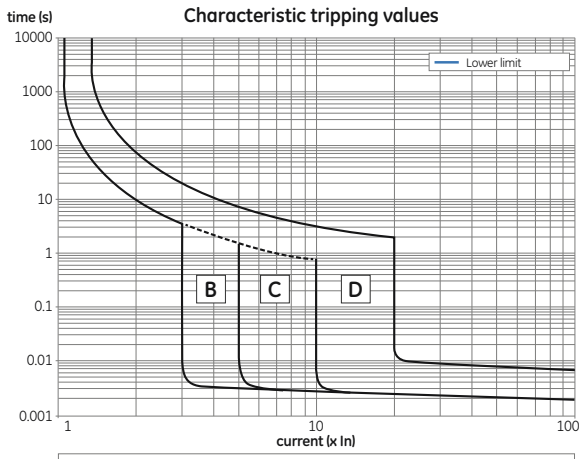
## Characteristic tripping values



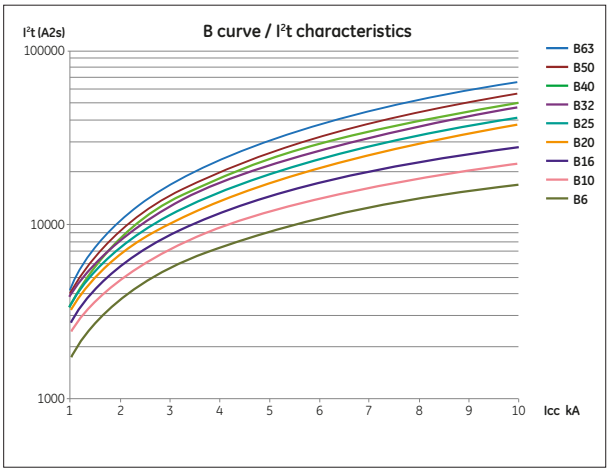

**Tripping characteristic acc. to UL 489**

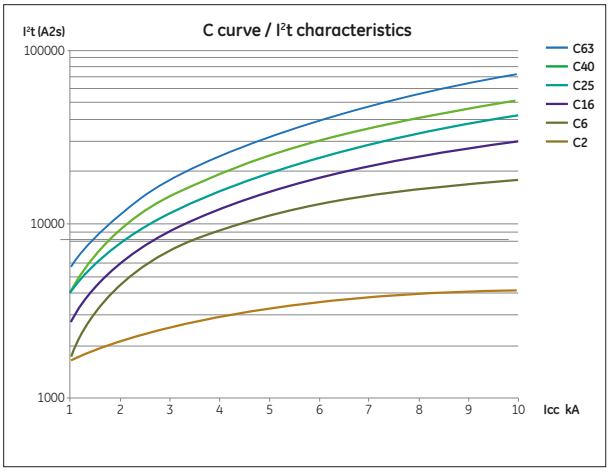
1. Conventional non tripping current
   Rated Current = 1.0 (T= 25°C)
2. Conventional tripping current
   Rated Current = 1.35 In t<1h (T= 25°C)
3. 2.0 In (T= 25°C)
   0.5A < Rated Current ≤ 30A t < 120s
   30A < Rated Current ≤ 50A t < 240s
   50A < Rated Current ≤ 63A t < 360s

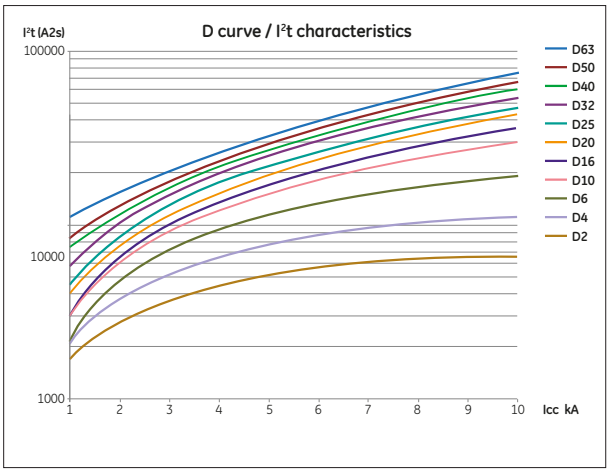
**Instantaneous tripping acc. to IEC 60898-1**

Type B
3 Rated Current t > 0.1s
5 Rated Current t < 0.1s
Type C
5 Rated Current t > 0.1s
10 Rated Current t < 0.1s
Type D
3 Rated Current t > 0.1s
5 Rated Current t < 0.1s

## Let-through I²t values




## Internal resistances and power losses per pole, loads with rated current

### Power losses - Series EP100ULH

| | B curve - Power loss (W) | | | C-D curve - Power loss (W) | | |
|---|---|---|---|---|---|---|
| Rated Current (A) | 1P | 2P | 3P | 1P | 2P | 3P |
| 0.5 | - | - | - | 1.18 | 2.35 | 3.53 |
| 1 | - | - | - | 1.33 | 2.67 | 4.00 |
| 2 | - | - | - | 1.30 | 2.60 | 3.91 |
| 3 | - | - | - | 1.64 | 3.28 | 4.91 |
| 4 | - | - | - | 1.56 | 3.13 | 4.69 |
| 5 | 1.65 | 3.30 | 4.95 | 1.65 | 3.30 | 4.95 |
| 6 | 1.65 | 3.30 | 4.95 | 1.65 | 3.30 | 4.95 |
| 8 | 1.30 | 2.60 | 3.91 | 1.30 | 2.60 | 3.91 |
| 10 | 1.64 | 3.28 | 4.91 | 1.64 | 3.28 | 4.91 |
| 13 | 2.11 | 4.22 | 6.33 | 2.11 | 4.22 | 6.33 |
| 15 | 2.70 | 5.40 | 8.10 | 2.70 | 5.40 | 8.10 |
| 16 | 2.70 | 5.40 | 8.10 | 2.70 | 5.40 | 8.10 |
| 20 | 2.90 | 5.80 | 8.69 | 2.90 | 5.80 | 8.69 |
| 25 | 3.35 | 6.70 | 10.05 | 3.35 | 6.70 | 10.05 |
| 30 | 3.22 | 6.45 | 9.67 | 3.22 | 6.45 | 9.67 |
| 32 | 3.22 | 6.45 | 9.67 | 3.22 | 6.45 | 9.67 |
| 35 | 3.57 | 7.14 | 10.71 | 3.57 | 7.14 | 10.71 |
| 40 | 4.20 | 8.40 | 12.60 | 4.20 | 8.40 | 12.60 |
| 50 | 4.73 | 9.45 | 14.18 | 4.73 | 9.45 | 14.18 |
| 60 | 5.42 | 10.84 | 16.25 | 5.42 | 10.84 | 16.25 |
| 63 | 5.42 | 10.84 | 16.25 | 5.42 | 10.84 | 16.25 |