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Protection Systems of the Electricity Transmission Network of the 220kv Ghardaïa - Ouargla Line

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Abstract – The transmission lines and the THT "very high voltage" and high voltage HTB "High voltage type B" electrical power stations constitute an essential part of an electrical network that must ensure the continuity of the electricity supply to HTA "High Voltage type A" and LV "Base Voltage" consumers. This is not always the case, because these lines are often exposed to incidents or faults that can interrupt this service and cause significant financial losses for manufacturers and inconvenience for ordinary consumers.

Since the entry of programmable digital relays on the market in the last fifteen years, for electrical protection, several algorithms have been developed to make these relays more efficient both in terms of their operating speed and their accuracy.

Our work consists of a complete study on the 330 KV transmission network to the high voltage electrical networks of Ghardaïa, by injecting several types of faults in order to deduce the degree of performance and the reliability of the setting thresholds of the protection relays.

Keywords – default, protection, network transports, high voltage, distance protection, digital distance relay
