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Order Number

Serial Number

PRODUCT/TEST MANUAL

3A52K14

SR/RR INTERTRIP RELAY

lssue Level	Date	Summary of changes	
А	16/12/2005	Initial issue.	
В	02/02/2006	Removed base engraving requirement.	

Due to RMS continuous product improvement policy this information is subject to change without notice.

Author	Checked & Registered	.pdf file created	Released
ERL	DG	DG	

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1. **ASSOCIATED DRAWINGS**

172-052-114 Wiring Diagram This Product Test Manual is in reference to TfA 152512 Issue C 1/10/2003

GROUP 1

2. **HIGH VOLTAGE TESTING**

- Apply 2KV RMS 50Hz for 1 minute between terminal Groups 1 and 2 for items (a) to (j) in a) Table 1
- Apply 1kV RMS 50Hz for 1 minute between terminals for items (k) to (r) in Table 1. b)

TABLE 1

GROUP 2

a)	All Terminals	Frame
b)	9, 10 joined	Other Terminals +E
c)	11 & 12 joined	Other Terminals +E
d)	7,6 & 8 joined	Other Terminals +E
e)	4 & 5 joined	Other Terminals +E
f)	3 & 2 joined	Other Terminals +E
g)	13 & 14 joined	Other Terminals +E
h)	15 & 16 joined	Other Terminals +E
i)	17 & 18 joined	Other Terminals +E
j)	19 & 20 joined	Other Terminals +E
k)	Between 4 & 5	

- I) Between 7 & 8
- Between 3 & 2 m)
- Between 13 & 14 n)
- Between 15 & 16 o)
- p) Between 17 & 18
- With the SR element armature operated. Between 6 & 7 q)
- r) With the RR element armature operated. Between 19 & 20

3. **TEST PROCEDURE**

b)

3.1 **SEND ELEMENT (SR)**

PU volts less than 65 V DC with term 9 pos. and term 10 neg. a) Drop out not important

Pickup Volts	Volts
>290 ms delay on drop out at 110 V DC] mSec

- Reverse the polarity on the terminals making term 9 negative and apply 100 volts C) DC. Ensure the relay does not operate. This test ensures the integrity of the diode.
- Measure the resistance between terminals 9 & 10. This should be 770 $\Omega^+/$ 10 % d)

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3.1 RECEIVE ELEMENT (RR)

	a)	Pick up < 50 Volts DC		
		Pickup Volts		Volts
	b)	Operate time less than 50 ms at 110 V DC		
				mSec
	c)	Measure the resistance between 11 & 12. This s	should be 3000 Ω ⁺ /-	10 %
	d)	AC withstand at 240 V AC.		
				ок
NOTE:	The rec increas	eive element should not pick up under 240 volts vels vels vels vels vels vels vels vel	when the voltage to	the coil is

4. GENERAL & FUNCTIONAL

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

PASS	
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TESTED BY: _____ DATE: _____