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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. **GENERAL DATA AND INFORMATION:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Reference Panel** |  | Bus Bar Relay - SET-1 | MiCOM P741 |
| Under testing Panel |  | Bus Bar Relay - SET-2 | REB500 |
| CT Ratio: | 4000/1 A | Operate Current setting : | 4800 A |

1. **STABILITY TEST :**

**BUS BAR DISC. ZONE (LCC PANEL) : ZONE ( 1A ) - MAIN1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel ( )** | **Testing Panel ( )** |
| **Location: XCT4** | **Location: XCT4** |
| **R: 2** | **Y: 4** | **B: 6** | **N: 7**  | **R: 2** | **Y: 4** | **B: 6** | **N: 7** |
| **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** |
| **R** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**ZONE ( 1A ) – MAIN2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel ( )** | **Testing Panel ( )** |
| **Location:**  | **Location:**  |
| **R: 2** | **Y: 4** | **B: 6** | **N: 7**  | **R: 2** | **Y: 4** | **B: 6** | **N: 7** |
| **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** |
| **R** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**BUS BAR DISC. ZONE (BBP PANEL) : ZONE ( 1A ) MAIN-1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **CU** | **PU** |
| **R** | **Y** | **B** | **N** | **R** | **Y** | **B** | **N** |
| **R** | 400 |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |

**ZONE ( 1A ) MAIN-2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **CU** | **PU** |
| **R** | **Y** | **B** | **N** | **R** | **Y** | **B** | **N** |
| **R** | 400 |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |

1. **SENSITIVITY TEST :**

**BUS BAR DISC. ZONE (LCC PANEL) : ZONE ( 1A ) SWAP IN ( ) – MAIN 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel ( )** | **Testing Panel ( )** |
| **Location:**  | **Location:**  |
| **R: 2** | **Y: 4** | **B: 6** | **N: 7**  | **R: 2** | **Y: 4** | **B: 6** | **N: 7** |
| **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** |
| **R** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**ZONE ( 1A ) SWAP IN ( ) – MAIN 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel ( )** | **Testing Panel ( )** |
| **Location:**  | **Location:**  |
| **R: 2** | **Y: 4** | **B: 6** | **N: 7**  | **R: 2** | **Y: 4** | **B: 6** | **N: 7** |
| **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** |
| **R** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**BUS BAR DISC. ZONE (BBP PANEL) : ZONE ( 1A ) MAIN-1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **CU** | **PU** |
| **R** | **Y** | **B** | **N** | **R** | **Y** | **B** | **N** |
| **R** | 400 |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |

**ZONE ( 1A ) MAIN-2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **CU** | **PU** |
| **R** | **Y** | **B** | **N** | **R** | **Y** | **B** | **N** |
| **R** | 400 |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |

1. **SENSITIVITY TEST :**

**BUS BAR DISC. ZONE (LCC PANEL) : ZONE ( 1A ) SWAP IN ( ) – MAIN 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel ( )** | **Testing Panel ( )** |
| **Location:**  | **Location:**  |
| **R: 2** | **Y: 4** | **B: 6** | **N: 7**  | **R: 2** | **Y: 4** | **B: 6** | **N: 7** |
| **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** |
| **R** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**ZONE ( 1A ) SWAP IN ( ) – MAIN 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel ( )** | **Testing Panel ( )** |
| **Location: XCT5** | **Location: XT5** |
| **R: 2** | **Y: 4** | **B: 6** | **N: 7**  | **R: 2** | **Y: 4** | **B: 6** | **N: 7** |
| **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** | **I(mA)** | **Φ°** |
| **R** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**BUS BAR DISC. ZONE (BBP PANEL) : ZONE ( 1A ) MAIN-1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **CU** | **PU** |
| **R** | **Y** | **B** | **N** | **R** | **Y** | **B** | **N** |
| **R** | 400 |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |

**ZONE ( 1A ) MAIN-2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **CU** | **PU** |
| **R** | **Y** | **B** | **N** | **R** | **Y** | **B** | **N** |
| **R** | 400 |  |  |  |  |  |  |  |  |
| **Y** | 400 |  |  |  |  |  |  |  |  |
| **B** | 400 |  |  |  |  |  |  |  |  |

 |