



INSTRUCTION DATA

Dowty RFL Industries Inc. • Boonton, New Jersey

Model 66A NLRLY 8-PT NON-LATCHING RELAY CARD

DESCRIPTION

Model 66A NLRLY is one of the RFL Series 66 TDMS plug-in cards. It provides 8 points of non-latching relay output capability. Jumpers have been provided to allow the user a choice of two Form-A contacts or a single Form-C contact per relay. The wipers in all of the relays have been interconnected as shown in Figure 3. A polarity jumper has also been provided so that either a logic 0 or a logic 1 at the inputs can be used to energize the relays. For each relay, there is a VERIFY terminal which is normally used in Select-Check type applications to psuedo-verify that a selected relay is energized.

SPECIFICATIONS

Contact Rating: 2A @ 28 Vdc
1A @ 48 Vdc Resistive switching
0.1A @ 150 Vdc

Maximum Current: 3A at Terminal 14 or R.

Breakdown Voltage: 150 VRMS contact-to-contact.
500 VRMS contact-to-coil.

Temperature Range: -30°C to +70°C.

Power: 11 to 13 Vdc @ 1 mA plus 79 mA/energized relay.

Size: Two standard one-half-inch module spaces in an RFL Model 68Chassis.

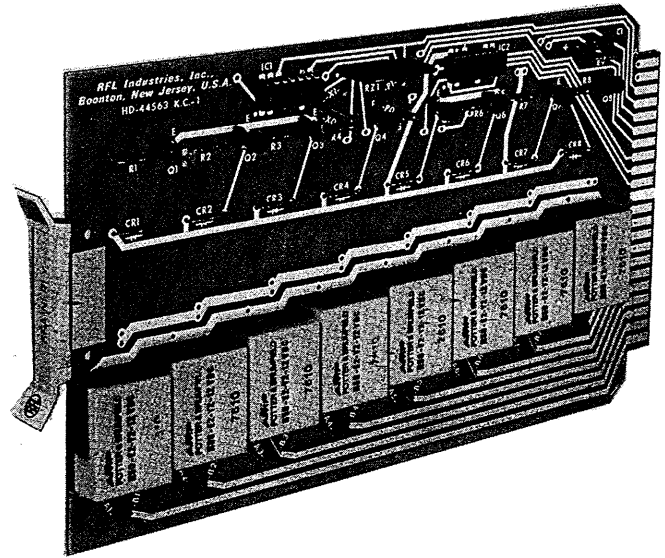


Figure 1. Model 66A NLRLY 8-point non-latching relay-card.

CONNECTION

This module contains CMOS logic circuits and special handling precautions should be observed. Refer to "CMOS Handling Precautions", RFL Document 12175.

All unused input terminals must be returned to +V or COM.

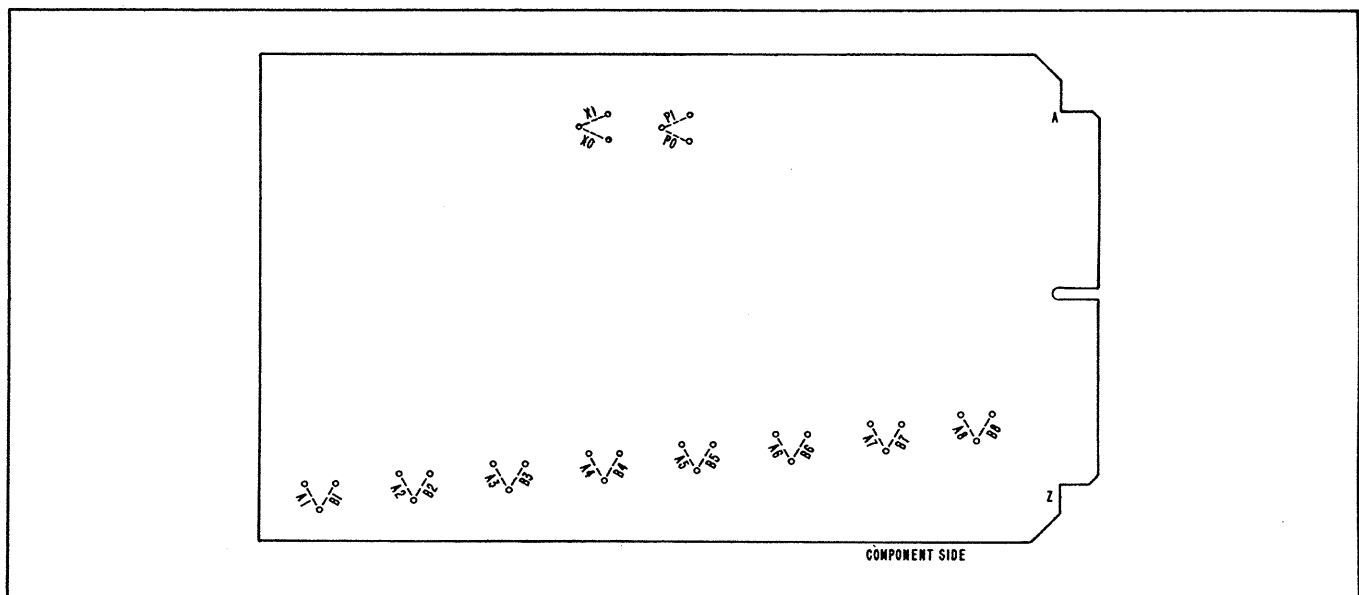


Figure 2. Location of jumpers, Model 66A NLRLY.

