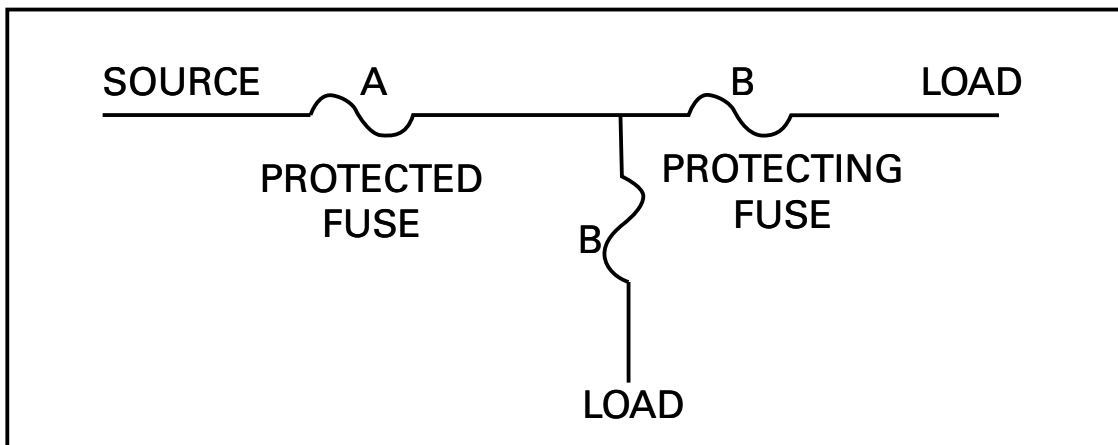


ELF™ Current-limiting dropout fuse coordination tables with protecting fuse links



One important criteria in selecting a fuse is that it must coordinate well with upline devices. For two fuses in series, the downline fuse is called the protecting fuse while the upline fuse is called the protected fuse as shown above. The downline fuse is protecting the upline fuse by operating for overcurrent conditions which are downline of the protecting fuse. This keeps the upline fuse intact which minimizes the number of customers who experience an outage. The following tables give the maximum current levels to which the Eaton Cooper Power series K-, T-, S- and D-Link fuses (as the protecting fuse) will coordinate with the Eaton Cooper Power series ELF Fuse (as the protected fuse) using a 75% margin of protection.

Table 1. Maximum fault current (A) to which protected ELF and protecting K-link fuse will coordinate

Protecting K-link fuse current rating (A)	Protected ELF fuse current rating (A)					
	12	18	20	15	30	40
1	305	360	410	490	595	835
2	305	360	410	490	595	835
3	300	360	410	490	595	835
6	250	315	375	475	595	830
8	200	265	330	430	560	825
10	–	215	280	370	510	790
12	–	–	250	330	465	735
15	–	–	–	285	420	655
20	–	–	–	–	355	560
25	–	–	–	–	–	510

Table 2. Maximum fault current (A) to which protected ELF and protecting T-link fuse will coordinate

Protecting T-Link fuse current rating (A)	Protected ELF fuse current rating (A)					
	12	18	20	15	30	40
1	305	360	410	490	595	835
2	305	360	410	490	595	835
3	290	355	410	490	595	835
6	170	225	295	395	540	820
8	–	175	235	320	460	740
10	–	–	205	280	405	630
12	–	–	–	230	350	550
15	–	–	–	–	300	470
20	–	–	–	–	–	410

Table 3. Maximum fault current (A) to which protected ELF and protecting D-link fuse will coordinate

Protecting D-link fuse current rating (A)	Protected ELF fuse current rating (A)					
	12	18	20	15	30	40
1	54	115	165	245	365	560
1.5	54	115	165	245	365	560
2	34	105	165	245	365	560
3	34	105	165	245	365	560
4	–	–	50	88	365	560
5	–	–	50	88	365	560
7	–	–	50	88	365	560
10	–	–	40	70	365	560
15	–	–	–	55	365	560
20	–	–	–	–	365	560

Table 4. Maximum fault current (A) to which protected ELF and protecting S-link fuse will coordinate

Protecting S-link fuse current rating (A)	Protected ELF fuse current rating (A)					
	12	18	20	15	30	40
3	165	220	290	390	550	755
5	–	175	235	320	455	755
7	–	–	–	240	355	555
10	–	–	–	–	90	445
15	–	–	–	–	–	120

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