Abstract

Voltage sags are the most common power quality disturbance usually associated with power system faults, which can cause huge economic loss, making it the focus of emerging research. The proposed voltage sag detection technique for a single-line-to-ground (SLG) fault is presented using the PMU measurement data for improving the power quality. Various voltage sag detection techniques have been discussed to detect voltage sags. This technique detects the voltage magnitudes, frequency, rate of change of frequency and phase angle jump of voltage for a single-line-to-ground (SLG) fault.

References


Index Terms

Computer Science  Power Electronics

Keywords

power quality, voltage sag detection, single-line-to-ground fault, phase angle jump, PMU.