ABSTRACT

Dynamic Voltage Restorer (DVR) is a power electronic equipment has proven its ability to protect sensitive loads from voltage flicker disturbances that occurred in the electrical industry. DVR works only in the event of disruption, whereas in reality the voltage flicker noise does not happen all the time so that DVR to work with standby mode which means only the sensitive load bus monitoring. While not only sensitive to the bus load is protected by the DVR, many inductive load can also lead to lower power factor.

At this final duty conducted the analysis of DVR use as power factor correction using fuzzy logic control polar. Simulation using MATLAB Simulink software 7.1 on steady state conditions. This final task using the current method of phase shift, so that the phase angle difference between voltage and current can be minimized. From the simulation results indicate that the DVR can raise the power factor with the average compensation up to 19.36%.

Keywords: power factor, DVR, fuzzy polar
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