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

|  |  |  |  |
| --- | --- | --- | --- |
| Reference Panel | (=D10) – SPARE FEEDER | CT supervision setting | 12V |
| Under testing Panel | (=D08) – GT-3 | Bus Bar Relay  | REC 670 |
| CT ratio: | 2000/1 | Current setting : | 1440 A |

1. **STABILITY TEST :**

 **BUS BAR DISC. ZONE (LCC PANEL) : ZONE (1B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel (=D10)** | **Testing Panel (=D08)** |
| **Location: CTX5** | **Location: CTX5** |
| **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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

 **BUS BAR DISC. ZONE (BBP PANEL) : ZONE (1B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **BBP DISC. Zone Panel ( D00+R2 )** | **BBP DISC. Zone Panel ( D00+R2 )** |
| **Location: X1** | **Location: X1**  |
| **R :1** | **Y: 3** | **B: 5** | **N: 7** | **R:11** | **Y:13** | **B:15** | **N:17** |
| **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** |
| **R** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Location: Metrosil**  | **Location: Series Resistor** |
| **R: U1** | **Y: U2** | **B: U3** | **R: R1** | **Y: R2** | **B: R3** |
| **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** |
| **R** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **BBP DISC. Zone Panel ( D00+R2 )** | **BBP DISC. Zone Panel ( D00+R2 )** |
| **Location: Shunt Resistor** | **Location: Main relay (REC670) -X101** |
| **R: SHR1** | **Y: SHR2** | **B: SHR3** | **R: 1-2**  | **Y: 3-4** | **B: 5-6** |
| **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** |
| **R** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. **SENSITIVITY TEST :**

 **BUS BAR DISC. ZONE (LCC PANEL) : ZONE (1B) SWAP IN (=D10)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel (=D10)** | **Testing Panel (=D08)** |
| **Location: CTX5** | **Location: CTX5** |
| **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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

 **BUS BAR DISC. ZONE (BBP PANEL) : ZONE (1B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Protection** | **Setting****Voltage (V)** | **Pick Up** | **Current (mA)** |
| **Primary Current (A)** | **Secondary Current (mA)** | **Voltage (V)**  | **T.B. Current** | **CT Supvn REC670** | **REC670** | **Metrosil**  |
| **Series**  | **Shunt**  | **REC670** |
| **Bus Diff.****Relay****REC670** | **R** | **120** |  |  |  |  |  |  |  |  |  |
| **Y** | **120** |  |  |  |  |  |  |  |  |  |
| **B** | **120** |  |  |  |  |  |  |  |  |  |

1. **SENSITIVITY TEST :**

 **BUS BAR DISC. ZONE (LCC PANEL) : ZONE (1B) SWAP IN (=D08)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel (=D10)** | **Testing Panel (=D08)** |
| **Location: CTX5** | **Location: CTX5** |
| **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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

 **BUS BAR DISC. ZONE (BBP PANEL) : ZONE (1B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Protection** | **Setting****Voltage (V)** | **Pick Up** | **Current (mA)** |
| **Primary Current (A)** | **Secondary Current (mA)** | **Voltage (V)**  | **T.B. Current** | **CT Supvn REC670** | **REC670** | **Metrosil**  |
| **Series**  | **Shunt**  | **REC670** |
| **Bus Diff.****Relay****REC670** | **R** | **120** |  |  |  |  |  |  |  |  |  |
| **Y** | **120** |  |  |  |  |  |  |  |  |  |
| **B** | **120** |  |  |  |  |  |  |  |  |  |

1. **STABILITY TEST :**

 **BUS BAR DISC. ZONE (LCC PANEL) : ZONE (2B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel (=D10)** | **Testing Panel (=D08)** |
| **Location: CTX5** | **Location: CTX5** |
| **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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

 **BUS BAR DISC. ZONE (BBP PANEL) : ZONE (2B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **BBP DISC. Zone Panel ( D00+R2 )** | **BBP DISC. Zone Panel ( D00+R2 )** |
| **Location: X1A** | **Location: X1A**  |
| **R :1** | **Y: 3** | **B: 5** | **N: 7** | **R: 11** | **Y: 13** | **B: 15** | **N: 17** |
| **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** |
| **R** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Location: Metrosil**  | **Location: Series Resistor** |
| **R : U1** | **Y: U2** | **B: U3** | **R: R4** | **Y: R5** | **B: R6** |
| **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** |
| **R** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **BBP DISC. Zone Panel ( D00+R2 )** | **BBP DISC. Zone Panel ( D00+R2 )** |
| **Location: Shunt Resistor** | **Location: Main relay (REC670) -X101** |
| **R: SHR4** | **Y: SHR5** | **B: SHR6** | **R: 1-2**  | **Y: 3-4** | **B: 5-6** |
| **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** | **I(mA)** | **V** |
| **R** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. **SENSITIVITY TEST :**

 **BUS BAR DISC. ZONE (LCC PANEL) : ZONE (2B) SWAP IN (=D10)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel (=D10)** | **Testing Panel (=D08)** |
| **Location: CTX5** | **Location: CTX5** |
| **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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

 **BUS BAR DISC. ZONE (BBP PANEL) : ZONE (2B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Protection** | **Setting****Voltage (V)** | **Pick Up** | **Current (mA)** |
| **Primary Current (A)** | **Secondary Current (mA)** | **Voltage (V)**  | **T.B. Current** | **CT Supvn REC670** | **REC670** | **Metrosil**  |
| **Series**  | **Shunt**  | **REC670** |
| **Bus Diff.****Relay****REC670** | **R** | **120** |  |  |  |  |  |  |  |  |  |
| **Y** | **120** |  |  |  |  |  |  |  |  |  |
| **B** | **120** |  |  |  |  |  |  |  |  |  |

1. **SENSITIVITY TEST :**

 **BUS BAR DISC. ZONE (LCC PANEL) : ZONE (2B) SWAP IN (=D08)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Primary****Current****(A)** | **Reference Panel (=D10)** | **Testing Panel (=D08)** |
| **Location: CTX5** | **Location: CTX5** |
| **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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Y** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

 **BUS BAR DISC. ZONE (BBP PANEL) : ZONE (2B)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Protection** | **Setting****Voltage (V)** | **Pick Up** | **Current (mA)** |
| **Primary Current (A)** | **Secondary Current (mA)** | **Voltage (V)**  | **T.B. Current** | **CT Supvn REC670** | **REC670** | **Metrosil**  |
| **Series**  | **Shunt**  | **REC670** |
| **Bus Diff.****Relay****REC670** | **R** | **120** |  |  |  |  |  |  |  |  |  |
| **Y** | **120** |  |  |  |  |  |  |  |  |  |
| **B** | **120** |  |  |  |  |  |  |  |  |  |

 |