RANCANG BANGUN SISTEM AUTOMATIC TRANSFER SWITCH (ATS) DAN AUTOMATIC MAINS FAILURE (AMF) PLN DAN GENSET BERBASIS MODUL DEEP SEA ELECTRONICS 4520 MKII

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ABSTRAK

Paula augus akhir ini dilakukan mucang hangun sistem Automatic Transfer Switch (ATS) dan Automatic Mains Failure (AMF) PLN dan generator set herbasis modul Deep Sea Electronics 4520 MKB. Modul Deep Sea Electronics 4520 MKB adalah pendatuan elektronickung dapat dikendalian dan dijungsilan untuk menindahkan posisi sumber senaga liatrik, dari jaringan usuma(PLN) ke sumber tenaga liatrik calangan (genset) ketika pasehan listrik dari jaringan usuma serpatus. Sistem serdiri mengkalan daya, rangkalan kontrol modul DSE 4520 MKB, pilot kamp, reksi, kertaktor, selector switch, emergency susp dan Current Transformer (CT). Dari hasil pegujian diperoleh adanga selisih hasil pembacaan tegangan frekuensi, anas dan cos phi antara mulai DSE 4520 MKB dibandingkan dengan multimeter dan clamp meter. Selisih tegangan selusar 0.88Vac, finkueni 0.016Hz, aras 0.00K dances phi 0.05. Non essential kead tidak aktif sust genset menyaplai beban. ATS dan AMF akan mencata se gangan dari bus sistem ke beban ketika tegangan bersata pada keadaan mermal yaitu 220 wit, dan mencata yanga dibatahkan penset untuk mensuplai beban setelah susting adalah nermal yaitu 50 Hz. Proves down itme vang dibatahkan penset untuk mensuplai beban setelah susting adalah 1 1 detik.

Koto kanci : ATS, AMF, DSE 4520 MKH, Genset, Dovertime.

ABSTRACT

In this final project, the design of Automatic Transfer Switch (ATS) and Automatic Mains Fallure (AMF) PLN and the generator set based on the Deep Sea Electronics 4520 MKH module. The Deep Sea Electronics 4520 MKH module is electronical option of power source, from the main network (PLN) to the backup power source (generator) when the power supply from the main network is lost. System consists of power circuit, DSE 4520 module control circuit, PLN interlock circuit and generator set, non-essential load control circuit, DSE 4520 MKH module, pilot lamp, relay, contactor, selector switch emergency stop and Corrent Transformer (CT). From the test results obtained the difference in the results of voltage readings, frequency, current and cos phi between DSE module 4520 MKH compared with multimater and clamp mater. Difference of voltage equal to 0,88Vac, frequency 0,016Hz, current 0,08A and cosphi 0.06. Non-exertial load is inactive when the generator supplies the load. ATS and AMF will supply the voltage from the system has to the load when the voltage is in the normal state of 220 wits, and feed the frequency from the system has to the load when the frequency of the generator in the normal state is 50 Hz, Down time process required generat to supply the load after the starting is 11 seconds.

Keywords: ATS AMF, DSE 4520 MKB, Gennet, Drewn down.

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