

1/2 Cycle - 3-Phase, LG, LL, & LLG Fault Currents

Prefault Voltage = 100 % of the Bus Nominal Voltage

Bus		3-Phase Fault			Line-to-Ground Fault			Line-to-Line Fault			*Line-to-Line-to-Ground		
ID	kV	Real	Imag.	Mag.	Real	Imag.	Mag.	Real	Imag.	Mag.	Real	Imag.	Mag.
Bus1	34.500	0.701	-8.328	8.357	0.704	-8.321	8.350	7.212	0.607	7.237	-7.566	3.550	8.358
Bus2	0.460	0.488	-1.199	1.295	0.000	0.000	0.000	1.039	0.422	1.121	1.039	0.422	1.121
Bus3	0.460	0.481	-1.171	1.266	0.000	0.000	0.000	1.014	0.417	1.096	1.014	0.417	1.096
Bus4	0.460	0.482	-1.162	1.258	0.000	0.000	0.000	1.006	0.417	1.089	1.006	0.417	1.089
Bus5	0.460	0.485	-1.134	1.233	0.000	0.000	0.000	0.982	0.420	1.068	0.982	0.420	1.068
Bus6	0.230	0.690	-1.751	1.882	0.000	0.000	0.000	1.517	0.597	1.630	1.517	0.597	1.630
Bus7	0.460	0.482	-1.158	1.254	0.000	0.000	0.000	1.003	0.418	1.086	1.003	0.418	1.086
Bus8	0.460	0.486	-1.149	1.248	0.000	0.000	0.000	0.995	0.421	1.081	0.995	0.421	1.081
Bus9	0.230	0.755	-1.702	1.862	0.000	0.000	0.000	1.474	0.654	1.612	1.474	0.654	1.612
Bus10	0.230	0.773	-1.619	1.794	0.000	0.000	0.000	1.402	0.669	1.554	1.402	0.669	1.554
Bus12	34.500	0.696	-8.340	8.369	0.695	-8.340	8.369	7.223	0.602	7.248	6.875	4.772	8.369
Bus14	0.460	0.481	-1.171	1.266	0.000	0.000	0.000	1.014	0.417	1.096	1.014	0.417	1.096
Bus15	0.460	0.483	-1.155	1.252	0.000	0.000	0.000	1.000	0.418	1.084	1.000	0.418	1.084
Bus17	0.230	0.693	-1.640	1.781	0.000	0.000	0.000	1.421	0.600	1.542	1.421	0.600	1.542
Bus18	0.460	0.041	-0.060	0.073	0.042	-0.015	0.045	0.052	0.035	0.063	-0.066	-0.034	0.074
Bus19	0.460	0.085	0.000	0.085	0.085	0.000	0.085	0.000	0.073	0.073	-0.042	0.073	0.085

All fault currents are symmetrical (1/2 Cycle network) values in rms kA.

* LLG fault current is the larger of the two faulted line currents.