

ABSTRACT

There is provided an arcing detection system that detects an output of noise superimposed on a voltage or a current of an electric circuit to which a load 8 is connected, the arcing detection system including a filter unit 11 that extracts an output waveform in a high frequency band, a phase division unit 14 that determines a peak time domain including domains before and after a peak at a commercial frequency related to the output waveform extracted by the filter unit and a 0 value time domain before and after an output at the commercial frequency becomes a 0 value to distinguish between the peak time domain and the 0 value time domain, a determination unit 15 that determines an arcing event when an output in the peak time domain or a calculation value of the output in the peak time domain and an output in a 0 value time domain exceeds a threshold, and a threshold changing unit 16 that changes the threshold depending on presence or absence of an output in the 0 value time domain.

Fig. 1