

Abstract

A micro-controller based power factor corrector for poor power factor (linear or non linear) loads is introduced. The system power factor is measured and compared with a predetermined reference value. Accordingly, the micro-controller adjusts the power factor to get the predetermined value. This is achieved by controlling the firing angle of a thyristorized static VAR compensator through micro-controller software. The micro controller measures the system power factor at every supply cycle, and the sequence is repeated. This scheme achieves both accurate measurement and adjustment of the system power factor.