



GE Drive Systems

INSTRUCTIONS

Relay Terminal Board Card

531X191RTBA_G_

IMPORTANT
INFORMATION

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 General Electric Company.

RELAY TERMINAL BOARD PRINTED CIRCUIT CARD

This instruction provides basic information for use of the Relay Terminal Board (RTB) printed circuit card.

DESCRIPTION

The Relay Terminal Board utilizes seven (7) relays for control of external circuitry and provides terminal board access to individual coils and contacts (see Figure 1 for typical relay circuit). Table 2 provides a tabulation of RTB Points and relay contacts. LED's provide visual indication of relays which are energized (see Figure 2).

NOTE: *Some variations of the Relay Terminal Board cards provide two form "C" contact outputs. High level (other relay coils, etc) and low level (references, feedbacks, etc.) signals should not be mixed within a given relay. Contamination of the low level contact pair can be caused by switching (arcing) on the high level pair.*

RATING

Coil and contact rating by card catalog number are as shown in Table 1.

CAUTION: An insulation barrier should be placed directly behind the Relay Terminal Board card when mounting to ensure electrical isolation.

TABLE 1: COIL AND CONTACT RATINGS

<u>CARD CAT. #</u>	<u>COIL</u>	<u>CONTACTS</u>
531X191RTBA_G1*	115 VAC (+/-10%) 50/60 Hz Holding: 9mA	0.4 Amps DC 105 Volts DC
531X191RTBA_G3**	115 VAC (+/-10%) 50/60 Hz Inrush: 25mA Holding: 14 mA	2.4 Amps 125 VAC/28 VDC 1 mA/0.1 Volt
531X191RTBA_G4**	24 VDC (+/-10%) 37 mA	2.4 Amps 125 VAC/28 VDC 1 mA /0.1 Volt
<p><i>*G1 cards have one set of form "C" contacts only per relay. Terminal board points for NO, CM, and NC are redundant for each relay. (I.E. K201NO is same point as K202NO, etc.)</i></p> <p><i>**G3 and G4 cards have two form "C" contact sets per relay.</i></p>		

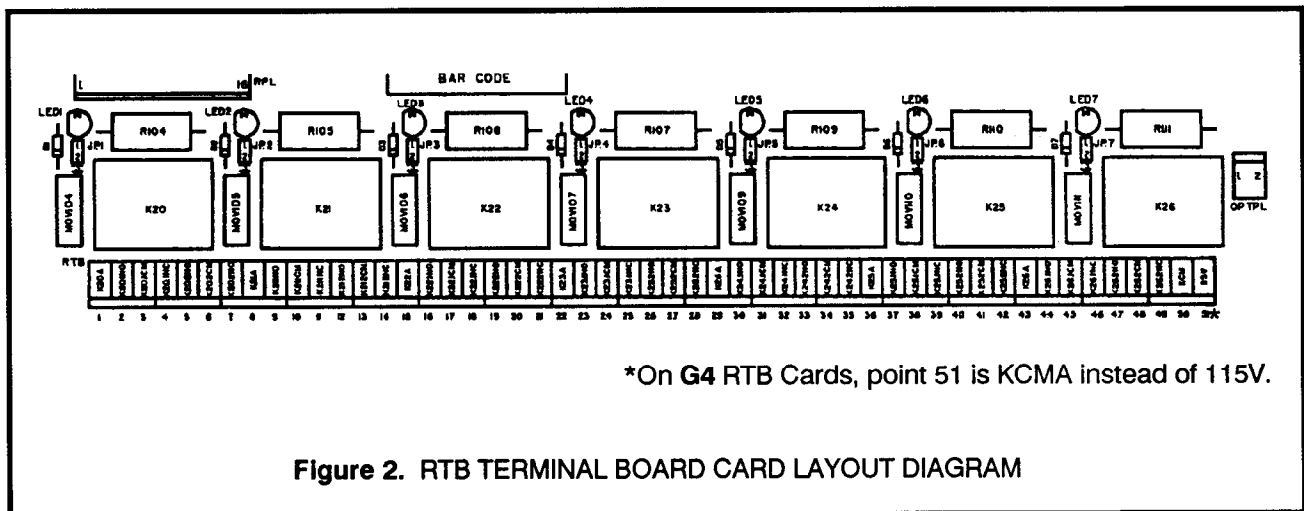
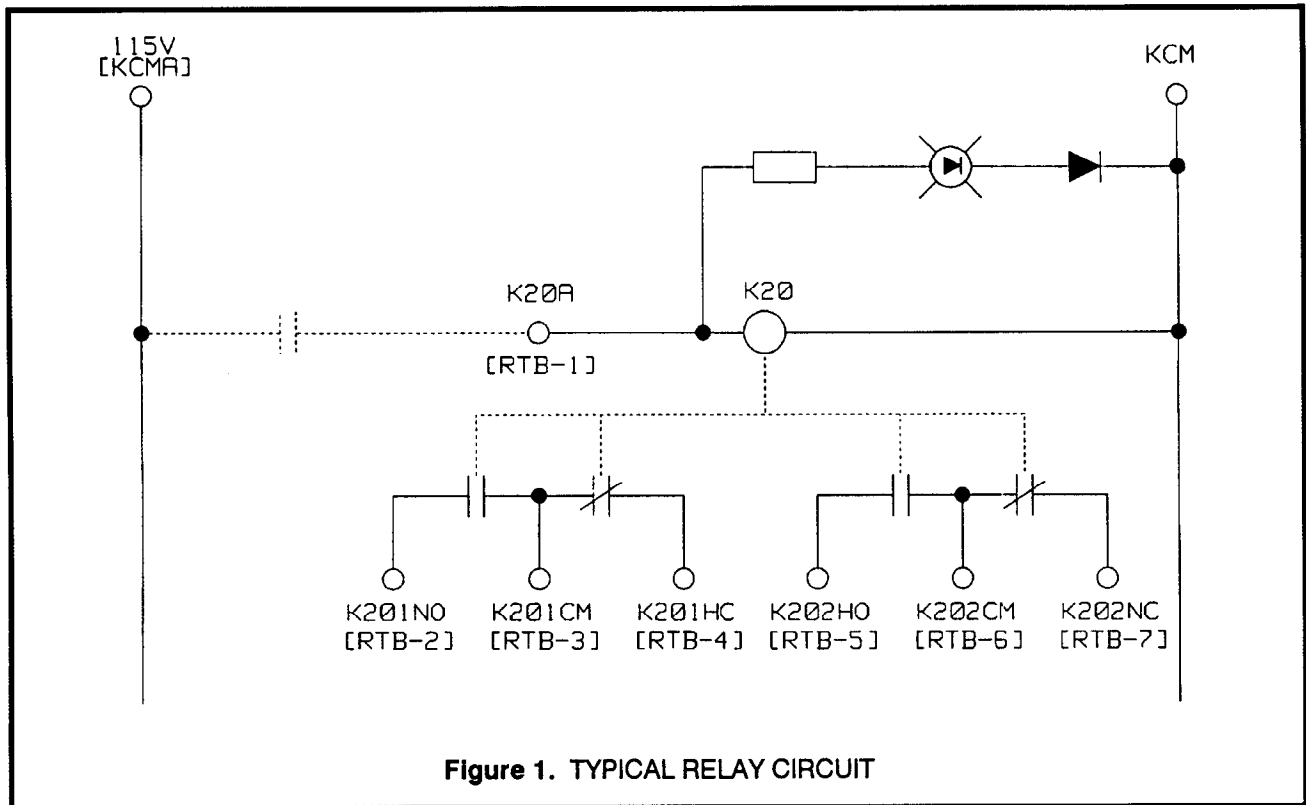


