

TITLE: Instruction for Inspection and Testing of '3-PH PROTECTION PCB ASSY' (017.01.008.0350)

1.0 SCOPE

1.1 Applicable for testing of 3-ph Protection PCB Assy. as per BOM 017.01.008.0350:

2.0 DETAILS OF THE INSTRUCTION

2.1 Inspection / Measuring / Test Equipment. :

2.1.1 AC Power Supply

2.1.2 Digital Multimeter.

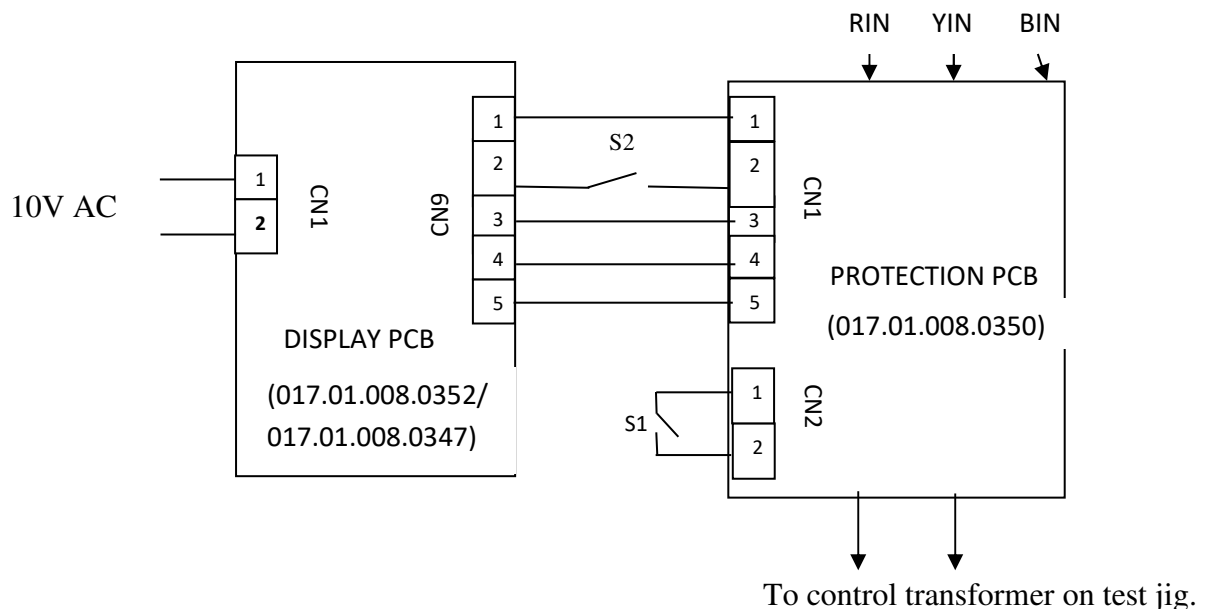
2.2 Record the test results in the test report as the testing Progresses. **(INSP4678/I5/R2)**

2.3 In the case of any nonconformity at any stage of inspection and testing. Refer to the procedure NCCR2001.

2.4 For visual inspection and vibration test refer to the inspection instruction INSP3207.

3.0 ELECTRICAL TEST:

3.1 Connect the PCB under test, as per the given below connection diagram.



- 3.2 As per given above Connection diagram. Apply Input power supply 415V, 3Ph 50Hz to 3-Phase Protection
PCB at RIN, YIN & BIN Position.
- 3.3 Apply AC supply 0-10V to display PCB.
- 3.4 Mains ON LED will glow after switching on 10V AC Power Supply.
- 3.5 Keep switch S1 on OFF position and ERR CONNECTION switch ON position.
- 3.6 Now check the error signal on display pcb as per table given below:

NO	TEST DESCRIPTION	TEST CONDITION	VOLTAGE LEVELS	ERROR ON DISPLAY PCB
1	NORMAL TEST	APPLY 3 PHASE 415V AC 50HZ SUPPLY TO RIN, YIN & BIN		NO ERROR
2	UNDER VOLTAGE TEST	DECREASE VOLTAGE BELOW 345V AC	BETWEEN 290VAC TO 340VAC	ERR 1
3	OVER VOLTAGE TEST	INCREASE VOLTAGE ABOVE 475V AC	BETWEEN 475VAC TO 490VAC	ERR 2
4	SINGLE PHASE TEST FOR R PHASE	REMOVE R PHASE @415V		ERR 1
5	SINGLE PHASE TEST FOR Y PHASE	REMOVE Y PHASE @415V AC		Display PCB OFF
6	SINGLE PHASE TEST FOR B PHASE	REMOVE B PHASE @415V AC		Display PCB OFF
7	TEMP TRIP TEST	SWITCH ON SWITCH S1		ERR 3

Note: In case of Single-Phase test, please insulate the test jig phase wire for human safety.