INSTRUCTIONS



GEK-45347 A Insert Booklet GEK-34123

RECLOSING RELAY TYPE NLR21U

INTRODUCTION

These instructions are a supplement to Instruction Book GEK-34123 which is included in this book. The combination of the two provide instructions for the NLR21U relay. All information pertinent to the NLR21U relay which is not covered by this supplement is as indicated in GEK-34123.

DESCRIPTION

The NLR21U is similar to the NLR21A except it is a dual rated DC relay. The NLR21U relay contains rated voltage selecting links to provide means of adjusting the relay to operate on the control voltage available.

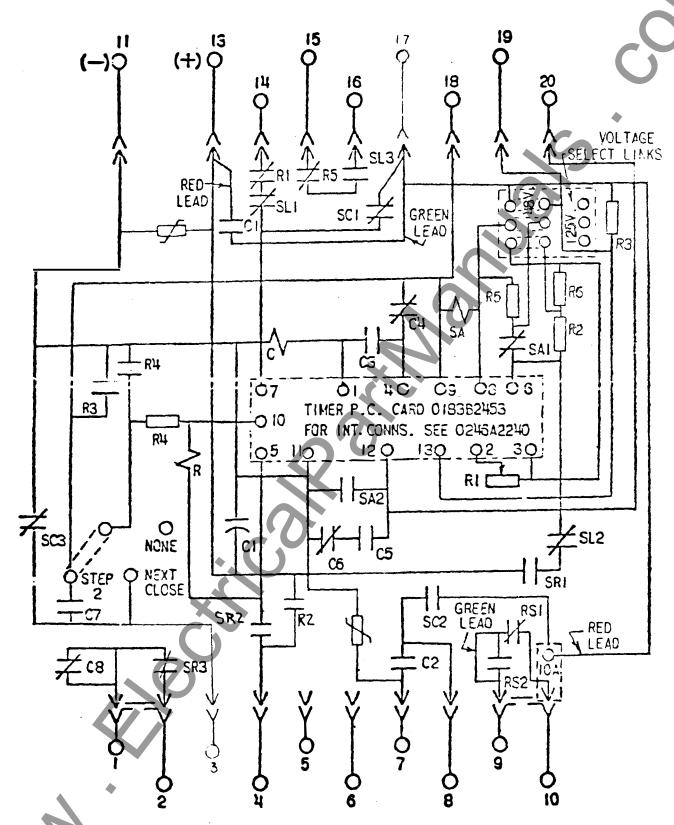
Figure 1 shows the internal connections for the NLR21U relay.

Figure 2 shows the external connections for the NLR21U relay.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

To the extent required the products described herein meet applicable ANSI, IEEE and NEMA standards; but no such assurance is given with respect to local codes and ordinances because they vary greatly.





O = POST NO. ON PRINTED CIRCUIT CARD

FIG. 1 (0257A5059-0 Sh-1) Type NLR21U Internal Connections Diagram

STEPPING SWITCH CONTACTS

OTET THE OWN TO THE OWN TABLE			
SWITCH CONTACTS			
RESET	STEPS 1-34 INC.	LOCKOUT	
CLOSED	CLOSED	OPEN	
OPEN	OPEN	CLOSED	
OPEN	CLOSED	CLOSED	
CLOSED	OPEN	OPEN	
CLOSED BY ADJUSTABLE CAAS IN			
ANY 3 NON-ADJACENT STEPS			
SC (学) CLOSED WHEN SC CONTACTS (中) ARE OPEN			
SA (十) COIL 15 ENERGIZED			
	•	SW.	
ωIL I	IS ENERGIZED		
	RESET CLOSED OPEN OPEN CLOSED ANY 3 N CLOSED ARE OPE CLOSED COIL 15	RESET STEPS 1-34 INC. CLOSED CLOSED OPEN OPEN OPEN CLOSED CLOSED OPEN CLOSED BY ADJUSTABLE OF ANY 3 NON-ADJACENT STEPS CLOSED WHEN SC CONTACT	

MODEL		FO	RM	
12NLR21U(-)A				
VOLTS DC	48/125		l	
	RESISTAN	ICE IN O	HMS	
C COTT	500			
R COIL	600			
SA COIL	70			
7				
P.1	IMFG.			
P2	2,000			
R3	620			
RH	600			
R5	100			
R6	6,000			
CAPACI TANCE VALUE				
CI	luf			

GENERAL

ELECTRIC

FIG

 ι

(010888924-1)

Type

NLR21U

External

Connections

Diagram

METER AND CONTROL BUSINESS DEPT.,

MALVERN,

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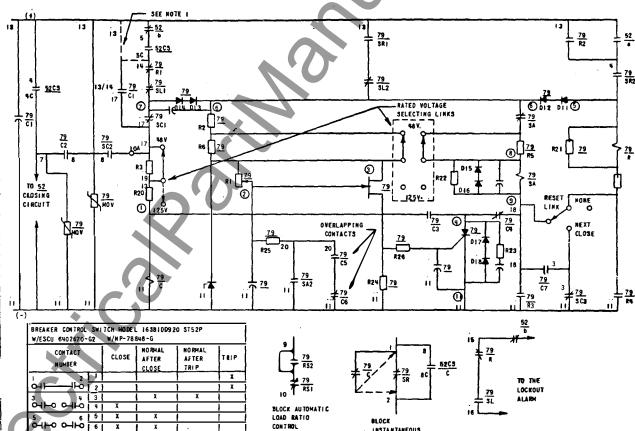
MOTE 1: USE STUD 13 CONNECTION NORMALLY FOR NON-PUMP FREE CONTROL SCHEMES SHIFT INTERNAL RED LEAD FROM
13 TO 19 MEN USING STUD 14 DO NOT USE STEP 2 RESET POSITION.

HOTE 2: MERZIU SHOWN SET FOR INSTANTANEOUS RECLOSURE

CAM OPERATEO CONTACTS		RESET STEP 0	STEPS 1-34	LOCKOUT STEP 35
31	⊣⊢	L	L	X
SR		X		
SR	—	l	1 x	X
SL		X	X	
sc	→+ -	X, AND 3 HON-ADJACENT STEPS		
sc	⊣⊢			
SR	-J+-	- IX IN ANY 4 ADJACENT STEPS		
SR	→	OPEN WHEN	R3 - 11 - 13	X

LEGEND				
DEVICE NO.	TYPE	INCL.	DESCRIPTION	
52CS	SB		CONTROL SWITCH	
52	1		AC CIRCUIT BREAKER	
79	NLR	l	AC RECLOSING RELAY	
	}	C	CLOSING UNIT	
	į	R	RESETTING UNIT	
	Į .	RS	CAM OPER. AUX-FUNCTION SW	
		SA	ARMATURE OF STEPPING SWITCH	
		l sc	CLOSING CONT'S OF STEPPING SWITCH	
	l 	SL	LOCKOUT CONT'S OF STEPPING SWITCH	
		5R	RESETTING CONT'S OF STEPPING SWITCH	

DESCRIPTION OF DEVICE	INTERNAL	OUTLINE
HLR21M	1024623251	K-6209272
NLAZIU	1225745059	K-G209872



INSTANTANEOUS TRIP CIRCUIT