



Order Number

Serial Number

PRODUCT/TEST MANUAL

2P540K1

PHASE FAIL RELAY

Issue Level	Date	Summary of changes
A	02/11/2001	Initial issue.
B	21/11/2001	Pick volts para 3.2 & 4.1 changed to < 103 V
C	25/11/2003	6 b) amended to 110V.
D	14/10/2005	Test points corrected
E	26/05/2008	TfA 61549 Issue E

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6. CALIBRATION & TEST PROCEDURE (Cont).

- e) Set the three-phase supply to the nominal line voltage. Decrease all three phases slowly to 88V. Adjust trimpot R14 until the relay just drops out. Slowly increase voltage until the relay picks up. The pick up voltage should be less than 108 volts return all phases to normal line voltage.

	Nominal	Actual
Drop out	86-90 volts	
Pick up	< 108 volts	

- f) Set the phase imbalance potentiometer to 15 % (fully anticlockwise). Decrease yellow phase so that the BLUE-YELLOW line voltage is 93.5 volts. Adjust R21 until the relay drops out. Increase voltage and check that the relay picks up < 103 volts.

	Nominal	Actual
Drop out	93.5 volts	
Pick up	< 103 volts	

- g) Set the phase imbalance potentiometer to 5 % (fully clockwise). Decrease yellow phase so that the BLUE-YELLOW line voltage is 104.5 volts. Adjust R23 until the relay drops out. Increase voltage and check that the relay picks up less than 108 volts.

	Nominal	Actual
Drop out	104.5 volts	
Pick up	< 108 volts	

- h) Check that the operation time is less than 2.2 seconds and greater than 1 second, when one phase is restored to nominal levels.

7. GENERAL & FUNCTIONAL

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

PASS

TESTED BY : _____ DATE : _____

8. CONNECTION DIAGRAM

