

# Cable Limiters

## 600 Volt Copper Limiters

## K Series



Catalog Symbol: K Series  
 Cable Limiters  
 Interrupting Rating: 200,000 Amperes, RMS Sym.  
 Voltage Rating: 600 Volts

### General Information:

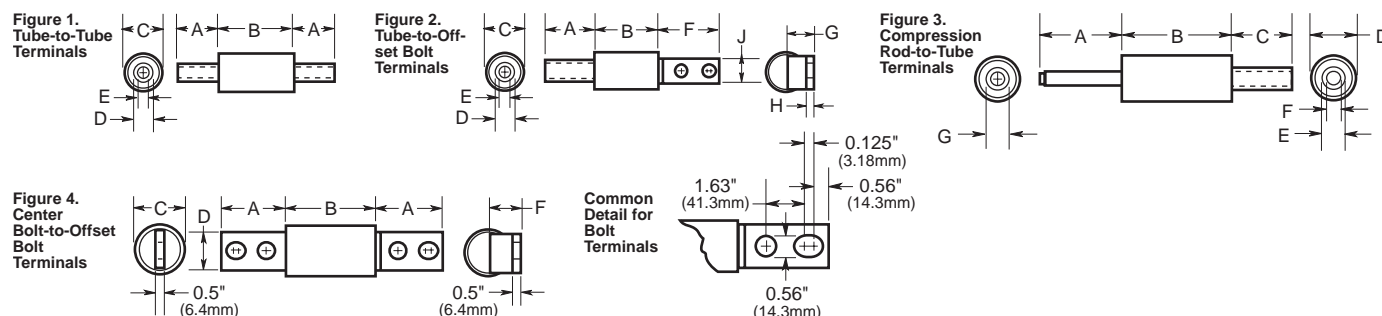
- Selection: unlike fuses, the current-carrying capacity of cable limiters is denoted by cable size rather than amperage.
- For example, a "4/0" limiter will carry the current of a 4/0 cable.
- Buss Cable Limiters help protect cables against short-circuit currents.
- Increase system reliability.
- Under high short-circuit conditions, they can cut off fault currents within one-half cycle (0.008 seconds).
- This fast action reduces insulation damage from the immense heat that is developed by sustained fault current flow (often 30,000, 50,000, 70,000, 150,000 amps magnitude).
- Reduces the high build-up of mechanical forces due to intense magnetic fields.
- Cable limiters help confine damage to the point of the short-circuit. Help stop long-length cable burn-back and striking of multiple arcs.
- Apart from the loss of power and operational shutdown, short-circuits can do devastating damage to conductors.
- The cost of total replacement of cables, particularly when they are buried underground, outweighs the nominal cost of cable limiter protection.
- Without the protection of limiters, under short-circuit conditions, a cable may continue to arc at several points and cause severe damage to components of the system...it does not necessarily burn clear.
- Buss Cable Limiters are short-circuit devices (unresponsive to light cable overloads) with several types of terminal connections to permit easy mechanical connection to a broad range of cable sizes.
- Totally self-contained, static device.
- Unlike the open link-type limiters, there is no venting of ionized gases or explosive action.
- Has stable, unchanging characteristics.
- High interrupting rating.
- Buss Cable Limiters withstand high short-circuit currents.
- Help provide compliance with NEC 110-9 and NEC 230-65.
- KDM, KDR, KDP and KFM copper cable limiters are UL listed under File E990818. For use at 600 V, ac on faults up to 200,000 Amps.

