



PRODUCT/TEST MANUAL

2V550K2

VOLTAGE SENSING RELAY

Order Number

Serial Number

Issue	Date	Summary of changes
A	8/05/01	Initial issue.

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ERL	MW	MW	

1. BROAD DESCRIPTION OF RELAY

The 2V550K2 is a voltage sensing relay which measures the voltage drop across a shunt and is calibrated in Amps. The contacts of the voltage sensing element are fed to a 1 – 10 second timer which is in turn connected to the out 6R relay. The output relay is a heavy duty 6R element with latched contacts and flag.

2. SPECIFICATIONS

DC SENSING VOLTAGE	40 - 60 mV
SETTING SCALE	200 – 400 Amps
SETTING ACCURACY	+/- 10% of setting
AMBIENT TEMPERATURE RANGE	-5 to 55 ^o c

3. TEST EQUIPMENT REQUIRED

Auxiliary DC Power Supply
Digital Voltmeter
Decade Box
High Voltage Test Equipment

4. ASSOCIATED DRAWINGS

165-550-102	Wiring Diagram
690-013-250	Circuit Diagram
690-013-350	Loading Diagram
165-550-702	Front Label

5. HIGH VOLTAGE TESTING

- Apply 2KV RMS between the terminal groups as listed in A & B below for 1 minute.
- Apply three 5KV 1/50usec pulses of each polarity as listed in A & B below.

GROUP A

All terminals

GROUP B

Frame

6. CALIBRATION AND TEST PROCEDURE

6.1 Voltage Sensing

- a) Calibrate the voltage sensing PCB as per instruction sheet 165-731-900 using the 30 – 60 volt adjustment procedure.

PASS

6.3 Timing Checks

- a) Set the timer to minimum scale (1 second) set the current calibrated setting PU dial to mid scale (1500 Amps) and apply 60 mV to terminals 1 & 3 and check that the output relay operates after the 1 second delay.

Pass

- b) Repeat (a) with the timer set to maximum scale (10 seconds)

Pass

7. GENERAL & FUNCTIONAL

- a) Check for correct operation of mechanical flag.
- b) 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

