#### GENERAL DATA AND INFORMATION:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Circuit. |  |  | Serial no: |  |
| Panel No. |  |  | Model no: | **MVTP31V1CB0751E** |
| Make: |  |  | Aux. supply | 110 – 125 V |
| Flag type | HAND RESET |  | No of contacts | 5 Make Contacts |
| Frequency | 50/60 HZ |  | Setting Range | 2, 4, 6, 8, 10, 12, 14V |

#### 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. |  |

#### ELECTRICAL TESTS:

###### RELAY BURDEN:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Condition** | **Relay DC voltage** | **Relay DC current** | **Burden** | **Remarks** |
| No operation | 125 VDC |  |  |  |
| Operation | 125 VDC |  |  |  |

**Note:** For 48/54 V burden no operation/operation = 1.3/4.86W

For 110/125V burden no operation/ operation = 3.0 / 4.37W.

###### PICKUP TEST:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Voltage Setting (V) | **R** | | | **Y** | | | **B** | | |
| Pick up (V) | Drop off (V) | DO/PU Ratio | Pick up (V) | Drop off (V) | DO/PU Ratio | Pick up (V) | Drop off (V) | DO/PU Ratio |
| **5** | V | V | % | V | V | % | V | V | % |
| **10** | V | V | % | V | V | % | V | V | % |

**Note:** Pickup voltage +/-5% Vs. Drop off/ Pickup ratio >85% after 3 sec delay.

* 1. **TIMING TEST:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Contacts No.** | **Actual Operating time at 2xVs** | **Expected operating time (sec)** |
| **R** | 1 – 3 |  | 3 +/-5% |
| **Y** | 2 – 4 |  | 3 +/-5% |
| **B** | 6 – 8 |  | 3 +/-5% |

###### FINAL SETTING:

Relay final voltage setting:

###### PICKUP TEST:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Voltage Setting (v) | **R** | | | **Y** | | | **B** | | |
| Pick up (V) | Drop off (V) | DO/PU Ratio | Pick up (V) | Drop off (V) | DO/PU Ratio | Pick up (V) | Drop off (V) | DO/PU Ratio |
| **14 V** | V | V | % | V | V | % | V | V | % |

**Note:** Pickup voltage +/-5% Vs. Drop off/ Pickup ratio >85% after 3 sec delay.

#### FUNCTIONAL TEST:

#### 

|  |  |  |
| --- | --- | --- |
| **ITEM** | **DESCRIPTION** | **CHECKED** |
| 1 | All contacts checked. |  |
| 2 | Flag operation checked. |  |
| 3 | Test Switch Isolation Checked |  |
| 4 | CT Bus Shorting Contacts Checked |  |