyID FRN-R fuses offer consumers the additional advantage of blown fuse status that makes finding the open fuse easier and faster.

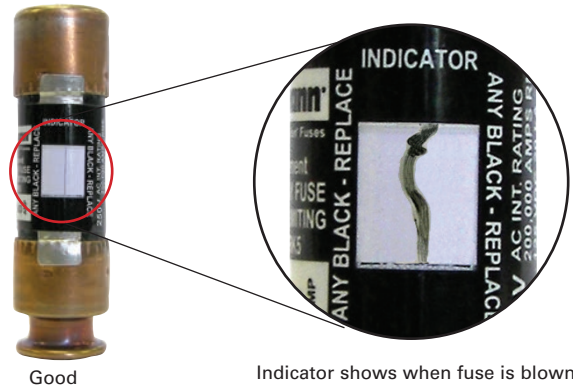
**FRN-R**

**250 Vac indicating dual-element, time-delay Class RK5 fuses**

Amps	Catalog no.*	easyID retail pack**
15	FRN-R-15ID	BP/FRN-R-15ID
20	FRN-R-20ID	BP/FRN-R-20ID
30	FRN-R-30ID	BP/FRN-R-30ID
40	FRN-R-40ID	BP/FRN-R-40ID
50	FRN-R-50ID	BP/FRN-R-50ID
60	FRN-R-60ID	BP/FRN-R-60ID

\* Refer to packaging spec file for individual fuse packaging options.  
 \*\* 2 Fuses per pack, 5 packs per shelf carton.

**easyID blown fuse indication**



Good

Indicator shows when fuse is blown