#### GENERAL DATA AND INFORMATION:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Panel No. |  |  | Designation | 87B/95B |
| Serial No. |  | Rated Voltage | 125 VDC |
| Make |  | Aux. Voltage | 110 – 250 VAC/DC |
| CT Ratio | 2000/1A | Frequency | 50 – 60 Hz |

#### MECHANICAL CHECKS AND VISUAL INSPECTION:

|  |  |  |  |
| --- | --- | --- | --- |
| ITEM | DESCRIPTION | CHECKED | |
| 1 | Inspect for physical damage / defects. | ❑ Yes | ❑ N/A |
| 2 | Verify Connections as per approved drawings. | ❑ Yes | ❑ N/A |
| 3 | Check tightness of all connections. | ❑ Yes | ❑ N/A |
| 5 | Check apparatus lists. | ❑ Yes | ❑ N/A |
| 6 | Check ferrules | ❑ Yes | ❑ N/A |
| 7 | Test Switch checked for correct function. | ❑ Yes | ❑ N/A |
| 8 | Check case earthing. | ❑ Yes | ❑ N/A |
| 9 | Watchdog contact (X319:3 , X319:2) | ❑ Yes | ❑ N/A |

#### ELECTRICAL TESTS: With relay energized condition

|  |  |  |  |
| --- | --- | --- | --- |
| ITEM | DESCRIPTION | CHECKED | |
| 1 | Measured auxiliary supply. | ❑ Yes | ❑ N/A |
| 2 | Clock set at local time. | ❑ Yes | ❑ N/A |
| 3 | Time maintained when auxiliary supply removed. | ❑ Yes | ❑ N/A |
| 5 | Relay healthy (green) LED working. | ❑ Yes | ❑ N/A |
| 6 | Trip (red) LED working. | ❑ Yes | ❑ N/A |

**INDICATION LED TEST**

**LED Checks:**

Go to hardware test to view the physical position of the LED.

|  |  |  |  |
| --- | --- | --- | --- |
| **OPTO Input Number** | **Result Display On or Off** | | **Function** |
| LED 1 | ❑ Yes | ❑ N/A |  |
| LED 2 | ❑ Yes | ❑ N/A |  |
| LED 3 | ❑ Yes | ❑ N/A |  |
| LED 4 | ❑ Yes | ❑ N/A |  |
| LED 5 | ❑ Yes | ❑ N/A |  |
| LED 6 | ❑ Yes | ❑ N/A |  |
| LED 7 | ❑ Yes | ❑ N/A |  |
| LED 8 | ❑ Yes | ❑ N/A |  |
| LED 9 | ❑ Yes | ❑ N/A |  |
| LED 10 | ❑ Yes | ❑ N/A |  |
| LED 11 | ❑ Yes | ❑ N/A |  |
| LED 12 | ❑ Yes | ❑ N/A |  |
| LED 13 | ❑ Yes | ❑ N/A |  |
| LED 14 | ❑ Yes | ❑ N/A |  |
| LED 15 | ❑ Yes | ❑ N/A |  |

#### SERIES & SHUNT RESISTOR MEASUREMENTS:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PHASE** | **SERIES RESISTOR** | | **SHUNT RESISTOR** | |
| SETTING (Ω) | MEASURED (Ω) | SETTING (Ω) | MEASURED (Ω) |
| R – N |  |  |  |  |
| Y – N |  |  |  |  |
| B – N |  |  |  |  |

1. **PICK UP & DROP OFF TEST FOR CT SHORTING:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CURRENT SETTING** | **R – PHASE** | | **Y - PHASE** | | **B -PHASE** | |
| Pickup V | Drop-off V | Pickup V | Drop-off V | Pickup V | Drop-off V |
|  |  |  |  |  |  |  |

1. **OPERATING TIME TEST FOR CT SHORTING:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TIME SETTING** | **APPLIED**  **VOLTAGE** | **R – PHASE** | **Y - PHASE** | **B -PHASE** |
| Pickup (sec) | Pickup (sec) | Pickup (sec) |
|  |  |  |  |  |

1. **PICK UP & DROP OFF TEST FOR HIGH IMPEDANCE DIFFERENTIAL:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CURRENT SETTING** | **R – PHASE** | | | **Y - PHASE** | | | **B -PHASE** | | |
| Pickup mA | Drop-off mA | Pickup V | Pickup mA | Drop-off mA | Pickup V | Pickup mA | Drop-off mA | Pickup V |
|  |  |  |  |  |  |  |  |  |  |

1. **OPERATING TIME TEST FOR HIGH IMPEDANCE DEFFIERENTIAL:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TIME SETTING** | **APPLIED**  **VOLTAGE** | **R – PHASE** | **Y - PHASE** | **B -PHASE** |
| Pickup (msec) | Pickup (msec) | Pickup (msec) |
|  |  |  |  |  |