# Technical Guide MiCOM P441, P442 & P444 Distance Protection Relays Chapter 2 APPLICATION NOTES

06/01 TG 1.1671-B TECHNICAL GUIDE TG 1 1671-B DISTANCE PROTECTION RELAYS Volume 1 MiCOM P441, P442 & P444 Chapter 2 Contents Page 1 SECTION 1. INTRODUCTION 1 1.1 Protection of overhead lines and cable circuits 1. 1.2 MiCOM distance relay 1. 1.2.1 Protection Features 2 1.2.2 Non-Protection Feetures 3 1.2.3 Additional Features for the P441 Relay Model 4 1.2.4 Additional Features for the P442 Relay Model 4. 1.2.5 Additional Features for the P444 Relay Model 4. SECTION 2. APPLICATION OF INDIVIDUAL PROTECTION FUNCTIONS 5. 2.1 Configuration column 5 2.2 Phase fault distance protection 6 2.3 Earth feuilt distance protection 7 2.3.1 Quadrilateral characteristics 7 2.3.2 Coherences 3 2.4 Distance zone settings 3 2.4.1 Zone Reaches 10 2.4.2 Zone Time Delay Settings 11 2.4.3 Residual Compensation for Earth Fault Elements 11 2.4.4 Remative Reach Calculation - Phase Fault Elements 12 2.4.5 Remative Reach Calculation - Earth Fault Elements 13 2.46 Effects of Mutual Coupling on Distance Settings 13 2.4.7 Effect of Mutual Coupling on Zone 1 Setting 14 2.43 Effect of Mutual Coupling on Zone 2 Setting 14 2.5 Distance protection schemes 15 2.5.1 The Banc Scheme 16 2.5.2 Zone 1 Extension Scheme 17 2.5.3 Loss of Load Accelerated Tripping (LoL) 18 2.6 Channel-sided distance schemes 19 2 6 1 Permissive Underreach Transfer Trip Schemes PUP Z2 and PUP Fwd 20 2.6.1.1 Permissive Underreach Protection, Accelerating Zone 2 (PUP Z2) 21. 2.6.1.2 Permissive Underreach Protection Tripping via Forward Start (PUP Fwd) 22 2.6.2 Permissive Overreach Transfer Trip Schemes POP Z2 and POP Z1.23 2.6.2.1 Permissive Overreach Protection with Overreaching Zone 2 (POP Z2) 23 2.6.2.2 Permissive Overreach Protection with Overreaching Zone I (POP ZI) 24

# **Micom Technical Guide**

**R Barnett** 



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