

Order Number

Serial Number

PRODUCT TEST MANUAL

3A32K56

LOCKOUT RELAY

Issue Level	Date	Summary of changes
A	16/11/00	Initial issue.
B	25/05/01	Stock code was 176661
C	26/10/01	Added 2Kv across open contact test
D	3/03/03	TfA new issue from C-D
E	27/10/03	Added contact compass test drawing
F	20/01/09	TfA Issue F
G	16/09/10	Added insulation resistance testing of all units

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ERL	DG	DG	

1. ASSOCIATED DRAWINGS

172-032-156 Wiring Diagram
 This Product Test Manual is in reference to
 TfA 176642 Issue F 13/12/07

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 50MΩ**.

Table 1

Group 1	Group 2
Coil	All other connections
Each contact set	All other connections
Across each contact (open condition)	

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
Coil	All other connections and Frame
Each contact set	All other connections and Frame

4. TEST PROCEDURE

LO Element

- a) Check coil resistance is 200Ω +/- 5%.
- b) Operate voltage is less than 20V DC
- c) Drop out voltage is not critical

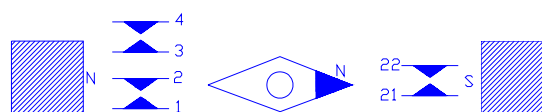
LO Element

Pickup Voltage < 20 V

Check

5. GENERAL & FUNCTIONAL

- a) Check the polarity of the magnetic blowouts using a compass by placing the compass next to each of the magnets in turn and observe that when viewed from the front both magnets are aligned South to North/Left to Right respectively.



FRONT VIEW

- b) Check that the relay base label is engraved with stockcode number SC 176642 and "LO".
- c) Check that the front label is engraved with "LOCK - OUT RELAY" and "SC 176642"

- d) Check that the relay is shockproof and that the flag reset mechanism operates correctly.
- e) Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026.

PASS

TESTED BY: _____ DATE: _____