IEC 60909-3
(Edition 3 – 2009)

Short-circuit currents in three-phase a.c. systems –

Part 3: Currents during two separate simultaneous line-to-earth short circuits and partial short-circuit currents flowing through earth

CEI 60909-3
(Édition 3 – 2009)

Courants de court-circuit dans les réseaux triphasés à courant alternatif –

Partie 3: Courants durant deux courts-circuits monophasés simultanés séparés à la terre et courants de court-circuit partiels s'écoulant à travers la terre

CORRIGENDUM 1

Corrections in the French version are given after the English.

Table 2. – Resistivity of the soil and equivalent earth penetration depth

Replace for rocks 5150 *by* 5100 *and for farmland* 1320 *by* 931 *as follows:*

Soil types	Soil resistivity ρ Ωm	Equivalent earth penetration depth δ m	
		for 50 Hz	for 60 Hz
Granite	>10 000	>9 300	>8 500
Rocks	3 000 ... 10 000	5 100 ... 9 330	4 670 ... 8 520
Stony soil	1 000 ... 3 000	2 950 ... 5110	2 690 ... 4 670
Pebbles, dry sand	200 ... 1 200	1 320 ... 3 230	1 200 ... 2 950
Calcareous soil, wet sand	70 ... 200	780 ... 1 320	710 ... 1 200
Farmland	50 ... 100	660 ... 931	600 ... 850
Clay, loam	10 ... 50	295 ... 660	270 ... 600
Marshy soil	<20	<420	<380

8.3.2.1 Case 1: $R_{EF} \rightarrow \infty$

Replace Equations 51b and 52b as follows:

$\ell_A = 0$ $$\underline{I}_{S1Amax} \approx 3\underline{I}_{(0)A} + (2 + \underline{r}_3)\underline{I}_{(0)B} \quad (51b)$$

$\ell_A = \ell$ $$\underline{I}_{S1Bmax} \approx 3\underline{I}_{(0)B} + (2 + \underline{r}_3)\underline{I}_{(0)A} \quad (52b)$$

Replace Equations 54b and 55b as follows:

$\ell_A = 0$ $$\underline{I}_{E\delta A\,max} = -\underline{r}_3 3\underline{I}_{(0)B} \quad (54b)$$

$\ell_B = 0$ $$\underline{I}_{E\delta B\,max} = -\underline{r}_3 3\underline{I}_{(0)A} \quad (55b)$$