

From BS 7671 Red book

**Maximum Earth Loop Impedances for Circuit breaker with Disconnection times of 0.4 s and 5s
For Final Circuits Table 41.3**

| Type B C/Breaker | | Type C C/Breaker | | Type D C/Breaker | |
|------------------|----------------|------------------|---------------|------------------|---------------|
| Rating A | Zs Ohms | Rating A | Zs Ohms | Rating A | Zs Ohms |
| 3 | 15.33 Ω | | | | |
| 6 | 7.67 Ω | 6 | 3.83 Ω | 6 | 1.92 Ω |
| 10 | 4.60 Ω | 10 | 2.30 Ω | 10 | 1.15 Ω |
| 16 | 2.87 Ω | 16 | 1.44 Ω | 16 | 0.72 Ω |
| 20 | 2.30 Ω | 20 | 1.15 Ω | 20 | 0.57 Ω |
| 25 | 1.84 Ω | 25 | 0.92 Ω | 25 | 0.46 Ω |
| 32 | 1.44 Ω | 32 | 0.72 Ω | 32 | 0.36 Ω |
| 40 | 1.15 Ω | 40 | 0.57 Ω | 40 | 0.29 Ω |
| 50 | 0.92 Ω | 50 | 0.46 Ω | 50 | 0.23 Ω |
| 63 | 0.73 Ω | 63 | 0.36 Ω | 63 | 0.18 Ω |
| 80 | 0.57 Ω | 80 | 0.29 Ω | 80 | 0.14 Ω |
| 100 | 0.46 Ω | 100 | 0.23 Ω | 100 | 0.11 Ω |
| 125 | 0.37 Ω | 125 | 0.18 Ω | 125 | 0.09 Ω |
| | | | | | |

So for a 20A type C CB the minimum fault current would be 230 divided by 1.15 = 200A