



Order Number

Serial Number

2P40N203 TEST PROCEDURE

PHASE FAILURE RELAY

1. TEST EQUIPMENT REQUIRED

- 3 Phase AC Variable Power Supply.
- HV Test Equipment.
- Digital Volt Meter.

2. ASSOCIATED DRAWINGS

- 651-096-203 Circuit Diagram PCB
- 651-096-303 Loading Diagram PCB

3. HIGH VOLTAGE TESTING

- 1 Apply 2KV RMS 50 Hz between terminal groups 1 and 2 in table 1 for 1 minute.
- 2 Apply 3 5KV 1/50us pulses of each polarity between terminal groups 1 and 2 in table 1.

TABLE 1

GROUP 1
All Terminals

GROUP 2
50 + Frame

4. CALIBRATION & TEST PROCEDURE

1. Set Sensitivity Pot to 5 % (fully clockwise).
Apply 3 \emptyset 110 volts and adjust R1 until minimum volts appear across C2.

4. CALIBRATION PROCEDURE (Cont)

2. Set Sensitivity Pot to 15 % (anti-clockwise).
Set all phases to 88 volts and adjust R7 until relay drops out.

Drop out 88 V \pm 2 V V

3. Set BY phase to 110 v. The relay should drop out when the RB /RY phase is reduced to 93.5 V. Adjust R5 if necessary.

Drop out 93.5 V \pm 3 V V

4. Set sensitivity Pot to 5 %. The relay should drop out when the RB /RY phase is reduced to 104.5 V

Drop out 104.5 V \pm 3 V V

5. GENERAL & FUNCTIONAL

Check operation of change over relay.

Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026

PASS

TESTED BY : _____ DATE : _____