Fusing Equipment
Technical Data
**TD325003EN**

Effective October 2017
Supersedes November 2009 (R327-40-1)

COOPER POWER SERIES

# Recommended type D link primary fusing for distribution transformers

Delta-connected primary

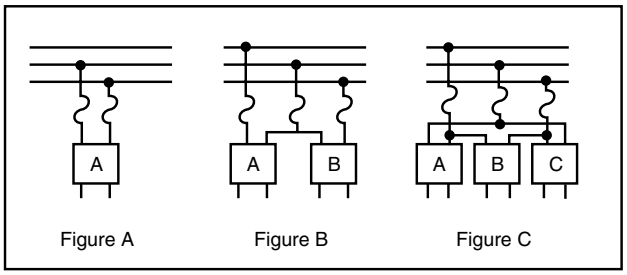


Figure A Figure B Figure C

Wye-connected primary

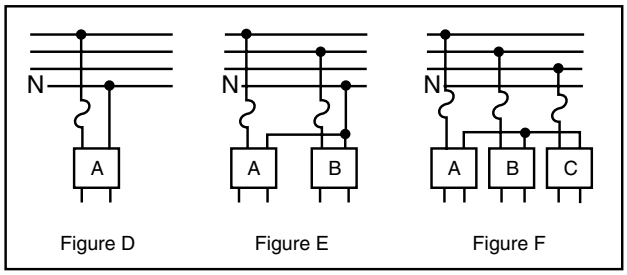


Figure D Figure E Figure F

Powering Business Worldwide

# Recommended type D link primary fusing for distribution transformers

| Transformer size (kVA) | 2400 Δ | | | | 2400/4160Y | | 4800 Δ | | | | 4800/8320Y | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Figures A and B | | Figure C | | Figures D, E and F | | Figures A and B | | Figure C | | Figures D, E and F | |
| | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating |
| 5 | 2.08 | 4 | 3.61 | 5 | 2.08 | 4 | 1.04 | 1.5 | 1.80 | 3 | 1.04 | 1.5 |
| 10 | 4.17 | 7 | 7.22 | 10 | 4.17 | 7 | 2.08 | 4 | 3.61 | 5 | 2.08 | 4 |
| 15 | 6.25 | 10 | 10.80 | 15 | 6.25 | 10 | 3.12 | 5 | 5.42 | 7 | 3.12 | 5 |
| 25 | 10.42 | 15 | 18.05 | – | 10.42 | 15 | 5.21 | 7 | 9.01 | 15 | 5.21 | 7 |
| 37.5 | 15.63 | 20 | 27.05 | – | 15.63 | 20 | 7.81 | 10 | 13.50 | 20 | 7.84 | 10 |
| 50 | 20.80 | – | 36.10 | – | 20.80 | – | 10.42 | 15 | 18.05 | – | 10.42 | 15 |
| 75 | 31.25 | – | 54.20 | – | 31.25 | – | 15.63 | 20 | 27.05 | – | 15.63 | 20 |

| Transformer size (kVA) | 7200 Δ | | | | 7200/12470Y | | 7620/13200Y | | | | 12000 Δ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Figures A and B | | Figure C | | Figures D, E and F | | Figures D, E and F | | Figures A and B | | Figure C | |
| | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating |
| 5 | 0.69 | 1* | 1.20 | 1.5 | 0.69 | 1* | 0.66 | 1* | 0.42 | – | 0.72 | 1 |
| 10 | 1.39 | 2 | 2.40 | 4 | 1.39 | 2 | 1.31 | 2 | 0.83 | 1 | 1.44 | 3 |
| 15 | 2.08 | 4 | 3.61 | 5 | 2.08 | 4 | 1.97 | 4 | 1.25 | 2 | 2.16 | 4 |
| 25 | 3.47 | 5 | 5.94 | 10 | 3.47 | 5 | 3.28 | 5 | 2.08 | 4 | 3.61 | 5 |
| 37.5 | 5.21 | 7 | 9.01 | 15 | 5.21 | 7 | 4.92 | 7 | 3.12 | 5 | 5.42 | 7 |
| 50 | 6.94 | 10 | 12.01 | 20 | 6.94 | 10 | 6.56 | 10 | 4.17 | 7 | 7.22 | 10 |
| 75 | 10.42 | 15 | 18.05 | – | 10.42 | 15 | 9.84 | 15 | 6.25 | 10 | 10.80 | 15 |
| 100 | 13.89 | 20 | 24.00 | – | 13.89 | 20 | 13.12 | 20 | 8.33 | 15 | 14.44 | 20 |

