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

GROUP 1 GROUP 2
All Terminals 50 + Frame

### 4. CALIBRATION & TEST PROCEDURE

1. Set Sensitivity Pot to 5 % (fully clockwise).

Apply 3 Ø 110 volts and adjust R1 until minimum volts appear across C2.



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# 4. CALIBRATION PROCEDURE (Cont)

Out Contain	ity i ot to 13 /8 (anti-	GIOGRANISE).			
Set all phase	Set all phases to 88 volts and adjust R7 until relay drops out.				
Drop out	88 V ± 2 V	V			
•		•	he RB /RY		
Drop out	93.5 V ±3 V	V			
		relay should drop out when the	RB/RY		
Drop out	104.5 V ±3 V	V			
5. GENERAL & FUNCTIONAL					
Check opera	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	<b>/</b> :	DATE :			
	Drop out  Set BY pha phase is red  Drop out  Set sensitivity phase is red  Drop out  ENERAL & FUN  Check operations of the chart to per Standar	Set all phases to 88 volts and additional and the set of the phase of the set of the phase is reduced to 93.5 V. Adjusted Drop out 93.5 V ±3 V  Set sensitivity Pot to 5 %. The rephase is reduced to 104.5 V. Drop out 104.5 V ±3 V.  ENERAL & FUNCTIONAL  Check operation of change over the check that the relay is electrical.	Drop out $88 \text{ V} \pm 2 \text{ V}$ V  Set BY phase to 110 v. The relay should drop out when the phase is reduced to 93.5 V. Adjust R5 if necessary.  Drop out $93.5 \text{ V} \pm 3 \text{ V}$ V  Set sensitivity Pot to 5 %. The relay should drop out when the phase is reduced to 104.5 V  Drop out $104.5 \text{ V} \pm 3 \text{ V}$ V  ENERAL & FUNCTIONAL  Check operation of change over relay.  Check that the relay is electrically sound and mechanically reper Standard Inspection & Test Schedule 903-000-026		