EVALUATION OF THE CHARACTERISTICS OF SINGLE PHASE ENERGY SAVING CONTROLLER

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ABSTRACT

This project deals with an experimental investigation of the energy savings effected when a single phase induction motor is employed with the single phase energy saving controller.

Considering the savings from the above investigation the controller is employed for the reduction in energy consumption, improvement of power factor and efficiency.

A satisfactory performance is obtained using the single phase energy saving controller but not on the whole range of operating conditions. The controller can be used when the motor is running between 0 and 70% of loading with satisfactory savings in power consumption.

In our case considerable power savings are recorded only up to 40% of power output.

CONTENTS

Pages

APPENTICES