



Serial Number

Number in Batch

**6RX12-X / 1TM11**  
**SR Contacts & HR Flag**

**TRIP SUPPLY SUPERVISION RELAY**

<b>Issue Level</b>	<b>Date</b>	<b>Summary of changes</b>
A	15/11/2010	Initial release

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MVL	DW	DW	



**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**

Coil  
 Each contact set  
 All terminals

**GROUP 2**

All other connections and Frame  
 All other connections and Frame  
 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) 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
- c) 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. Also check that the armature is fully home.

Check

Model	Nominal Voltage	Minimum voltage (65%)	Maximum voltage (120%)
6RX11-B	32V	20	39
6RX11-C	48V	31	58
6RX11-D	110V	71	132
6RX11-E	125V	81	150

Check

- d) Check that the HR flag operates at minimum voltage, when the relay is de-energised.
 

Check
- e) Connect the counter / timer to measure the drop out delay of the relay (when slugged relay element is de-energised from nominal voltage- via 27 & 28). This should be approximately 300ms.
 

Check



- f) Check that the operating burden when powering healthy state (RL1 & R1- pins 27 & 28) 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: \_\_\_\_\_