TABLE 2: COIL AND CONTACT RATINGS

<u>RTB POINT</u>	<u>NOMENCLATURE</u>	<u>RELAY DESCRIPTION</u>
1	K20A	K20 Coil
2	K201NO	K20 #1 N.O. Contact
3	K201CM	K20 #1 COMMON
4	K201NC	K20 #1 N.C. Contact
5	K202NO	K20 #2 N.O. Contact
6	K202CM	K20 #2 COMMON
7	K202NC	K20 #2 N.C. Contact
8	K21A	K21 Coil
9	K211NO	K21 #1 N.O. Contact
10	K211CM	K21 #1 COMMON
11	K211NC	K21 #1 N.C. Contact
12	K212NO	K21 #2 N.O. Contact
13	K212CM	K21 #2 COMMON
14	K212NC	K21 #2 N.C. Contact
15	K22A	K22 Coil
16	K221NO	K22 #1 N.O. Contact
17	K221CM	K22 #1 COMMON
18	K221NC	K22 #1 N.C. Contact
19	K222NO	K22 #2 N.O. Contact
20	K222CM	K22 #2 COMMON
21	K222NC	K22 #2 N.C. Contact
22	K23A	K23 Coil
23	K231NO	K23 #1 N.O. Contact
24	K231CM	K23 #1 COMMON
25	K231NC	K23 #1 N.C. Contact
26	K232NO	K23 #2 N.O. Contact
27	K232CM	K23 #2 COMMON
28	K232NC	K23 #2 N.C. Contact
29	K24A	K24 Coil
30	K241NO	K24 #1 N.O. Contact
31	K241CM	K24 #1 COMMON
32	K241NC	K24 #1 N.C. Contact
33	K242NO	K24 #2 N.O. Contact
34	K242CM	K24 #2 COMMON
35	K242NC	K24 #2 N.C. Contact

TABLE 2: COIL AND CONTACT RATINGS (continued)

<u>RTB POINT</u>	<u>NOMENCLATURE</u>	<u>RELAY DESCRIPTION</u>
36	K25A	K25 Coil
37	K251NO	K25 #1 N.O. Contact
38	K251CM	K25 #1 COMMON
39	K251NC	K25 #1 N.C. Contact
40	K252NO	K25 #2 N.O. Contact
41	K252CM	K25 #2 COMMON
42	K252NC	K25 #2 N.C. Contact
43	K26A	K26 Coil
44	K261NO	K26 #1 N.O. Contact
45	K261CM	K26 #1 COMMON
46	K261NC	K26 #1 N.C. Contact
47	K262NO	K26 #2 N.O. Contact
48	K262CM	K26 #2 COMMON
49	K262NC	K26 #2 N.C. Contact
50	KCM*	Common for <u>all</u> coils and control power common
51 (G1 and G3 cards)	115V	Control Power
51 (G4 cards*)	KCMA*	

**531X191RTBA_G4 Cards Require 24 Volt (+/- 10%) Power Supply for coil operation.
 KCM = Positive.
 KCMA = Negative.*



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