



**MAXIMUM VALUES OF MEASURED EARTH FAULT LOOP IMPEDENCES
FOR OVERCURRENT PROTECTIVE DEVICES USED FOR EARTH FAULT PROTECTION, OPERATING AT 230 V
BASED ON 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 1362	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	23.20	N/A	N/A	N/A	N/A	N/A	N/A	15.33	N/A	N/A
5	N/A	N/A	N/A	10.45	16.40	9.58	17.70	11.50	6.56	N/A	4.60	2.30
6	8.52	13.50	N/A	N/A	N/A	N/A	N/A	9.59	5.46	7.67	3.83	1.92
10	5.11	7.42	N/A	N/A	N/A	N/A	N/A	5.75	3.29	4.60	2.30	1.15
13	N/A	N/A	3.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	3.28	5.00	2.55	5.35	3.84	2.20	N/A	1.54	0.76
16	2.79	4.18	N/A	N/A	N/A	N/A	N/A	3.60	2.05	2.87	1.44	0.72
20	1.77	2.91	N/A	1.70	2.80	1.77	3.83	2.88	1.63	2.30	1.15	0.57
25	1.44	2.30	N/A	N/A	N/A	N/A	N/A	2.30	1.30	1.84	0.92	0.46
30	N/A	N/A	N/A	1.15	1.84	1.09	2.64	1.91	1.09	N/A	0.76	0.39
32	1.04	1.84	N/A	N/A	N/A	N/A	N/A	1.80	1.01	1.44	0.72	0.36
40	N/A	1.35	N/A	N/A	N/A	N/A	N/A	1.44	0.81	1.15	0.57	0.29
45	N/A	N/A	N/A	N/A	0.96	N/A	1.59	1.28	0.73	1.01	0.50	0.25
50	N/A	1.04	N/A	N/A	N/A	N/A	N/A	1.15	0.66	0.92	0.46	0.23
60	N/A	N/A	N/A	N/A	0.70	N/A	1.12	N/A	N/A	N/A	N/A	N/A
63	N/A	0.82	N/A	N/A	N/A	N/A	N/A	0.91	0.51	0.73	0.36	0.18
80	N/A	0.57	N/A	N/A	0.50	N/A	N/A	0.73	0.41	0.57	0.29	0.14
100	N/A	0.42	N/A	N/A	0.36	N/A	0.53	0.58	0.33	0.46	0.23	0.11
125	N/A	0.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.37	0.18	0.09
160	N/A	0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200	N/A	0.19	N/A	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 purposes only for listing maximum Zs values for older types of MCB's in existing installations