

CT Supervision Relay Testing Checklist

CT Supervision Relay

1). General Data and Information

Circuit	Model No
Panel No.	Aux. Supply
Make:	No of contacts
Frequency	R Phase Sl. No
Flag type	Y Phase Sl. No
Setting Range	B Phase Sl. No

2). Mechanical Checks and Visual Inspection

S. No	Description	Checked
1	Inspect for any physical damage or defects.	
2	Verify connections as per approved drawings.	
3	Check the tightness of all connections.	
4	Check ferrules.	
5	Check apparatus lists.	
6	Check that serial no. of relay matching with serial no. of case.	

3). Electrical Tests

A). Preliminary Test

FUNCTION	R	Y	B
Test Switch Isolation Checked			
CT Bus Shorting Contacts Checked			

B). Relay Burden Test

Condition	Relay DC voltage			Relay DC current			Burden		
	R	Y	B	R	Y	B	R	Y	B
No operation									
Operation									

Note

- For 48/54 V burden operation/no operation = 1.3/4.86W
- For 110/125V burden operation/ no operation = 3.0 / 4.37W

	Test Done By	Test Verified by	Test Date
Name			
Signature			

CT Supervision Relay Testing Checklist

C). 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
2									
3									
5									
9									

Note

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

D). Timing Test

Phase	Contacts No.	Actual Operating time at 2xVs	Expected operating time (s)
R			3 +/-5%
Y			3 +/-5%
B			3 +/-5%

E). Final Setting

Relay final current setting:

F). 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

	Test Done By	Test Verified by	Test Date
Name			
Signature			

CT Supervision Relay Testing Checklist

4). Functional Test

S. No	Description	Checked
1	All contacts checked.	
2	All output contacts resistance measured.	
3	Flag operation checked.	

	Test Done By	Test Verified by	Test Date
Name			
Signature			