



PRODUCT / TEST MANUAL

3A31N1

TRIP 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

This relay is a Trip Relay with a mechanical shutter and is supplied to the State Electrical Utilities. Their type number is ARTVC - 1271. Details can be found in the Electricity Utilities "25" Series drawings.

2. SPECIFICATIONS

Refer to drawing OM60/25/141D

3. TEST EQUIPMENT REQUIRED

- DC Voltage and Current Source.
- Digital Volt and Current Meter.
- High Voltage Test Equipment.

4. ASSOCIATED DRAWINGS

5. HIGH VOLTAGE TESTING

Apply 2KV RMS 50 Hz between terminal groups 1 and 2 in table 1 for 1 minute.

Group 1	Group 2
15 - 18	3 - 6, 7 - 10, 11 - 14
11 - 14	3 - 6, 7 - 10, 15 - 18
3 - 6	7 - 10, 11 - 14, 15 - 18
7 & 8	9 & 10
All terminals	Frame

6. CALIBRATION & TEST PROCEDURE

- a) Apply Voltage and Current as per the table below, relay must operate within these figures. Apply voltage and current separately then apply simultaneously, relay must remain operated.

		<u>Minimum</u>	<u>Maximum</u>	<u>Nominal</u>	<u>Actual</u>
Voltage (Volts)	Pick up	13.05	15.95	14.5	<input type="text"/>
	Drop out	4.5	5.5	5.0	<input type="text"/>
Current (Amps)	Pick up	3.06	3.74	3.4	<input type="text"/>
	Drop out	.99	1.21	1.1	<input type="text"/>

7. GENERAL & FUNCTIONAL

8. 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

