

ABSTRACT

An inverter deterioration determination process for determining whether or not there is deterioration of an inverter 11 measures an output current of the inverter 11 while a motor 10 is in operation and determines that the inverter 11 is deteriorating when at least one of following (a) to (c) occurs: (a) a period abnormality in which a period of a current waveform acquired by the output current measurement fluctuates; (b) an amplitude abnormality in which an amplitude of a current waveform acquired by the output current measurement fluctuates; and (c) a higher harmonic ratio abnormality in which a ratio of higher harmonics of a power-supply frequency f_1 acquired by the output current measurement fluctuates.