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THREE PHASE MOTOR CONTROL USING GSM

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Abstract: This paper provides development of mobile phones as remote control application for the induction motorpump which is used in the agriculture. Due to frequent power cuts and abnormal voltage conditions in India, it is necessary to distribute water efficiently to the fields during normal conditions. This is carried out by exchanging the information between the user phone and GSM in the form of messages. This system is developed with AT89C51 Microcontroller which in connected to the GSM and the motor. The microcontroller includes the protection against over-current, dry running and single phasing. It is expected that this application provides easy access of motor to a great extent.

Keywords: AT89C51 Microcontroller, GSM- Global System for Mobile communication, Mobile, SMS- Short Message Service.

INTRODUCTION

resources depend on the agricultural output. With the rapid GSM will give message to mobile & mobile will display development of agriculture in India, many automatic message "3Phase is Ok". technologies have been introduced into agricultural productions. The total rainfall in a particular area may be If we send message "Pump On" to GSM Module through either insufficient, or ill-timed. In order to get the mobile, relay circuit will switch In the pump with the help maximum yield, it is essential to supply the optimum of Current Amplifier. Pump is working on 3 Phase power quantity of water, and maintain correct timing of water. supply so out of 3 phase if any phase is braked, pump will This is possible only through a systematic irrigation immediately off & GSM will inform status of 3 Phase system-by collecting water during the periods of excess rainfall and releasing it to the crop as and when it is needed. Irrigation is the science of planning and designing an efficient, low-cost, economic irrigation system tailored G. to fit natural conditions. By the construction of proper The GSM modern communicates with the user cell phone distribution system, the yield of crop may be increased to intimate the condition obtained for the microcontroller. because of controlled water supply.

III. METHODOLOGY GSM BASED MOTOR CONTROL

The aim of this paper is to develop a cost effective solution that will provide remote control of induction motors through mobile phones using messages. The mobile user in the world has a tremendous rise during the past few years.

Remote monitoring of processes, machines, etc., is popular due to advances in technology and reduction in hardware carriage return. cost. Cellular networks provide Short Messaging Service (SMS) approach offers simple interface with only destination cell phone address and message requirement without any header / protocol overhead.

SYSTEM DESCRIPTION

In this project we can switch On & Off 3-Phase motor pump through mobile by using GSM. For this purpose we will use 3 Phase supply, Micro-controller IC, LCD Display, Max 232, GSM Module, Current Amplifier, The text message is sent to cell phone using CMGS Relay& 3 Phase Pump.

India is basically an agricultural country, and all its Above Block Diagram shows if 3 Phase supply is Ok

supply to the mobile. Then mobile will display message "Pustop Off".

CELL PHONE BASED SYSTEM.

Serial Port Adapter works in data and AT modes and needs to be properly configured.

During power-on condition, LCD is initially in data mode and by sending characters, the device is moved into AT mode for configuration. In AT mode, series of commands are sent for proper configuration. If match is found, it starts data communication between micro-controller system and GSM. AT commands are sent by sending text strings along with specified command strings through serial port to cell phone and are executed on receipt of

SMS Approach: SMS is store and forward way of transmitting messages between cell phones. The major advantage of using SMS is provision of intimation to the sender when SMS is delivered at the destination and ability of SMSC to continue efforts for delivery of message for the specified validity period if network is presently basy.

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