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Dr. U. RAMESH BABU (ASSISTANT PROFESSOR, EEE)

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Patent Search

		Patent Search	
Invention Title	OVERVOLTAGE AND UND	ER VOLTAGE PROTECTION, NOTIFICATION USING ML AND IOT- BASED SYSTEM.	
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Inventor			
Name		Address	
AYES CHINMAY (ASSISTANT PROFESSOR)		Department of Centre for Data Science, Siksha 'O' Anusandhan (Deemed to be University) Bhubaneswar, Odisha, India, 751030.	
Dr. M PALA PRASAD REDDY (ASSOCIATE PROFESSOR)		Institute of Aeronautical Engineering Hyderabad, India.	
Prof.(Dr.) B.K. SARKAR (INTERNATIONAL PATENT MOTIVATIONAL SPEAKERS)		GEH Research, New Mumbai, MH, India.	
Mr. PAWAN KUMAR SINGH		GEH Research, New Mumbai, MH, India	
Dr. M. PADMA LALITHA (PROFESSOR & HOD, EEE)		Department of EEE, Annamacharya Institute of Technology and Sciences (AITS), Rajampet-516126, Kadapa, Andhra Pradesh, India.	
Dr. U. RAMESH BABU (ASSISTANT PROFESSOR, EEE)		Dept of EEE, N B K R Institute of Science and Technology (NBKRIST), Vidyanagar, Nellore-5 Andhra Pradesh, India.	
Applicant			
Name		Address	
AYES CHINMAY (ASSISTANT PROFESSOR)		Department of Centre for Data Science, Siksha 'O' Anusandhan (Deemed to be University) Bhubaneswar, Odisha, India, 751030.	
Dr. M PALA PRASAD REDDY (ASSOCIATE PROFESSOR)		Institute of Aeronautical Engineering Hyderabad, India.	
Prof.(Dr.) B.K. SARKAR (INTERNATIONAL PATENT MOTIVATIONAL SPEAKERS)		GEH Research, New Mumbai, MH, India.	
Mr. PAWAN KUMAR SINGH		GEH Research, New Mumbai, MH, India	
Dr. M. PADMA LALITHA (PROFESSOR & HOD, EEE)		Department of EEE, Annamacharya Institute of Technology and Sciences (AITS), Rajampet	

516126, Kadapa, Andhra Pradesh, India.

Andhra Pradesh, India.

Dept of EEE, N B K R Institute of Science and Technology (NBKRIST), Vidyanagar, Nellore- 5.

Abstract:

Our Invention "Overvoltage and Under Voltage Protection, Notification Using ML and IoT- based System" is a this invention presents a novel system t domestic loads from over voltage and under voltage in AC mains supply. The proposed system monitors the voltage and provides a breakpoint base voltage tripping mechanism and protects the load using Machine Learning. The proposed system consists of a tripping mechanism that monitors the according to the limits provided. A lamp load is used in this research work to test the effective working of proposed system. This invention proposes device designed to be integrated in smart environments based on Internet-of-Things technologies. The proposed system enhances electrical safety be power supply in case of fault events like leakage current, electrical arc, overcurrent or overvoltage and has been designed with the goal to be integral like smart homes or smart cities for protecting the electrical equipment. The system also enables real-time monitoring and notification events througe communication interface using a data concentrator architecture. This invention provides an extended description of the proposed system's design at the experimental validation results.

Complete Specification

DESCRIPTION OF THE INVENTION

Load decoupling circuit and power supply. For decoupling the heap a static SSR module SSP1A125BD Schneider Solid state transfer is utilized, having 300 V AC yield, and 25A greatest current, and for unbiased decoupling we have utilized a hand-off (RLY). Decoupling happens first for the stage and nonpartisan, while recoupling happens in the opposite request. The honesty of the SSR and the hand-off is being checked at gadget fire up and intractivity.

The PS power supply is an exchanging MEAN WELL DR-15-12 stock with a 12V DC yield, 1.25A evaluated current and 85-264V AC supply voltage. The against overvoltage by the PSP (Power Supply Protection) circuit, comprising of a resistor associated in corresponding with a triac.

Under typical conditions, when the matrix voltage is under a most extreme worth, the μ C initiates a triac to cut off resistor associated in series with point when the network voltage surpass the greatest worth, the μ C deactivates the triac, prompting the resistor being interface in series with the p circulating the voltage between the resistor and the PS.

At the noint when the network voltage gets back to ostensible worth, the uC orders the re-enactment of the triac. Plan and execution insurances w

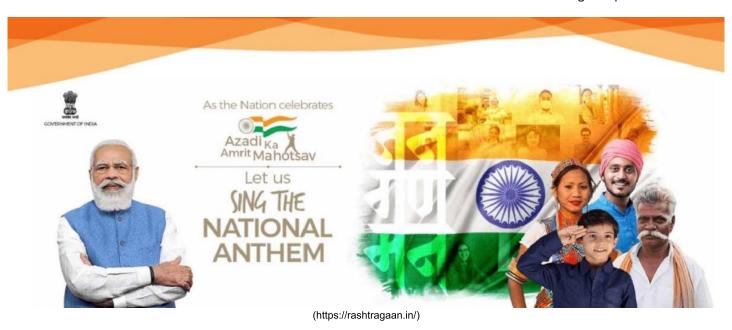
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APPLICANT NAME	 AYES CHINMAY (ASSISTANT PROFESSOR) Dr. M PALA PRASAD REDDY (ASSOCIATE PROFESSOR) Prof.(Dr.) B.K. SARKAR (INTERNATIONAL PATENT MOTIVATIONAL SPEAKERS) Mr. PAWAN KUMAR SINGH Dr. M. PADMA LALITHA (PROFESSOR & HOD, EEE) Dr. U. RAMESH BABU (ASSISTANT PROFESSOR, EEE) 	
TITLE OF INVENTION	OVERVOLTAGE AND UNDER VOLTAGE PROTECTION, NOTIFICATION USING ML AND IOT- BASED SYSTEM.	
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E-MAIL (As Per Record)	dr.bksarkar2003@yahoo.in	
ADDITIONAL-EMAIL (As Per Record)	dr.bksarkar2003@gmail.com	
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Application Status

APPLICATION STATUS

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Examination Disposed



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