

ANALISA DAN PERHITUNGAN RELAY ARUS LEBIH GANGGUAN PADA MOTOR BOILER FEED PUMP PT.PJB PACITAN

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ABSTRACT

Protection system very important to secure system Overland Substation Switchboard in PT. PJB Pacitan. Therefore the electricity system in PT. PJB Pacitan must be arranged safely. Disorder occurred are impaired in the phase, and the land cannot be inevitable in the external disruption distribution. Rele used is Over Current Relay (OCR) as protection in the feeder. With 3.4 KV experiencing the failure of a break when disorder happened. In increasing the reliability of PT. PJB Pacitan that is setting repeated his relay. Later on, it is changed conforming to the OCR phase calculation. After that, it was set up with primary 11 kV to 0.12 seconds. The secondary current is 2.01 ampere. As for the ground, the time set is 0.07 seconds, and the secondary current is 0.3 ampere. Next, the rele ocr phase with secondary 3.4 kV to the time 0.11 seconds and the secondary current is 5.1 amperes, lastly, in grounding time 0,17 seconds and the secondary current is 0.8 amperes. It is lot quicker to cut the current disorder and did not break other electrical equipment.

keywords: *Feeder, short circuit, Overcurrent relay, PT. PJB Pacitan, Distribution system.*