

## SINGLE PHASE TO THREE PHASE CONVERSION USING CYCLO CONVERTER & SCOTT-T TRANSFORMER

### ABSTRACT:

In the modern era, Power Electronic and motion control has emerged as a very important technology in the industrial automation. In the industrial process, most of the drives are constant torque type and need to drive such loads at different speeds, because of which generation of supply with variable frequency become essential. Single phase cycloconverters are used for AC-AC power conversion particular for speed control of AC drives. To avoid the voltage spikes that appear during the dead time, safe commutation strategy is employed. In this project we convert the single phase uncontrolled to single phase controlled output using cycloconverter and this is fed to a scott transformer to obtain three phase controlled output and these are going to be analyzed by MATLAB Simulink.

