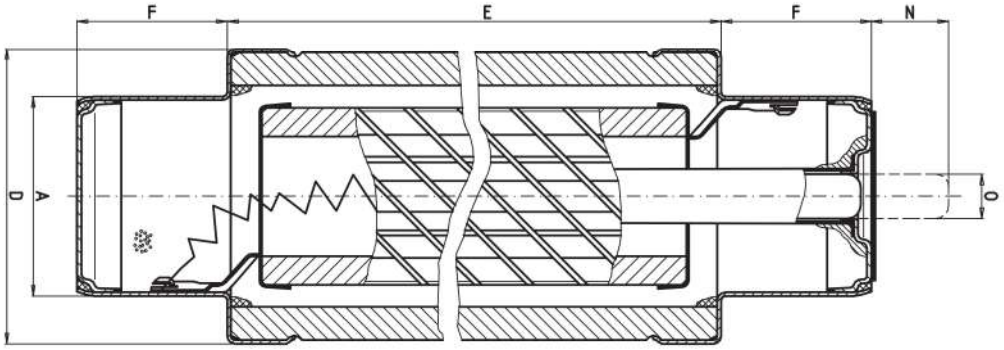
# High Voltage Fuses

**German DIN Standard**

**For Air & Gas Insulated Switchgear**
**Indoor and Outdoor Application**

| DIN | Rated Voltage | Class | Standard |
|---|---|---|---|
| **E= 292 mm** | **AC 3/7.2 kV** | **Back-up** | **DIN 43625 · IEC 60282-1** |

| Rated Current [A] | Part No. | D = Diameter [inch] | D = Diameter [mm] | Rated Breaking Current [kA] | Weight [kg/1] | Pack |
|---|---|---|---|---|---|---|
| 6.3 | 30 098 13.6.3 | 2.10 | 53 | 63 | 1.6 | 1 |
| 10 | 30 098 13.10 | 2.10 | 53 | 63 | 1.6 | 1 |
| 16 | 30 098 13.16 | 2.10 | 53 | 63 | 1.6 | 1 |
| 20 | 30 098 13.20 | 2.10 | 53 | 63 | 1.6 | 1 |
| 25 | 30 098 13.25 | 2.10 | 53 | 63 | 1.6 | 1 |
| 31.5 | 30 098 13.31.5 | 2.10 | 53 | 63 | 1.6 | 1 |
| 40 | 30 098 13.40 | 2.10 | 53 | 63 | 1.6 | 1 |
| 50 | 30 098 13.50 | 2.10 | 53 | 63 | 1.6 | 1 |
| 63 | 30 099 13.63 | 2.64 | 67 | 63 | 2.0 | 1 |
| 80 | 30 099 13.80 | 2.64 | 67 | 63 | 2.0 | 1 |
| 100 | 30 099 13.100 | 2.64 | 67 | 63 | 2.0 | 1 |
| 125 | 30 099 13.125 | 2.64 | 67 | 63 | 2.0 | 1 |
| 160 | 30 100 13.160 | 3.35 | 85 | 50 | 3.8 | 1 |
| 200 | 30 100 14.200 | 3.35 | 85 | 50 | 3.8 | 1 |
| 250 | 30 100 14.250 | 3.35 | 85 | 50 | 3.8 | 1 |
| 315 | 30 100 14.315 | 3.35 | 85 | 50 | 3.8 | 1 |
| 355 | 30 100 14.355 | 3.35 | 85 | 50 | 3.8 | 1 |




| | | |
|---|---|---|
| **A** | **1.77"** | (45 mm) |
| **F** | **1.30"** | (33 mm) |
| **O** | **0.40"** | (10 mm) |
| **N** | **1.38"** | (35 mm) |

