

5.5.3 Single or Three Pole Trip Logic (TRIP)	40
5.5.4 Fuse Failure Supervision (FUSE)	41
5.5.5 Communication Scheme	42
5.5.6 General Fault Criteria (GFC)	43
5.5.7 Phase Selection logic (PHS)	45
5.5.8 Power Swing Detection (PSD)	45
5.5.9 General Setting Parameters for The CT's Ratios (Z_{general})	46
5.5.10 Minimum Operating fault Current	46
5.5.11 The Minimum Operating Current (IP) For The Relay	47
Chapter 6: Case Study and Simulation Results	48
6.1 Distance Protection Settings Preparation and Application to The Relay	48
6.1.1 Settings Preparations	48
6.2 Distance Protection Relay Settings Calculations	50
6.2.1 Overhead Lines Impedances Data	50
6.2.2 Fault Locator Parameters	51
6.2.3 Maximum Arc Resistance	52
6.2.4 Resistive Reach	52
6.3 Distance Protection Zones Settings and Application Results	54
6.3.1 Distance Protection Zones Settings for The Three Lines	54
6.3.2 Minimum Load Impedance and Resistance	56
6.3.3 Power Swing Detection (PSD) Settings	58
6.3.4 Phase Selection Logic (PHS) Settings	61
6.3.5 Residual Compensation for Earth Fault Elements	62
6.3.6 General Fault Criteria Settings	63
6.4 Result's Simulation and Discussions	65
6.4.1 Simulation of Results	65
6.4.2 Discussions of Results	67

