

Order Number

Serial Number

## PRODUCT TEST MANUAL

**3A32K40**

**TRIP INDICATOR RELAY**

<b>Issue Level</b>	<b>Date</b>	<b>Summary of changes</b>
D	16/11/1999	Initial issue.
E	10/01/00	Item 1.2 Added. TfA was Issue B
F	26/10/01	TfA 175101 Issue D
G	20/01/09	Update for TfA 175101 Issue E
H	16/09/10	Added insulation resistance testing of all units

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ERL	DG	DG	

**1. ASSOCIATED DRAWINGS**

This Product Test Manual is in reference to  
 TfA 175101 Issue F 08/09/09

**2. INSULATION RESISTANCE CHECK**

Check the insulation resistance at 500VDC for the following cases in Table 1. Note that the resistance shall be **no less than 100MΩ**.

**Table 1**

Group 1	Group 2
Each coil	All other connections
Each contact set	All other connections
Across each open contact (latched and unlatched conditions)	

**3. HIGH VOLTAGE TESTING**

- a) Apply 2kV RMS 50Hz between terminal Groups 1 and 2 in Table 2 for 1 minute.
- b) Apply three 5kV 1/50us pulses of each polarity between terminal Groups 1 and 2 in Table 2.

**Table 2**

Group 1	Group 2
Each coil	All other connections and Frame
Each contact set	All other connections and Frame

**4. TEST PROCEDURE**

- a) Check coil resistance is 0.2 Ω +/- 5% for each relays.
- b) Operate current less than 0.5A DC  
 Release current is not critical

<b>RELAY A</b>	Pickup Current	<input type="text"/>	<b>A</b>
<b>RELAY B</b>	Pickup Current	<input type="text"/>	<b>A</b>

**4. GENERAL & FUNCTIONAL**

- a) Check that the relay is engraved with stockcode number 175101
- b) Check that the relay is shockproof and that the flag reset mechanism operates correctly.
- c) Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026.

**PASS**

TESTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_