DIN **E= 192 mm** | Rated Voltage **AC 3/7.2 kV** | Class **Back-up**

| Rated Current [A] | Part No. | Rated Breaking Current [kA] | Minimum Breaking Current [A] | Cold Resistance [mOhm] | Power Loss [W] | Pre-arcing I²t-value [A²s] | Total I²t-value @ 3 kV [A²s] | Total I²t-value @ 7.2 kV [A²s] |
|---|---|---|---|---|---|---|---|---|
| 6.3 | 30 002 13.6.3 | 63 | 22 | 178.0 | 10 | 45 | 210 | 360 |
| 10 | 30 002 13.10 | 63 | 34 | 113.0 | 17 | 75 | 350 | 560 |
| 16 | 30 002 13.16 | 63 | 56 | 50.0 | 17 | 250 | 1 100 | 2 000 |
| 20 | 30 002 13.20 | 63 | 70 | 27.0 | 13 | 640 | 2 900 | 4 800 |
| 25 | 30 002 13.25 | 63 | 90 | 21.0 | 16 | 1 050 | 4 700 | 7 500 |
| 31.5 | 30 002 13.31.5 | 63 | 110 | 17.0 | 21 | 1 700 | 6 600 | 12 000 |
| 40 | 30 002 13.40 | 63 | 140 | 13.0 | 27 | 2 900 | 12 000 | 19 000 |
| 50 | 30 002 13.50 | 63 | 170 | 9.3 | 30 | 5 700 | 20 000 | 33 000 |
| 63 | 30 010 13.63 | 63 | 210 | 6.8 | 38 | 10 700 | 40 000 | 66 000 |
| 80 | 30 010 13.80 | 63 | 280 | 4.8 | 47 | 21 000 | 78 000 | 140 000 |
| 100 | 30 010 13.100 | 63 | 320 | 3.8 | 64 | 33 000 | 130 000 | 210 000 |
| 125 | 30 010 13.125 | 63 | 390 | 3.3 | 98 | 47 000 | 180 000 | 390 000 |
| 160 | 30 018 13.160 | 63 | 600 | 2.4 | 124 | 90 000 | 330 000 | 570 000 |
| 200 | 30 018 14.200 | 50 | 800 | 1.9 | 146 | 230 000 | 480 000 | 704 000 |

DIN **E= 292 mm** | Rated Voltage **AC 3/7.2 kV** | Class **Back-up**

| Rated Current [A] | Part No. | Rated Breaking Current [kA] | Minimum Breaking Current [A] | Cold Resistance [mOhm] | Power Loss [W] | Pre-arcing I²t-value [A²s] | Total I²t-value @ 3 kV [A²s] | Total I²t-value @ 7.2 kV [A²s] |
|---|---|---|---|---|---|---|---|---|
| 6.3 | 30 098 13.6.3 | 63 | 22 | 178.0 | 10 | 45 | 210 | 360 |
| 10 | 30 098 13.10 | 63 | 34 | 113.0 | 17 | 75 | 350 | 560 |
| 16 | 30 098 13.16 | 63 | 56 | 50.0 | 17 | 250 | 1 100 | 2 000 |
| 20 | 30 098 13.20 | 63 | 70 | 27.0 | 13 | 640 | 2 900 | 4 800 |
| 25 | 30 098 13.25 | 63 | 90 | 21.0 | 16 | 1 050 | 4 700 | 7 500 |
| 31.5 | 30 098 13.31.5 | 63 | 110 | 17.0 | 21 | 1 700 | 6 600 | 12 000 |
| 40 | 30 098 13.40 | 63 | 140 | 13.0 | 27 | 2 900 | 12 000 | 19 000 |
| 50 | 30 098 13.50 | 63 | 170 | 9.3 | 30 | 5 700 | 20 000 | 33 000 |
| 63 | 30 099 13.63 | 63 | 210 | 6.8 | 38 | 10 700 | 40 000 | 66 000 |
| 80 | 30 099 13.80 | 63 | 280 | 4.8 | 47 | 21 000 | 78 000 | 140 000 |
| 100 | 30 099 13.100 | 63 | 320 | 3.8 | 64 | 33 000 | 130 000 | 210 000 |
| 125 | 30 099 13.125 | 63 | 390 | 3.3 | 98 | 47 000 | 180 000 | 390 000 |
| 160 | 30 100 13.160 | 63 | 600 | 2.3 | 103 | 90 000 | 330 000 | 570 000 |
| 200 | 30 100 14.200 | 50 | 800 | 1.9 | 134 | 230 000 | 480 000 | 704 000 |
| 250 | 30 100 14.250 | 50 | 1 000 | 1.6 | 191 | 371000 | 750 000 | 1 101 000 |
| 315 | 30 100 14.315 | 50 | 1 260 | 1.2 | 281 | 545 000 | 1 066 000 | 1 616 000 |
| 355 | 30 100 14.355 | 50 | 1 420 | 1.1 | 336 | 825 000 | 1 420 000 | 2 225 000 |

**Time-current characteristics and cut-off current diagram please refer to pages HHD 33 and HHD 35**