

ADOR WELDING LIMITEDWELDING EQUIPMENT GROUP

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

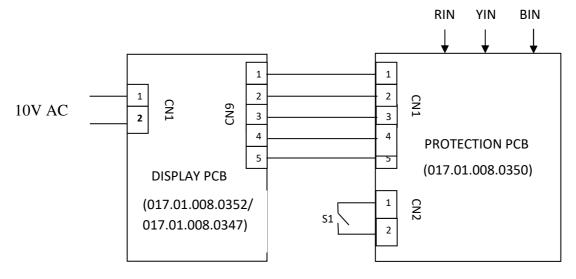
- 1.0 SCOPE
- 1.1 Applicable for testing of 3-ph Protection PCB Assy. as per BOM 017.01.008.0350:

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/R0)
- 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 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 as per given above Connection diagram.

- 3.4 Mains ON LED will glow after switching on 10V AC Power Supply.
- 3.5 Keep switch S1 on OFF 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 360V AC	BETWEEN 330VAC TO 360VAC	ERR 1
3	OVER VOLTAGE TEST	INCREASE VOLTAGE ABOVE 480V AC	ABOVE 475VAC TO 480VAC	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		ERR 1
6	SINGLE PHASE TEST FOR B PHASE	REMOVE B PHASE @415V AC		ERR 1
7	TEMP TRIP TEST	SWITCH ON SWITCH S1		ERR 3
8	PROTECTION BYPASS ERROR	REMOVE CONNECTOR CN1		ERR 11

Note: In case of Single-Phase test for R Phase & B Phase, No error will be displayed as display PCB will become off.