1. **GENERAL DATA AND INFORMATION:**

Sl no**:**  Manufacturer**:**

Rating**:**  Duty/function**:**

Ratio**:** Class**:**

Va**:**

1. **MECHANICAL CHECKS & VISUAL INSPECTION:**

|  |  |  |
| --- | --- | --- |
| Item | Description | Checked |
| 1 | Check no damage on installed equipment |  |
| 2 | Check grounding cable are connected as per drawing |  |
| 3 | Check tightness for links |  |
| 4 | Check ferrules as per the wiring connections |  |
| 5 | Check CT name plate data for correctness |  |

1. **ELECTRICAL TEST**
   1. **INSULATION RESISTANCE TEST:**

|  |  |  |  |
| --- | --- | --- | --- |
| Phase | Insulation resistance (mΩ) | | Remarks |
| Primary - earth |  |  |  |
| Primary - secondary |  |  |  |
| Secondary - earth |  |  |  |

Applying voltages**:**

* Primary To Ground : 5 KV for 1 minute
* Primary To Secondary : 2.5 KV for 1 minute
* Secondary To Ground : 1KV for 1 minute

Criteria**:**

* Primary to ground & primary to secondary = More than 1 G.Ω
* Secondary to ground = More than 100 M.Ω
  1. **WINDING RESISTANCE:**

Ambient temp: oC

|  |  |  |
| --- | --- | --- |
| Phase | Primary Winding | |
| at oC | at 75 oC |
| N |  |  |

|  |  |  |
| --- | --- | --- |
| Phase | Secondary Winding 1 | |
| at oC | at 75 oC |
| n |  |  |

R75 = Rt (234.5 +75) / (234.5 + t)

Where,

t is ambient temp,

Rt is resistance at ambient temp

Criteria**:**

* 1. **POLARITY TEST:**

|  |  |
| --- | --- |
| Phase | N |
| Core | 1S1 - 1S2 |
|  |  |

* 1. **RATIO TEST :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Core | Primary current (A) | Secondary current (A) | Expected current | % error |
| S1 – S2 |  |  |  |  |

Criteria:

1. **SINGLE POINT EARTH TEST:**

|  |  |  |  |
| --- | --- | --- | --- |
| Core no | Function | T.b.no | Single point earthing check |
|
| S1 – s2 |  |  |  |
|

1. **CHECK SHORT & ISOLATED LINK FOR PROPER FUNCTION:**

|  |  |  |
| --- | --- | --- |
| Core no | Function | Confirm test for short and isolated check |
|
| S1 – s2 |  |  |

1. **MAG - CURVE:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Function: |  | Location |  |  | CT# |  |
| Make: |  | Phase |  |  | Ratio |  |
| V kp: |  | SL # |  |  | Class |  |
| I mag |  | SL # |  |  | Burden |  |
| Earthed |  | SL # |  |  | R ct |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ter. |  | |  |  |  |  |  |  |
| Sl.# | V | I mA | |  | | --- | |  | |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |
| Vkp |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Criteria**:**