SYSTEM AND METHOD FOR DETECTING A BREAKER TRIP

ABSTRACT

A power distribution system is disclosed and may include an input power source and at least one circuit breaker associated with each branch circuit receiving power from the input power source. The power distribution system may also include a monitoring subsystem configured to detect when a line side voltage of the at least one circuit breaker is above an undervoltage fault value and when the current through the at least one circuit breaker is above a minimum value for at least one line cycle, and notifying of a breaker trip condition when the current through the at least one circuit breaker falls below the minimum value and then below a zero current level or a circuit breaker magnetizing current level within a threshold number of line cycles and the line side voltage of the at least one circuit breaker remains above the undervoltage fault value.

FIG. 1