



**LIMITING VALUES OF MEASURED EARTH FAULT LOOP IMPEDENCES
FOR OVERCURRENT PROTECTIVE DEVICES USED FOR EARTH FAULT PROTECTION, OPERATING AT 230 V
BASED ON 80% (APPROXIMATE RULE OF THUMB) OF VALUES GIVEN IN BS 7671 : 2008**

Nominal Rating (A)	Fuses						Circuit Breakers to BS 3871 or BS EN 60898 or RCBO's to BS EN 61009-1				
	BS 88 (gG) Parts 2 & 6		BS 1361		BS 3036		Type 1	Type 2	Type B	Type 3 & C	Type 4 & D
	0.4 s	5 s	0.4 s	5 s	0.4 s	5 s	0.4 seconds & 5 seconds				
3	N/A	N/A	13.12	18.56	N/A	N/A	N/A	N/A	12.26	N/A	N/A
5	N/A	N/A	8.35	13.11	7.66	14.16	9.20	5.26	N/A	3.68	1.84
6	6.81	10.81	N/A	N/A	N/A	N/A	7.66	4.37	6.13	3.06	1.53
10	4.08	5.93	N/A	N/A	N/A	N/A	4.60	2.63	3.68	1.84	0.92
15	N/A	N/A	2.62	4.00	2.04	4.27	3.06	1.75	N/A	1.22	0.61
16	2.16	3.34	N/A	N/A	N/A	N/A	2.87	1.64	2.30	1.15	0.57
20	1.41	2.33	1.36	2.24	1.41	3.06	2.30	1.31	1.84	0.92	0.46
25	1.15	1.84	N/A	N/A	N/A	N/A	1.84	1.04	1.47	0.73	0.36
30	N/A	N/A	0.92	1.47	0.87	2.11	1.53	0.87	N/A	0.61	0.30
32	0.83	1.47	N/A	N/A	N/A	N/A	1.44	0.82	1.15	0.57	0.29
40	0.65	1.08	N/A	N/A	N/A	N/A	1.15	0.65	0.92	0.46	0.23
45	N/A	N/A	0.46	0.77	0.47	1.27	1.02	0.58	0.82	0.40	0.20
50	0.48	0.83	N/A	N/A	N/A	N/A	0.92	0.52	0.73	0.36	0.18
60	N/A	N/A	N/A	0.55	N/A	0.89	N/A	N/A	N/A	N/A	N/A
63	0.36	0.65	N/A	N/A	N/A	N/A	0.72	0.41	0.58	0.29	0.14
80	0.24	0.46	N/A	0.39	N/A	N/A	0.57	0.32	0.46	0.23	0.11
100	0.18	0.33	N/A	0.29	N/A	0.42	0.46	0.26	0.36	0.18	0.08
125	0.14	0.26	N/A	N/A	N/A	N/A	N/A	N/A	0.29	0.14	0.07
160	0.11	0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200	0.08	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Values shown in GREY are not listed in BS 7671 : 2008 - They are for guidance for listing limiting values of Zs allowed for larger fuses & older types of MCB's in existing installations

