

METHOD FOR MONITORING AND DIAGNOSING
DETERIORATION OF INVERTER

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.

FIG. 1