**Note:** Table shows recommended fuse ratings based on the use of Eaton's Cooper Power series Type D Link time current characteristics defined in R240-91-16, January, 1995.

Recommendations provide overload protection (fusing ratio) between 200% and 300% rated load.

$$\text{Fusing Ratio} = \frac{\text{Fuse Min. Melt Current @ 300 sec}}{\text{Transformer Full Load Current}} \times 100$$

* Since this is the smallest link available and does not protect for 300% load, secondary protection is desirable.

| Transformer size (kVA) | 13200 Δ | | | | 14400 Δ | | | | 14400/24940Y | | 19920/34500Y | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Figures A and B | | Figure C | | Figures A and B | | Figure C | | Figures D, E and F | | Figures D, E and F | |
| | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating | Rated amps | Link rating |
| 5 | 0.38 | – | 0.66 | 1* | 0.35 | – | 0.59 | – | 0.37 | 1* | – | – |
| 10 | 0.76 | 1* | 1.31 | 1.5 | 0.69 | 1* | 1.20 | 1.5 | 0.69 | 1* | 0.50 | – |
| 15 | 1.14 | 1.5 | 1.97 | 4 | 1.04 | 1.5 | 1.80 | 3 | 1.04 | 1 | 0.75 | 1 |
| 25 | 1.89 | 3 | 3.28 | 5 | 1.74 | 3 | 3.01 | 5 | 1.74 | 3 | 1.25 | 2 |
| 37.5 | 2.84 | 5 | 4.92 | 7 | 2.61 | 4 | 4.52 | 7 | 2.61 | 4 | 1.87 | 3 |
| 50 | 3.79 | 5 | 6.56 | 10 | 3.47 | 5 | 5.94 | 10 | 3.47 | 5 | 2.50 | 4 |
| 75 | 5.68 | 7 | 9.84 | 15 | 5.21 | 7 | 9.01 | 15 | 5.21 | 7 | 3.75 | 5 |
| 100 | 7.57 | 10 | 13.12 | 20 | 6.94 | 10 | 12.01 | 20 | 6.94 | 10 | 5.00 | 7 |
| 167 | 12.62 | 20 | 21.80 | – | 11.60 | 15 | 20.10 | – | 11.60 | 15 | 8.35 | 10 |

**Note:** Table shows recommended fuse ratings based on the use of Eaton's Cooper Power series Type D Link time current characteristics defined in R240-91-16, January, 1995.

Recommendations provide overload protection (fusing ratio) between 200% and 300% rated load.

$$\text{Fusing Ratio} = \frac{\text{Fuse Min. Melt Current @ 300 sec}}{\text{Transformer Full Load Current}} \times 100$$

* Since this is the smallest link available and does not protect for 300% load, secondary protection is desirable.

| Amp rating | Non-removable buttonhead 23" lead | Removable buttonhead 23" lead |
|---|---|---|
| 1 | FL1D1 | FL3D1 |
| 1.5 | FL1D105 | FL3D105 |
| 2 | FL1D2 | FL3D2 |
| 3 | FL1D3 | FL3D3 |
| 4 | FL1D4 | FL3D4 |
| 5 | FL1D5 | FL3D5 |
| 7 | FL1D7 | FL3D7 |
| 10 | FL1D10 | FL3D10 |
| 15 | FL1D15 | FL3D15 |
| 20 | FL1D20 | FL3D20 |

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