RANCANG BANGUN ALAT *MONITORING* KEGAGALAN FASA DAN ANALISA BEBAN LISTRIK PADA INSTALASI 3 FASA BERBASIS IOT MELALUI APLIKASI BLYNK

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ABSTRACT

Electrical energy has become a basic need both in installations and industry, many things that cause phase loss occur due to phase failures that occur, this requires a phase failure protection device caused by rising or falling voltage which is usually called under or over voltage, especially on a 3 phase voltage system. This tool is designed to use 3 AC regulators to simulate phase failure, over or under voltage at voltages <220 or >220. Blynk will send notifications and alarm sounds in voltage conditions of 130 V AC for undervoltage and 230 V AC for overvoltage, the duration of sending notifications and alarm sounds on Blynk, when a phase failure occurs is around 1-2 seconds, with an average time delivery is 1.3 seconds, or you could say it immediately sends a notification and an alarm sound when a phase failure occurs. In testing this tool, the tool worked well, namely 80%.

Keywords: Reliability, Phase Failure, PZEM-004T Sensor, Blynk