1. **GENERAL DATA AND INFORMATION**

Bay No. : Aux. Voltage :

Bay Name : Serial No. :

Manufacturer : Order No. :

Drawing and Sh. No. : Conn. Diag. No. :

1. **RELAY SETTINGS**

Current Setting I>: I>>:

Curve Setting: blocking voltage:

Angle: Direction:

1. **LOAD MEASUREMENT:** 
   1. (Control Panel)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Load | Current A | Active Power MW | Import/Export | Reactive power MVAR | Import/Export |
| Local |  |  |  |  |  |
| Remote |  |  |  |  |  |

* 1. Relay Measurement: (for digital relays)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Load | Current A | Active Power MW | Import/Export | Reactive power MVAR | Import/Export |
| Local |  |  |  |  |  |
| Remote |  |  |  |  |  |

1. Directional Check: (Ref: 5.23.3 of TCS-P - 105-R1):
   1. The voltage terminals connected from open delta connection of VT

The faulty voltage phase should be simulated by removing this phase terminals and connect the open delta terminals to the other two phases.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Fault Type | Short  & isolate Current phases | phase Current terminals status | Measured current value | Open delta voltage phases | Measured voltage value | Measured Angle | Relay Action | Directionality result | |
| OK | NOT OK |
| R-E | Y& B | normal |  | Y-B |  |  |  |  |  |
| Y& B | Reverse |  | Y-B |  |  |  |  |  |
| Y-E | R & B | normal |  | B-R |  |  |  |  |  |
| R & B | Reverse |  | B-R |  |  |  |  |  |
| B-E | R & Y | normal |  | R-Y |  |  |  |  |  |
| R & Y | Reverse |  | R-Y |  |  |  |  |  |

* 1. The voltage terminals connected from phase of VT

The faulty voltage phase should be simulated by isolate this phase terminal block.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Fault type | Short  & isolate Current phases | phase Current terminals status | Measured current value | Remaining connected voltage phases | Measured voltage value | Measured Angle | Relay Action | Directionality result | |
| OK | NOT OK |
| R-E | Y& B | normal |  | Y-B |  |  |  |  |  |
| Y& B | Reverse |  | Y-B |  |  |  |  |  |
| Y-E | R & B | normal |  | B-R |  |  |  |  |  |
| R & B | Reverse |  | B-R |  |  |  |  |  |
| B-E | R & Y | normal |  | R-Y |  |  |  |  |  |
| R & Y | Reverse |  | R-Y |  |  |  |  |  |