



RECLOSING RELAY

TYPE NLR21P

INTRODUCTION

This supplement in addition to GEK-34123 constitutes the instructions for the NLR21P relay.

DESCRIPTION

The NLR21P relay is similar to the NLR21A except it is AC operated and the first step has a separate adjustable time delay of 4.0 to 24.0 milliseconds for step times of 5.0 seconds.

Figure 1 of this supplement shows the internal connections for the NLR21P relay.

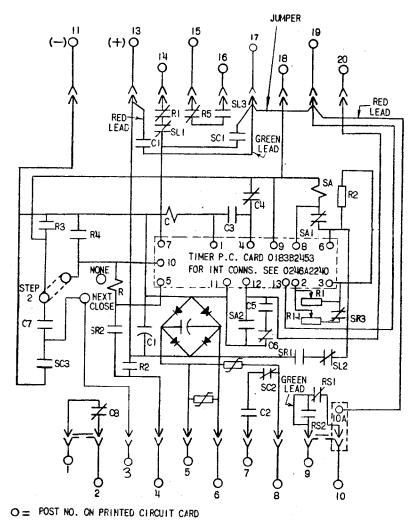
APPLICATION

The Type NLR21P relay is applied whenever it is desirable to obtain a separate adjustable time delay for the first reclosure. To accomplish this, the first SC lobe must be placed in the STEP ONE position. The other two SC lobes can be placed in any two non-adjacent steps to obtain the desired time delay reclosures. More specific information relative to application is given in the section entitled APPLICATION in the attached book GEK-34123. The external connections diagram for the NLR21P is shown in figure 2 of this supplement.

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.





* Fig. 1 (0246A3336 Sh.1 [3]. Type NLR21P Internal Connections Diagram

STEPPING SWITCH CONTACTS

CONTACTS		SWITCH CONTACTS			
		RESET	STEPS 1-34 INC.	LOCKOUT	
SL	(孝)	CLOSED	CLOSED	OPEN	
SL	(丰)	OPEN	OPEN	CLOSED	
SR	(中)	OPEN	CLOSED	CLOSED	
SR	(才)	CLOSED	OPEN	ÓPEN	
sc	(十)	CLOSED BY ADJUSTABLE CAMS IN			
L		ANY 3 NON-ADJACENT STEPS			
sc	(孝)	CLOSED	WHEN SC CONTACT	S (土)	
30		ARE OPEN			
SA	4 (十)	CLOSED WHEN STEPPING SW.			
JA		COIL IS	ENERGIZED	}	
SA	ريلار		WHEN STEPPING S	W.	
SA	(孝)	ωIL I	S ENERGIZED	ļ	
L		00,0	O LITEROTZED		

I	FORM					
ı						
120						
RESISTANCE IN OHMS						
5000						
6500						
1100						
IMEG.						
10,000						
50K						
			1			
CAPACITANCE VALUE						
7u t						
	12C RESISTA 50C0 65C0 19CC IMFC. 1C_0C0	12C RESISTANCE IN C 50C0 65C0 18CC IMFC. IC_CCO 50K CAPACITANCE VA	12C RESISTANCE IN OHMS 50C0 65C0 14CC IMFG. 1C,CCO 50K CAPACITANCE VALUE			

Fig. 1 (0246A3336 Sh.2 [1] Type NLR21P Internal Connections Diagram

Revised since last issue

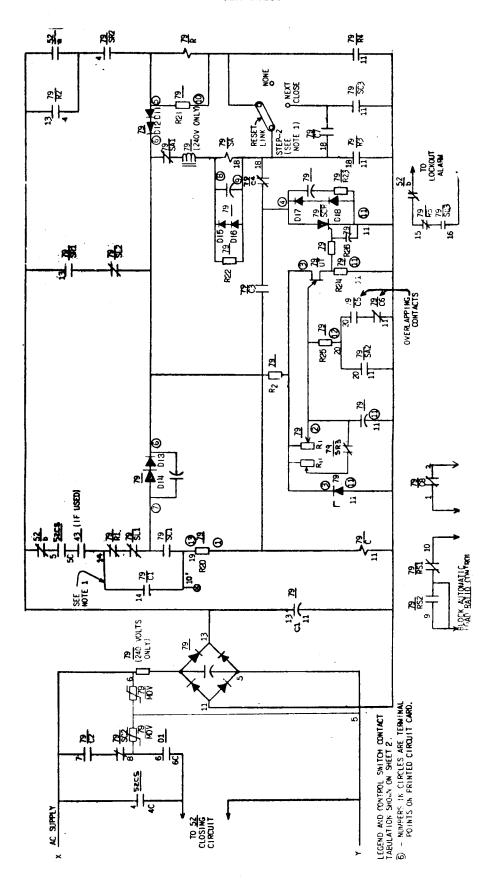


FIG. 2 (0165B2639-0 SH. 1) Type NLR21P External Connections Diagram

NUMEERS ON CONTACTS (79/R1,79/SCI,ETC) ARE ARBITRARILY ASSIGNED FOR IDENTIFICATION PURPOSES.

DESCR. OF DEVICE	INT. CONNS.	OUTLINE
NLR21P(-)A	0246A3336	K-6209272

LEGEND DEVICE INCL TYPE DESCRIPTION ELBM. NO. CONTROL SWITCH AC CIRCUIT BREAKER AC RECLOSING RELAY SB **52CS** NLR 79 C CLOSING UNIT RESETTING UNIT R CAM OPER. AUX-FUNCTION SW. RS AFMATURE OF STEPPING SW. CLOSING CONTS. OF STEPPING SW. SA SC LOCKOUT CONTS. OF STEPPING SW. SL RESETTING CONTS. OF STEPPING SI

CAM OPERATED CONTACTS		RESET STEP #0	STEPS 1-34	LOCKOUT STEP 35	
SL	-11-			Х	
SR	-11-	X			
SR			X	Х	
SL	-11-	X	X		
SC	-14-	X, ANY 3 NON-ADJACENT STEPS			
SC	⊣⊢	OPEN WHEN SC - H- IS X			
RS		X IN ANY 4 ADJACENT STEPS			
RS		OPEN WHEN RS - 44 TS X			

BREAKER CONTROL SWITCH MOCEL 16SB1B12					
CONTACT NUMBER		CLCSE	NORMAL AFTER CLOSE	NORMAL AFTER TRIP	TRIP
1 2					X
он	2				X
3 4	3		X	X	
બમ્બ બમ્બ	4	X			
5 6	5	X	Х		1
5 6 9H9 0H6	6	X	X		

FIG. 2 (0165B2639-0 SH. 2) Type NLR21P External Connections Diagram