



Expertise Applied | Answers Delivered

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To whom it may concern,

The Littelfuse LPS series Elevator Shunt-trip disconnect switches are designed and UL certified to be used with UL Class J fuses. Littelfuse has been building panels to this specification for over 20 years with great success.

The UL 248-8 "Class J" standard was created to offer the same electrical performance as the UL Class RK 1 fuse, but in a smaller physical package.

Verification of Overload Operation for UL 248-8 (Class J) and UL 248-12 (Class R) are both in accordance to UL 248-1, Table 4. The time-delay requirements for both standards are the same and are tested at $5.0 I_n$ and have an opening time greater than 10 seconds.

Peak let-through current and clearing I^2t characteristics for UL 248-8 (Class J) and UL 248-12 (Class R) must perform in accordance with table A of their respective UL standard. Below is a side-by-side comparison of the maximum peak let-through current and clearing I^2t limits.

Current rating I_n , A	UL 248-8 Class J		UL 248-12 Class RK1	
	At 200 kA		At 200 kA	
	Peak let-through current, A	I^2t , ampere squared seconds	Peak let-through current, A	I^2t , ampere squared seconds
30	12,000	7,000	12,000	11,000
60	16,000	30,000	16,000	50,000
100	20,000	80,000	20,000	100,000
200	30,000	300,000	30,000	400,000
400	45,000	1,100,000	50,000	1,600,000
600	70,000	2,500,000	70,000	4,000,000

As you can see, UL Class J fuses meet or exceed the performance requirements of UL Class RK1 fuses. Any system requiring the use of RK1 fuses will also be adequately protected with the use of Class J fuses. This is why our LPS series elevator shunt-trip disconnect switches are only offered with Class J fuses.

Please feel free to contact the Littelfuse Technical Support Team via email at techline@littelfuse.com or 800-TEC-FUSE if you need further assistance.

Regards,



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