



Serial Number

Number in Batch

6RX31-X / 1TM12
HR Flag with 3 elements

TRIP CIRCUIT SUPERVISION RELAY

Issue Level	Date	Summary of changes
A	03/11/2010	Initial release

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1. ASSOCIATED DRAWINGS

Refer to Job Card and associated documentation.
 Relay Connection Diagram

2. 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	GROUP 2
Each coil	All other connections and Frame
Each contact set	All other connections and Frame

PASS

3. TEST PROCEDURE

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

- a) Connect all specified MAKE contacts in series, and connect to contact sensor/ timer.
- b) Check operation of relay at specified minimum and maximum DC operating voltage, when the relay is de-energised, according to the following table. Also check operation of all BREAK contacts.

Model	Nominal Voltage	Minimum voltage (65%)	Maximum voltage (120%)
6RX31-B	32V	20	39
6RX31-D	110V	71	132
6RX31-E	125V	81	150
6RX31-F	250V	162	300

Check

- c) Check that the HR flag operates at minimum voltage, when the relay is de-energised from either RL2 or RL3 (check both).

Check

- d) Connect the counter / timer to measure the drop delay of the relay: in the first case de-energise slugged element RL2 is from nominal voltage (via pins 13 & 14). In the second case de-energise slugged element RL3 is from nominal voltage (via pins 21 & 22). In both cases the drop out delay should be approximately 300ms.

Check

- e) Check that the operating burden for powering each of (R1 and RL2- pins 13 & 14) and (R2 and RL3- pins 21 & 22) is as according to the following table:

Model	Nominal Voltage	Max. operating current (mA)
6RX31-B	32V	31
6RX31-D	110V	13.5
6RX31-E	125V	16
6RX31-F	250V	18

Check



5. GENERAL & FUNCTIONAL

a) Check that the label has been engraved correctly as per the wiring diagram.
Check

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

PASS

TESTED BY: _____ DATE: _____