

STUDENT SECTION

Using Speed Variable Drives in Water Pumps System

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Abstract- This work falls under measures proposed by EU measures to improve energy efficiency and reduce energy consumption through the introduction and use of electronic control system, static frequency converters, integrated program officials for pumps, fans, compressors, conveyors, they having an important share in consumption and savings by using variable speed. Are some aspects of the performance characteristics of fluid flow systems using centrifugal pumps and the influence of speed on the characteristics of fluid flow pumping systems by introducing variable speed and use static frequency converters for induction motor drives. We present the principle of speed control system with variable frequency and structure of the modular design of a frequency converter. Presented method for modifying the flow field behind civil oriented speed control systems with induction motors most widespread. The benefits of the introduction of variable speed circulation of fluids and the resulting economic benefits by reducing energy consumption leads to limiting carbon emissions, is in accordance with EU directives for increasing energy efficiency and limiting carbon emissions.