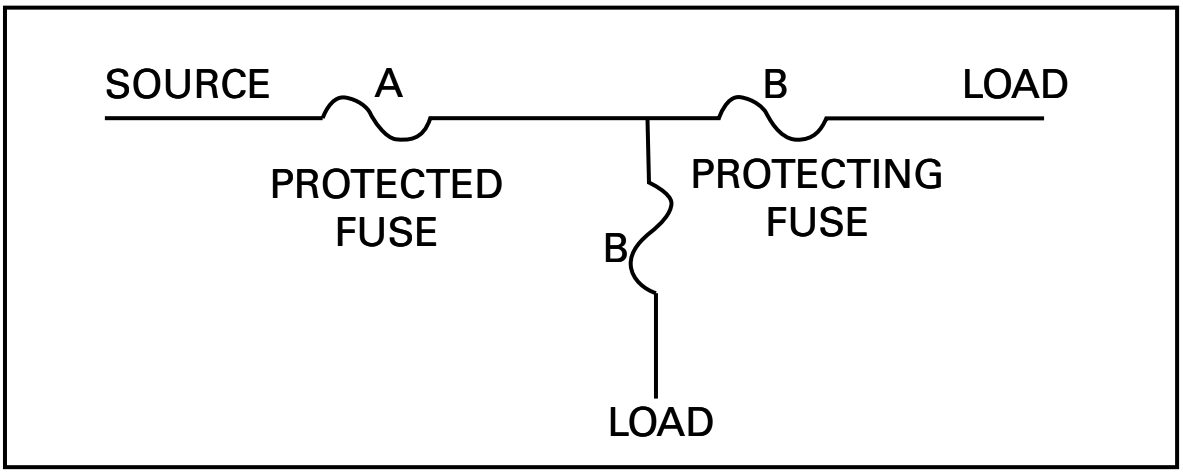
Fusing Equipment
**TD132024EN**
Effective September 2017
Supersedes June 1993 (R240-66-2)
COOPER POWER SERIES

# ELF™ Current-limiting dropout fuse coordination tables with protected fuse links




Powering Business Worldwide

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 ELF fuse (as the protecting fuse) will coordinate with the Cooper Power series K-, T- and S-links (as protected fuses) using a 75% margin of protection.

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

| Protecting ELF fuse current rating (A) | Protected ELF fuse current rating (A) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **40** | **50** | **65** | **80** | **100** | **140** | **200** |
| 6 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 8 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 12 | 55 | 90 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 18 | – | – | 90 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 20 | – | – | 70 | 130 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 25 | – | – | – | 90 | 170 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 30 | – | – | – | – | 130 | 385 | 31000* | 31000* | 31000* | 31000* | 31000* |
| 40 | – | – | – | – | – | 170 | 230 | 350 | 31000* | 31000* | 31000* |

* 31000A at 8.3kV, 20000 at 15.0kV

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

| Protecting ELF fuse current rating (A) | Protected T-link current rating (A) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **40** | **50** | **65** | **80** | **100** | **140** | **200** |
| 6 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 8 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 12 | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 18 | – | – | . | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 20 | – | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 25 | – | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 30 | – | – | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 40 | – | – | – | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* |

* 31000A at 8.3kV, 20000at15.0kV

### Table 3. Maximum fault current (A) to which protected T-link and protecting ELF Fuse will coordinate

| Protecting ELF fuse current rating (A) | Protected S-link current rating (A) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **15** | **20** | **25** | **30** | **40** | **50** | **65** | **80** | **100** | **140** | **200** |
| 6 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 8 | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 12 | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 18 | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 20 | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 25 | – | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 30 | – | – | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* | 31000* |
| 40 | – | – | – | – | – | – | 31000* | 31000* | 31000* | 31000* | 31000* |

* 31000A at 8.3kV, 20000 at 15.0kV

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# ELF™ Current-limiting dropout fuse coordination tables with protected fuse links

**Eaton**
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

**Eaton's Power Systems Division**
2300 Badger Drive
Waukesha, WI 53188
United States
Eaton.com/cooperpowerseries


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For Eaton's Cooper Power series product information call 1-877-277-4636 or visit: www.eaton.com/cooperpowerseries.

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