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### Dimensional Data



### Copper Cable Limiter — 600 Volts

| Catalog Symbol   | Cable Size | Dimensions in Inches |       |      |       |       |      |      |      |       |       | Dimensions in Millimeters |      |      |      |      |      |     |      |  |  |
|--|------------|----------------------|-------|------|-------|-------|------|------|------|-------|-------|---------------------------|------|------|------|------|------|-----|------|--|--|
|  |            | A                    | B     | C    | D     | E     | F    | G    | H    | J     | A     | B                         | C    | D    | E    | F    | G    | H   | J    |  |  |
| <b>Tubular Terminals (Figure 1)</b>  |            |                      |       |      |       |       |      |      |      |       |       |                           |      |      |      |      |      |     |      |  |  |
| KCY  | #4         | 1.25                 | 2.88  | 1.06 | 0.31  | 0.25  | —    | —    | —    | —     | 31.8  | 73.0                      | 27.0 | 7.9  | 6.4  | —    | —    | —   | —    |  |  |
| KCZ  | #3         | 1.25                 | 2.88  | 1.06 | 0.34  | 0.28  | —    | —    | —    | —     | 31.8  | 73.0                      | 27.0 | 8.7  | 7.1  | —    | —    | —   | —    |  |  |
| KCA  | #2         | 1.25                 | 2.88  | 1.06 | 0.44  | 0.31  | —    | —    | —    | —     | 31.8  | 73.0                      | 27.0 | 11.1 | 7.9  | —    | —    | —   | —    |  |  |
| KCB  | #1         | 1.25                 | 2.88  | 1.06 | 0.34  | 0.34  | —    | —    | —    | —     | 31.8  | 73.0                      | 27.0 | 11.9 | 8.7  | —    | —    | —   | —    |  |  |
| KCC  | 1/0        | 1.5                  | 2.625 | 1.25 | 0.52  | 0.39  | —    | —    | —    | —     | 38.1  | 73.0                      | 31.8 | 13.1 | 9.9  | —    | —    | —   | —    |  |  |
| KCD  | 2/0        | 1.63                 | 2.625 | 1.25 | 0.44  | 0.70  | —    | —    | —    | —     | 41.3  | 73.0                      | 31.8 | 14.3 | 11.1 | —    | —    | —   | —    |  |  |
| KCE  | 3/0        | 1.63                 | 3.63  | 1.44 | 0.61  | 0.48  | —    | —    | —    | —     | 41.3  | 92.1                      | 36.5 | 15.5 | 12.3 | —    | —    | —   | —    |  |  |
| KCF  | 4/0        | 1.75                 | 3.63  | 1.44 | 0.34  | 0.55  | —    | —    | —    | —     | 44.5  | 92.1                      | 36.5 | 17.5 | 14.0 | —    | —    | —   | —    |  |  |
| KCH  | 250 MCM    | 1.88                 | 3.63  | 1.44 | 0.75  | 0.28  | —    | —    | —    | —     | 47.6  | 92.1                      | 36.5 | 19.0 | 15.1 | —    | —    | —   | —    |  |  |
| KCJ  | 350 MCM    | 2.0                  | 3.63  | 1.63 | 0.88  | 0.70  | —    | —    | —    | —     | 50.8  | 92.1                      | 41.3 | 22.2 | 17.9 | —    | —    | —   | —    |  |  |
| †KCM   | 500 MCM    | 2.88                 | 3.078 | 1.88 | 1.06  | 0.83  | —    | —    | —    | —     | 73.0  | 92.1                      | 47.6 | 27.0 | 21.0 | —    | —    | —   | —    |  |  |
