

Order Number

Serial Number

PRODUCT TEST MANUAL

3A32K73

AUXILIARY RELAY

Issue Level	Date	Summary of changes
A	09/07/09	Initial issue.
B	16/09/10	Added insulation resistance testing of all units
C	04/12/14	Update to highlight current pickup thresholds

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1. ASSOCIATED DRAWINGS

This Product Test Manual is in reference to
 TfA 181341 Issue A 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
<u>Each</u> coil	All other connections
Each contact set	All other connections
Across each normally open contact	

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
<u>Each</u> coil	All other connections and Frame
Each contact set	All other connections and Frame

4. TEST PROCEDURE

Relay A

- a) Check coil resistance is 0.2 Ω +/- 5%
- b) ****Operate current between 400mA - 500mA DC.****

Relay B

- a) Check coil resistance is 100 Ω +/- 5%.
- b) Operate current = 21mA +/- 10%.
- c) ****Operate voltage < 14VDC.****

Relay A	Pickup Current	<input type="text"/>	400-500mA
Relay B	Pickup Current	<input type="text"/>	19-23mA
	Pickup Voltage	<input type="text"/>	<14V

4. GENERAL & FUNCTIONAL

- a) Check that the relays are shockproof and that the flag 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: _____