#### 1. GENERAL DATA AND INFORMATION:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Circuit Ref. |  |  | Designation |  |
| Panel No. |  |  | Serial No. |  |
| Make |  |  | Model No. |  |
| Dwg & Sh No. |  |  | Aux. Voltage |  |
| Flag Type |  |  | No. of Contacts |  |
| Stabilizing Resistor |  |  |  |  |

#### 2. MECHANICAL CHECKS AND VISUAL INSPECTION:

|  |  |  |
| --- | --- | --- |
| ITEM | DESCRIPTION | CHECKED |
| 1 | Inspect for any physical damage or defects. |  |
| 2 | Verify connections as per approved drawings. |  |
| 3 | Check that serial no. of relay matching with serial no. of case. |  |
| 4 | Relay CT shorting function checked. |  |
| 5 | Test switch test for correct function |  |
| 6 | Final set value of stabilizing resistor is set |  |

#### 3. ELECTRICAL TESTS:

**3.1 RELAY BURDEN:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Condition | Relay DC voltage | Relay DC current | Nominal DC current | Remarks |
| No Operation |  |  |  |  |
| Operation |  |  |  |  |

**3.2 PICK UP TEST:**

(Operation Values Without Pilots) ---Setting: Rpp = 5 x100, Ks = 1, Kt = 20, N = 3.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phase | Operating Value | Calculated Value (mA) | Actual Operating Value (mA) | |
| Pick up (mA) | Reset (mA) |
| R -N |  |  |  |  |
| Y – N |  |  |  |  |
| B – N |  |  |  |  |
| R – Y |  |  |  |  |
| Y - B |  |  |  |  |
| B - R |  |  |  |  |

NOTE: PICK UP CURRENT SHOUL BE +/- 10% OF CALCULATED VALUE

**3.3 PICK UP TEST (CONN.):**

(Operation Values Without Pilots) ---Setting: Rpp = 5x100, Ks = 1, Kt = 20, N = 6.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phase | Operating Value | Calculated Value | Actual Operating Value (mA) | |
| Pick up (mA) | Reset (mA) |
| R – N |  |  |  |  |
| Y – N |  |  |  |  |
| B – N |  |  |  |  |

NOTE: PICK UP CURRENT SHOULD BE +/- 10% OF CALCULATED VALUE:

**3.3 TIMING TEST:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Phase | Current =  5 x Pick Up | Actual Operating Time at Multiple of KT in milliseconds | | | | |
|  | 6 | 14 | 20 | 40 |
| R – N |  | Typical |  |  |  |  |
|  | Actual |  |  |  |  |

#### 4. FUNCTIONAL TEST:

|  |  |  |
| --- | --- | --- |
| Item | Description | Checked |
| 1 | All output contacts resistance measured. |  |
| 2 | All LED operation checked. |  |
| 3 | No Operation for Pilot shorted for secondary injection of 5xIn |  |