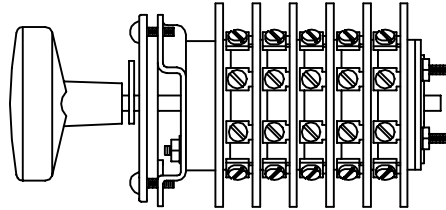
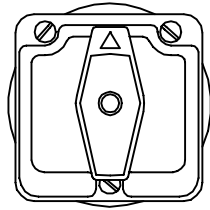
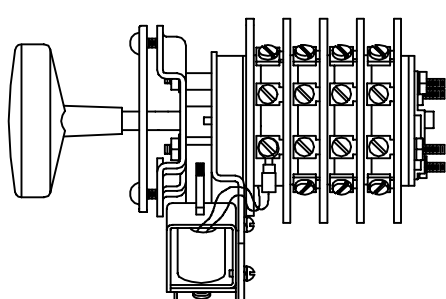
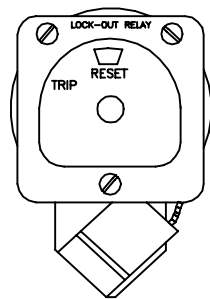


INSTRUMENT & CONTROL SWITCHES



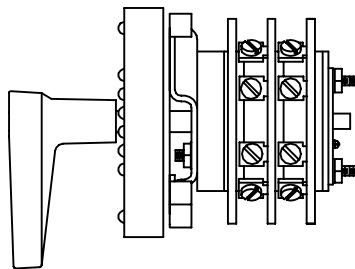
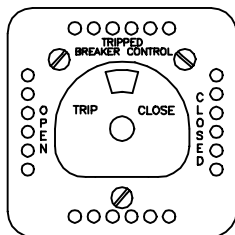
PAGES
2 - 11

SERIES 95 INSTRUMENT & CONTROL SWITCHES



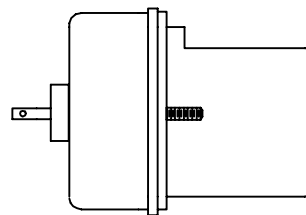
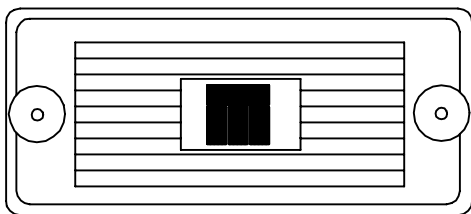
PAGES
12 - 20

SERIES 95 LOCK-OUT RELAY SWITCHES



PAGES
21 - 22

SERIES 95 LIGHTED ESCUTCHEON PLATES



PAGES
23 - 25

MULTI-CIRCUIT TEST SWITCH TYPE FT



THE SERIES 95 INSTRUMENT AND CONTROL SWITCH IS A HEAVY-DUTY ROTARY SWITCH THAT SATISFIES THE MOST DEMANDING REQUIREMENTS OF THE INDUSTRIAL CONTROL AND POWER APPLICATIONS, THESE SWITCHES ARE 600V AC RATED AND ARE RECOGNIZED BY UNDERWRITERS LABORATORIES IN THE UNITED STATES AND CANADA.

SOME OF THE TYPICAL STANDARD APPLICATIONS FOR THE SERIES 95 SWITCHES ARE:

- CIRCUIT-BREAKER CONTROL
- MOTOR CONTROL
- VOLTMETER SELECTOR AND TRANSFER
- AMMETER SELECTOR AND TRANSFER
- VOLT-AMMETER SELECTOR AND TRANSFER
- WATTMETER SELECTOR AND TRANSFER
- SYNCHROSCOPE CONTROL
- CONTROL SELECTOR SWITCH APPLICATIONS

THE SERIES 95 SWITCHES HAVE THE FOLLOWING STANDARD FEATURES:

- STANDARD 3-HOLE MOUNTING
- #8-32 SCREW TERMINALS
- NEMA CLASS A INSULATING MATERIALS (105°C)
- SILVER CONTACT SURFACES FOR LONG RELIABLE LIFE
- DOUBLE-SIDED, DOUBLE-WIPING KNIFE-TYPE ROTARY CONTACTS

SPECIAL FEATURES FOR CONTROL SWITCHES INCLUDES:

- MECHANICAL RED/GREEN TARGET
- SLIP CONTACTS FOR ALARM AND INDICATOR CIRCUITS
- PULL-TO-LOCK MECHANISM FOR A SAFETY LOCK-OUT
- SPRING-RETURN MECHANISM TO RETURN THE SWITCH HANDLE TO THE NORMAL (VERTICAL) POSITION
- SELECTION OF LIGHTED ESCUTCHEON PLATES.

