



Serial Number

Number in Batch

3A33K3

30V FAIL SAFE AUXILIARY RELAY

Issue Level	Date	Summary of changes
A	31/08/2012	Initial release

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1. ASSOCIATED DRAWINGS

172-033-103 Relay Connection Diagram

2. TEST EQUIPMENT REQUIRED

DC Auxiliary Supply
 Digital Voltmeter
 Oscilloscope (for measuring drop out times)
 High Voltage Test Equipment

3. HIGH VOLTAGE TESTING

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

TABLE 1

GROUP 1
 Coil
 All terminals

GROUP 2
 All contacts
 Frame

PASS

4. TEST PROCEDURE

Check the job card for any special requirements of the relay to be tested.

- a) Connect all the following specified MAKE contacts in series, and connect to contact sensor/timer: 1-3, 2-4, 5-7, 6-8.
- b) Connect all the following specified BREAK contacts in parallel: 9-11, and 10-12 to the sensor/timer.
- c) Manually operate the relay by pushing the armature towards the pole face of the relay. Ensure that the contacts have sufficient over travel by ensuring that all of the contacts have made before the armature is fully home.

Check

- d) Make sure that the contact wiring of the relay corresponds to the connection diagram on the side of the relay.

Check

- e) Check operation of relay at specified 30VDC operating voltage, when the relay is energised (via 27+, 28-). Also check that the armature is fully home.

Check

- f) Check that the flag operates when the relay is energised.

Check

- g) Check operation of front panel hand reset button. All contact must reset correctly.

Check

- h) Check that drop out times is less than 15ms

Check

5. GENERAL & FUNCTIONAL



- a) Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026.

Check