| KCR  | 750 MCM    | 3.5                  | 3.75  | 2.5  | 1.31  | 1.06  | —    | —    | —    | —     | 88.9  | 73.0                      | 63.5 | 33.3 | 27.0 | —    | —    | —   | —    |  |  |
| KCS  | 1000 MCM   | 5.0                  | 3.75  | 2.5  | 1.56  | 1.22  | —    | —    | —    | —     | 127.0 | 95.2                      | 63.5 | 39.7 | 31.0 | —    | —    | —   | —    |  |  |
| <b>Tubular Terminal and Offset Bolt-Type Terminal (Figure 2)</b>           |            |                      |       |      |       |       |      |      |      |       |       |                           |      |      |      |      |      |     |      |  |  |
| KQV  | #12        | 1.25                 | 2.88  | 1.06 | 0.19  | 0.125 | 3.31 | 0.72 | 0.19 | 1.125 | 31.8  | 73.0                      | 27.0 | 4.8  | 3.2  | 84.1 | 18.3 | 4.8 | 28.6 |  |  |
| KQT  | #10        | 1.25                 | 2.88  | 1.06 | 0.23  | 0.14  | 3.31 | 0.72 | 0.19 | 1.125 | 31.8  | 73.0                      | 27.0 | 6.0  | 3.6  | 84.1 | 18.3 | 4.8 | 28.6 |  |  |
| KFZ  | #8         | 1.25                 | 2.88  | 1.06 | 0.23  | 0.16  | 3.31 | 0.72 | 0.19 | 1.125 | 31.8  | 73.0                      | 27.0 | 6.0  | 4.0  | 84.1 | 18.3 | 4.8 | 28.6 |  |  |
| KIG  | #6         | 1.25                 | 2.88  | 1.06 | 0.31  | 0.16  | 3.31 | 0.72 | 0.19 | 1.125 | 31.8  | 73.0                      | 27.0 | 7.9  | 4.0  | 84.1 | 18.3 | 4.8 | 28.6 |  |  |
| KDY  | #4         | 1.25                 | 2.88  | 1.06 | 0.31  | 0.25  | 3.31 | 0.72 | 0.19 | 1.125 | 31.8  | 73.0                      | 27.0 | 7.9  | 6.4  | 84.1 | 18.3 | 4.8 | 28.6 |  |  |
| KDA  | #2         | 1.25                 | 2.88  | 1.06 | 0.44  | 0.31  | 3.31 | 0.72 | 0.19 | 1.125 | 31.8  | 73.0                      | 27.0 | 11.1 | 7.9  | 84.1 | 18.3 | 4.8 | 28.6 |  |  |
| KDB  | #1         | 1.25                 | 2.88  | 1.06 | 0.47  | 0.34  | 3.31 | 0.72 | 0.19 | 1.125 | 31.8  | 73.0                      | 27.0 | 11.9 | 8.7  | 84.1 | 18.3 | 4.8 | 28.6 |  |  |
| KDC  | 1/0        | 1.5                  | 2.625 | 1.25 | 0.52  | 0.39  | 3.38 | 0.88 | 0.25 | 1.125 | 38.1  | 92.1                      | 31.8 | 13.1 | 9.9  | 85.7 | 22.2 | 6.4 | 28.6 |  |  |
| KDD  | 2/0        | 1.63                 | 2.625 | 1.25 | 0.56  | 0.44  | 3.38 | 0.88 | 0.25 | 1.125 | 41.3  | 92.1                      | 31.8 | 14.3 | 11.1 | 85.7 | 22.2 | 6.4 | 28.6 |  |  |
| KDE  | 3/0        | 1.63                 | 3.63  | 1.44 | 0.61  | 0.48  | 3.38 | 0.97 | 0.25 | 1.125 | 41.3  | 92.1                      | 36.5 | 15.5 | 12.3 | 85.7 | 22.2 | 6.4 | 28.6 |  |  |
| KDF  | 4/0        | 1.75                 | 3.63  | 1.44 | 0.69  | 0.55  | 3.38 | 0.97 | 0.25 | 1.125 | 44.5  | 92.1                      | 36.5 | 17.5 | 13.9 | 85.7 | 22.2 | 6.4 | 28.6 |  |  |
| KDH  | 250 MCM    | 1.88                 | 3.63  | 1.44 | 0.75  | 0.28  | 3.38 | 0.97 | 0.25 | 1.125 | 47.6  | 92.1                      | 36.5 | 19.0 | 15.1 | 85.7 | 24.6 | 6.4 | 28.6 |  |  |