TABLE OF REPLACEABLE PARTS

CIRCUIT SYMBOL	DESCRIPTION	PART NUMBER
Model 66A NLRLY, Assembly HB-44560		
C1	Capacitor, tantalum, 4.7 μ F, 20%, 20 V, Kemet T324B475M020AS	H-1007-711
CR1 thru 8	Diode, silicon Type 1N914B/1N4448	HA-26482
IC1, 2	Quad, EXCL-OR gate, RCA CD4030AE, or eq.	H-0615-22
K1 thru 8	Relay, 12 Vdc, two Form-C contacts, AZ1531-09-1	HA-49423
Q1 thru 8	Transistor, NPN, Type 2N4401	HA-42574
R1 thru 9	Resistor, fixed, composition 5%, 1/4 W, value on-schematic, Allen Bradley CB, or eq.	H-1009-(xxx)
RZ1	Resistor network, metal-film, 47K, 2%, 2.7 W/Pack, Helipot 785-1-R47K	HA-49511
---	Bar, shorting	HA-42904
---	Schematic (Figure 3)	HE-44564

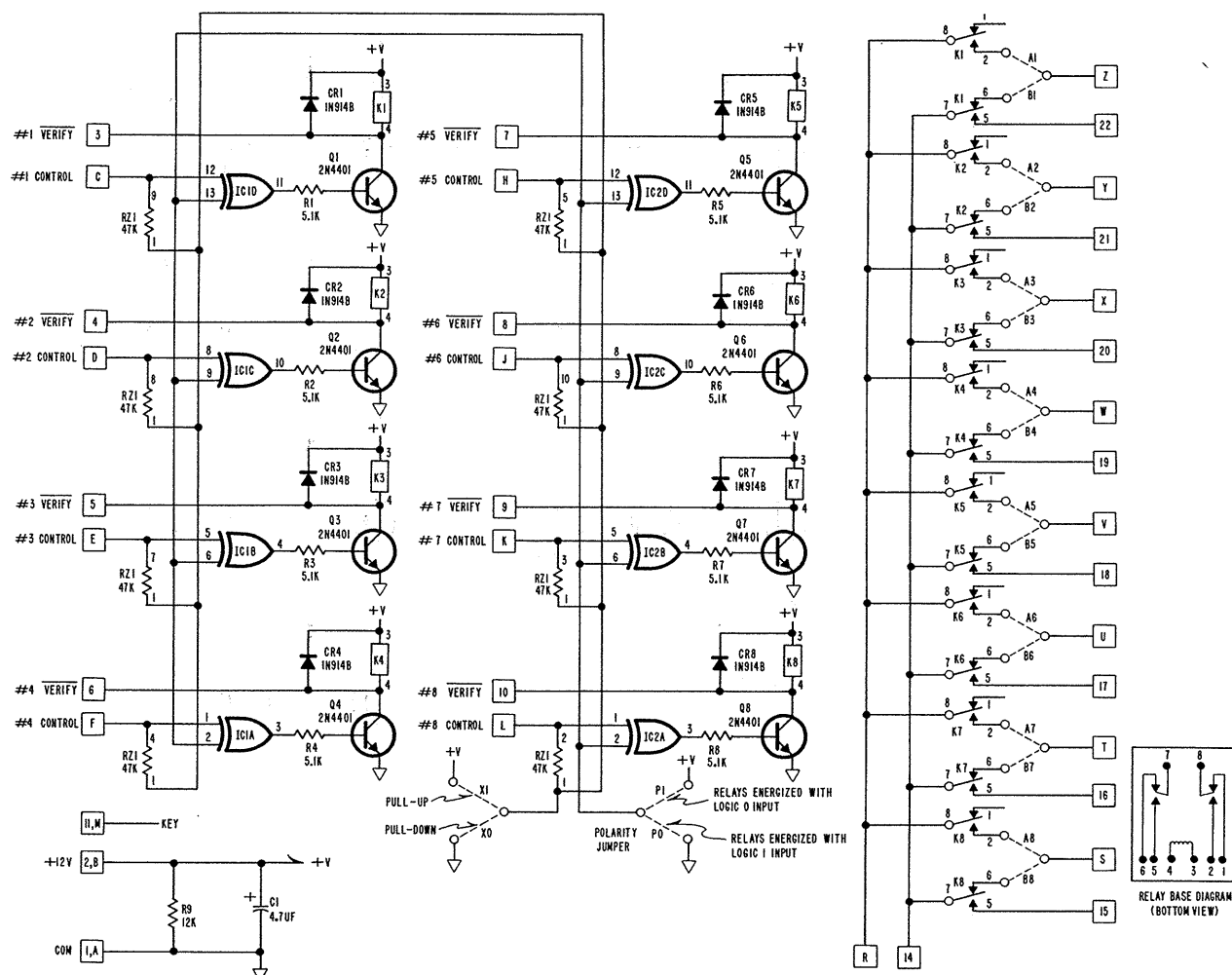


Figure 3. Schematic of circuit, Model 66 NLRLY.