AUXILIARY RELAY/CHECKBACK

19D427620G3
DESCRIPTION

The Auxiliary Relay 19D427620G3 is used in conjunction with the CS26/27B Check Back equipment. It provides three mercury-wetted relays with separate inputs and outputs. Three LED indicators show which relay is energized.

OPERATION

Refer to schematic diagram 19C335562. An input signal applied to the Input of relay #1 or to Input #1 of relay #2 will switch the associated input amplifier ON. This switches on the relay driver Q1 or Q2, energizing K1 or K2. An input to Input #2 of relay #2 will override an Input #1 of relay #2 and lock the relay #2 input amplifier in the OFF position.

Relay K3 is energized directly by application of 125 VDC (Jumper "A" in 1-2 position) or 48 VDC (Jumper "A" in 2-3 position) to relay #3 Input #1 (+) and Input #2 (-).

Nominal Operating Characteristics

1. Input level
   a. Relay #1 input, Relay #2 Input #1 +10 VDC = ON
   b. Relay #2 input #2 +10 VDC = OFF
   c. Relay #3
      125 VDC Jumper A 1-2
      48 VDC Jumper A 2-3

2. Output contacts: 100 VA

3. Relay Operate Time: 2 milliseconds

PARTS LIST

<table>
<thead>
<tr>
<th>Symbol</th>
<th>GE Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>C1 &amp; C2</td>
<td>5496267P12</td>
<td>Tantalum; 150 uf +20%, 15 VDCW</td>
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<tr>
<td>C5 through C10</td>
<td>5490825P4</td>
<td>Ceramic; 6000 pF ±10%, 2000 VDCW.</td>
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<tr>
<td>D1 through D3</td>
<td>19A134354P1</td>
<td>Optoelectronic; red, diffused; sim Hew. Packard 5082-4655.</td>
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<tr>
<td>D5, D6, D9</td>
<td>19A115250P1</td>
<td>Silicon, fast recovery; sim 1N645 or 1N914.</td>
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<tr>
<td>D7</td>
<td>4037822P1</td>
<td>Silicon Rectifier; sim 1N5060</td>
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</table>

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.
K1 through K3 19B209439P1 Reed, mercury-wetted; 48 VDC, 1.75 W; coil, 6100 ohms +10%; pull-in, 20.1 VDC max. dropout, 3.15 VDC min; 1 form C contact; sim C.P.Clare, HGSR51211V01.

Q1, Q2 19A115300P2 Silicon, NPN; sim 2N3053.

R1, R2 19A701250P1 Metal film; 10 ohms ±1%, 1/4 W
R3, R5 3R77P203J Composition; 20 K ohms ±5%, 1/2 W
R4, R6 19A700113P87 Composition; 10 K ohms ±5%, 1/2 W
R14 19A700112P87 Composition; 10 K ohms ±5%, 1 W
R15 3R77P182J Composition; 1800 K ohms ±5%, 1/2 W
R17, R19, R20, R22 19A700113P111 Composition: 100 K ohms ±5%, 1/2 W
R18, R21 3R77P204J Composition; 200 K ohms ±5%, 1/2 W

TP1 through TP6 19B211379P1 Spring; GE Specialty Control Dept., Waynesboro, VA #44B412208

AR1 19A134511P1 Quad Operational Amplifier, linear; sim NSCLM224J, Motorola MLM224L
NOTES:

ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K.
K-100, K-200 OR M-100 GENERALIZED. CAPACITOR VALUES IN MICROFARADS UNLESS FOLLOWED BY UF. MICROFARADS, INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH. MILLIHENRYS OR H. HENRYS.