

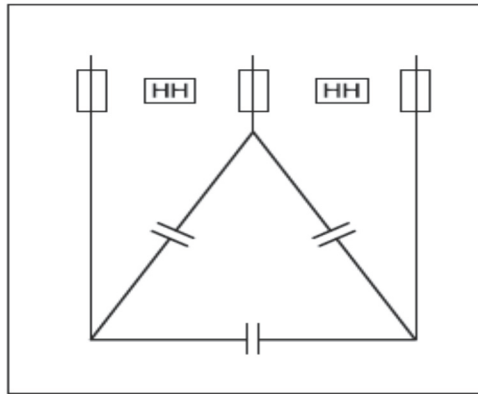
HHD Applications

Protection of Capacitors

Recommendation for the protection of capacitors with HHD fuses to DIN standard.

Assignment of rated currents of HHD fuses to capacitor ratings.

To control the occurring voltage during switch off, the fuse should be chosen with the next higher range, e.g. for a capacitor voltage at 10kV the fuse should be rated 20kV - see IEC 60549, Chapter II, Para 3.2.



| Capacitor<br>Rating | HV Fuse Selection                 |               |               |               |               |               |
|---------------------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
|                     | System Voltage( Line - Line) [kV] |               |               |               |               |               |
|                     | 6 - 7.2                           |               | 10 - 12       |               | 20 - 24       |               |
|                     | Rated Voltage                     | Rated Current | Rated Voltage | Rated Current | Rated Voltage | Rated Current |
| [kVA]               | [kV]                              | [A]           | [kV]          | [A]           | [kV]          | [A]           |
| 50                  |                                   | 10            |               | 6.3           |               | 6.3           |
| 100                 |                                   | 20            |               | 10            |               | 6.3           |
| 200                 |                                   | 40            |               | 20            |               | 10            |
| 250                 |                                   | 50            |               | 25            |               | 16            |
| 300                 |                                   | 63            |               | 31.5          |               | 16            |
| 400                 | 6 - 12                            | 80            | 10 - 24       | 40            | 20 - 36       | 20            |
| 500                 |                                   | 100           |               | 50            |               | 25            |
| 750                 |                                   | 160           |               | 80            |               | 40            |
| 1 000               |                                   | 200           |               | 100           |               | 50            |
| 1 250               |                                   | 250           |               | 125           |               | 63            |
| 1 600               |                                   | 315           |               | 160           |               | 80            |
| 2 000               |                                   | 315           |               | 200           |               | 100           |