

Harmonic Analysis of Power Quality Indices Based on DWT using Three-Phase Modern Converters

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Abstract—The common method used for power quality disturbances detection, represented by the Fast Fourier Transform (FFT) can provide amplitude-frequency information but loses time information. A more efficient tool is considered Discrete Wavelet Transform (DWT) that can be also applied to unbalanced three-phase systems with nonlinear loads, in non-sinusoidal conditions. It also analyses the signal in a time-frequency domain by dividing the frequency spectrum into straps or levels, using windows of variable duration, dependent on the frequency band. In the harmonic analysis of Power Quality Indices (PQIs) three rectifier topologies with near sinusoidal input currents (RNSIC) were used. This rectifier is a classic type of a three-phase bridge rectifier with parallel diode capacitors and serial inductors attached.

Keywords—discrete wavelet transform (DWT), data acquisition system, power quality indices (PQIs), rectifier with near sinusoidal input currents (RNSIC), harmonics.

I. INTRODUCTION

Electric power quality is a topic of great interest which concerns not only the compatibility of the electric power parameters with the operating characteristics of the customers, but also the analysis of electromagnetic disturbances that appear in the supply systems due to current harmonics generated by electronic equipments. Along with the major changes of the energetic domain regarding reorganization, liberalization, privatization, it was developed a competitive mentality that facilitates the enhancement of energetic efficiency, the improvement of services quality and gives to the customers the possibility of protection within the contractual conditions negotiated with the energy suppliers [1-2].

For managing the power quality it is necessary to determine a set of indices that are used to establish the evaluating circumstances of the electromagnetic disturbances and compare the obtained parameters with the standardized values [3-4].

The traditional methods employed in defining the main electric quantities are based on Fast Fourier Transform (FFT). Although it is a regular analysis tool, FFT is difficult to be used for those applications in which it has to be known the spectral composition of the signal at a certain point of time. Instead, Discrete Wavelet Transform (DWT) analyses the

signal in a time-frequency domain and minimises the computational effort.

Even if the majority of the electric networks are three-phase, weak attempts were made for defining, in wavelet domain, the electric power components for unbalanced three-phase systems under non-sinusoidal conditions [5-11].

The emergence of new technologies and novel generations of devices and equipments in domestic and industrial areas have determined important changes in the nature of loads connected to electric systems. The main electromagnetic pollution sources can be classified as follows: three-phase rectifiers with thyristors, rectifiers with capacitive filter, arc furnaces and variators.

Considerable usage of receivers with nonlinear characteristics generates the presence of intensive harmonic currents in the electric network which degrade the electric power product and affect the other customers. The IEEE 519/1992 standard contains practical recommendations regarding harmonics control and reactive power compensation [12].

The 61000-3-2/ 2005 standard which establishes the upper limits for the harmonics injected in the electric network by static power converters, is applicable in the case of electric and electronic devices intended for connection with low-voltage public distribution networks that have a input current value less than or equal to 16A on each phase, while the IEC 61000-3-4/ 2006 standard concerns the current harmonics inlaid by nonlinear loads (including rectifiers) with phase current higher than 16A and are connected with power lines [13-14].

This paper proposes a harmonic analysis of PQIs based on Discrete Wavelet Transform (DWT) using three rectifier topologies with near sinusoidal input currents (RNSIC). The generated waveforms are captured with a data acquisition system which contains Hall voltage and current transducers.

II. THE PQIs DEFINITIONS BASED ON DWT IN THE THREE-PHASE SYSTEMS CASE

In many power electronics applications for three-phase systems with AC 50/60 Hz power supplies, the alternative sinusoidal voltage must be converted in a DC voltage. These applications are represented by the uninterruptible power

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