Electrotehnica, Electronica, Automatica

Volume 16, Issue 1, 2018, Pages 55-61

DETECTION OF BROKEN ROTOR BAR FAULT IN THE SQUIRREL CAGE INDUCTION MOTOR USING WAVELET PACKET ANALYSIS

DRICI Djalel, Merabet hichem, Aouabdi Salim, Boudiaf Adel

Abstract: The fault of broken rotor bars in a three phase induction motor is diagnosed by using the wavelet Packet analysis. In this paper Daubechies wavelet is selected as the wavelet base and the wavelet coefficient is obtained from the wavelet transform of current signal of the faulty induction motor. Tghe energy of wavelet components appear to be useful for detecting different electrical faults. In this paper we will study the problem of broken rotor bars

Keywords : Wavelet Packet, Analysis, diagnosis fault, induction motor, broken bar