| KDJ  | 350 MCM    | 2.0                  | 3.63  | 1.63 | 0.88  | 0.70  | 3.38 | 1.06 | 0.25 | 1.125 | 50.8  | 92.1                      | 41.3 | 22.2 | 17.8 | 85.7 | 27.0 | 6.4 | 28.6 |  |  |
| †KDM**   | 500 MCM    | 2.88                 | 3.078 | 1.88 | 1.06  | 0.83  | 3.38 | 1.19 | 0.25 | 1.63  | 73.0  | 92.1                      | 47.6 | 27.0 | 21.0 | 85.7 | 30.2 | 6.4 | 41.3 |  |  |
| KDR**  | 750 MCM    | 3.5                  | 3.75  | 2.5  | 1.31  | 1.06  | 3.5  | 1.5  | 0.25 | 2.0   | 88.9  | 95.2                      | 63.5 | 33.3 | 27.0 | 88.9 | 38.1 | 6.4 | 50.8 |  |  |
| <b>Compression Connector Rod Terminal and Tubular Terminal (Figure 3)</b>  |            |                      |       |      |       |       |      |      |      |       |       |                           |      |      |      |      |      |     |      |  |  |
| KEX  | 4/0        | 2.5                  | 3.63  | 1.75 | 1.44  | 0.69  | 0.55 | 0.5  | —    | —     | 63.5  | 92.1                      | 44.5 | 36.5 | 17.5 | 13.9 | 12.7 | —   | —    |  |  |
| KFH-A  | 250 MCM    | 2.5                  | 3.63  | 1.88 | 1.44  | 0.75  | 0.28 | 0.56 | —    | —     | 63.5  | 92.1                      | 47.6 | 36.5 | 19.0 | 15.1 | 14.3 | —   | —    |  |  |
| KQO  | 350 MCM    | 2.5                  | 3.63  | 2.0  | 1.63  | 0.88  | 0.70 | 0.81 | —    | —     | 63.5  | 92.1                      | 50.8 | 41.3 | 22.2 | 17.8 | 20.6 | —   | —    |  |  |
| KDT  | 500 MCM    | 2.5                  | 3.078 | 2.88 | 1.88  | 1.06  | 0.83 | 0.81 | —    | —     | 63.5  | 92.1                      | 73.0 | 47.6 | 27.0 | 21.0 | 20.6 | —   | —    |  |  |
| <b>*Center Bolt-Type Terminal and Offset Bolt-Type Terminal (Figure 4)</b> |            |                      |       |      |       |       |      |      |      |       |       |                           |      |      |      |      |      |     |      |  |  |
| KPF  | 4/0        | 3.38                 | 3.63  | 1.44 | 1.125 | 1.125 | 0.97 | —    | —    | —     | 85.7  | 92.1                      | 36.5 | 28.6 | 28.6 | 24.6 | —    | —   | —    |  |  |
| KFT  | 250 MCM    | 3.38                 | 3.63  | 1.44 | 1.125 | 1.125 | 0.97 | —    | —    | —     | 85.7  | 92.1                      | 36.5 | 28.6 | 28.6 | 24.6 | —    | —   | —    |  |  |
| KEW  | 350 MCM    | 3.38                 | 3.63  | 1.63 | 1.125 | 0.97  | 1.06 | —    | —    | —     | 85.7  | 92.1                      | 41.3 | 28.6 | 28.6 | 27.0 | —    | —   | —    |  |  |
| KDP**  | 500 MCM    | 3.38                 | 3.078 | 1.88 | 1.5   | 1.63  | 1.19 | —    | —    | —     | 85.7  | 92.1                      | 47.6 | 38.1 | 41.3 | 30.2 | —    | —   | —    |  |  |
| KFM**  | 750 MCM    | 3.5                  | 3.75  | 2.5  | 2.0   | 2.0   | 1.5  | —    | —    | —     | 88.9  | 95.3                      | 63.5 | 50.8 | 50.8 | 38.1 | —    | —   | —    |  |  |

\*Copper or aluminum cable; sizes of all other limiters pertain to copper only. †Available with molded rubber boot "B". -V suffix - Heat shrink tube available on several Part Nos.

\*\* UL Listed File E90818, 600V, ac 200,000 AIC