Order Number

Serial Number

# PRODUCTION TEST MANUAL

## 3A32K42

## AUXILIARY RELAY

| Issue Level | Date | Summary of Changes |
|---|---|---|
| A | 13/08/2012 | Initial issue. |
| | | |
| | | |



| Author | Checked | .PDF file created | Registered & Released |
|---|---|---|---|
| MVL | MLD | MLD | dietmarweinkoetz@rmspl.com.au Digitally signed by dietmarweinkoetz@rmspl.com.au DN: cn=dietmarweinkoetz@rmspl.com.au Reason: I am the author of this document Location: Date: 2012-08-15 13:27+10:00 |

## 1. TEST EQUIPMENT REQUIRED

Doble F2700 with AC voltage source up to 600VAC.
High Voltage Test Equipment- Impulse and RMS tester.

## 2. ASSOCIATED DRAWINGS

172-032-142 Wiring Diagram

## 3. 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: 3-4, 7-8, 11-12, 18-19, 13-14, and 15-16.

c) Apply three 5kV 1/50us pulses of each polarity between terminal Groups 1 and 2 in Table 1.

**Table 1**

| GROUP 1 | GROUP 2 |
|---|---|
| Coil | All contacts |
| Coil & Contacts | Frame |

## 4. TEST PROCEDURE

a) Apply 415 VAC to terminals 6 & 9. Ensure that the all relay contacts switch as per the following:

**Table 2**

| Terminal numbers | Expected switching |
|---|---|
| 3-4 | N/O → CLOSED |
| 7-8 | N/O → CLOSED |
| 11-12 | N/O → CLOSED |
| 18-19 | N/O → CLOSED |
| 13-14 | **N/C → OPEN** |
| 15-16 | **N/C → OPEN** |

b) Check the relay pick up voltage is less than 288VAC.

c) Check that the drop out voltage is greater than 160VAC.

## 5. GENERAL & FUNCTIONAL

a) Check that the relay is shockproof and that the flag reset mechanism operates correctly.

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

**PASS** ☐

TESTED BY: _____ DATE: _____