



Order Number

Serial Number

## PRODUCT/TEST MANUAL

**3A32K21**

**CITY BUCHHOLZ TRIP RELAY**

<b>Issue Level</b>	<b>Date</b>	<b>Summary of Changes</b>
A	12/07/2001	Initial issue.
B	26/10/2001	TfA 62083 Issue B
C	26/05/2008	TfA 62083 Issue C

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ERL	MW	MW	

**1. ASSOCIATED DRAWINGS**

172-032-121                      Wiring Diagram  
This Product Test Manual is in reference to TfA 62803 Issue C 18/04/2008.

**2. HIGH VOLTAGE TESTING**

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

**TABLE 1**

<b>GROUP 1</b>	<b>GROUP 2</b>
Coil	All other connections and Frame
Each contact set	All other connections and Frame

**3. TEST PROCEDURE**

- a) Check coil resistance is 600Ω +/- 10% (3000 + 750 in parallel).
- b) Apply 430 VAC to terminals 17 & 19 as three 25 cycle pulses with a 250 cycle between pulses (disconnect the resistor for this test). Ensure that the relay does not operate (contacts make or flag drops)
- c) Check the relay pick up voltage is between 65-70VVDC.
- d) Check that the drop out voltage is greater than 10 VDC.
- e) Check that the operate time is less than 55ms @ 110VDC.
- f) Check that the dropout time is less than 100ms @ 110VDC.

**4. GENERAL & FUNCTIONAL**

- a) Check that the relay is engraved with "CBT Mk2" and label reads "CBT Mk2 RELAY".
- 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: \_\_\_\_\_