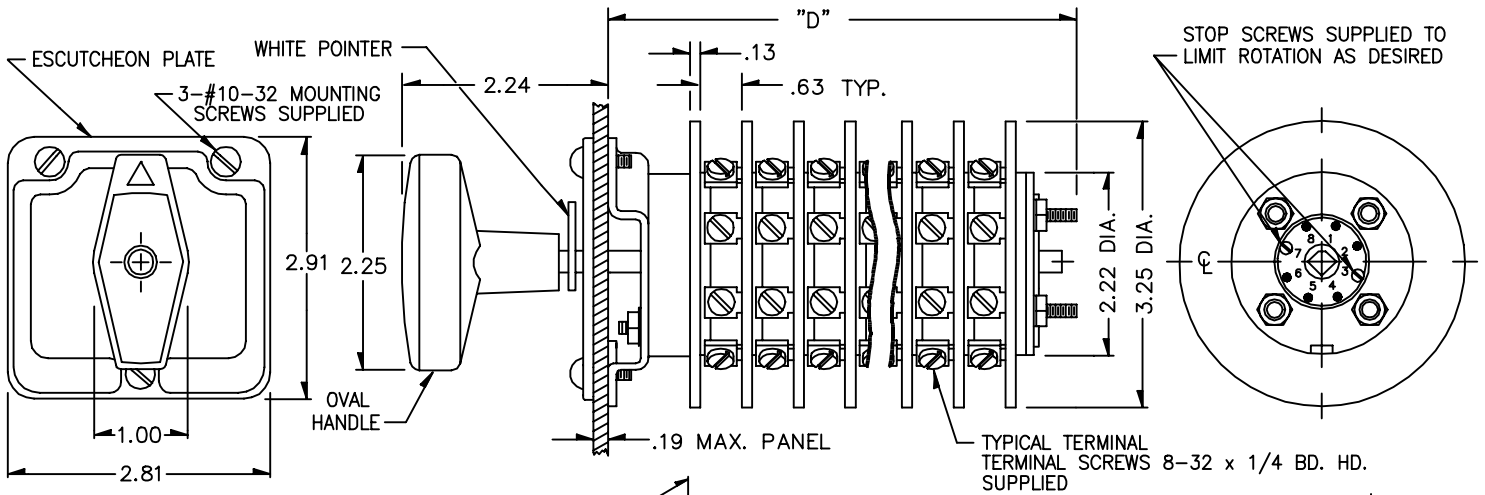
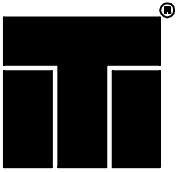
SPECIAL FEATURES FOR METER CONTROL SWITCHES INCLUDES:

- MAKE-BEFORE-BREAK (SHORTING) CONTACTS FOR AMMETER CONTROL (DESIGNED WITH PHYSICALLY OVERLAPPING CONTACTS)
- COMMON-INPUT TAP-SWITCH ARRANGEMENT WHERE BY THE METER MAY BE SEQUENTIALLY CONNECTED TO SEVERAL LINES USING THE SAME SWITCHING DECK
- POSITIVE "SNAPPY" POSITIONING DETENT MECHANISM
- PRE-WIRED JUMPERS

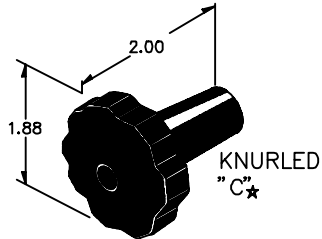
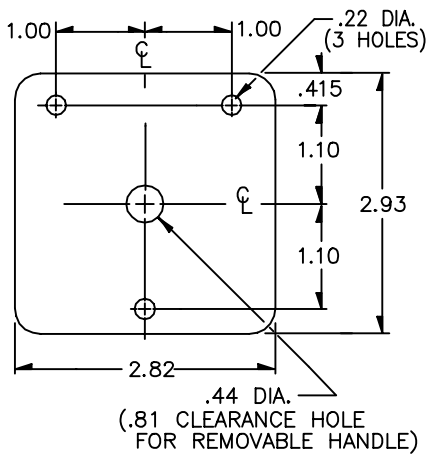
SPECIAL FEATURES FOR SYCHROSCOPE APPLICATIONS INCLUDES:

- REMOVABLE OVAL HANDLES
- KEY LOCKABLE ARRANGEMENTS

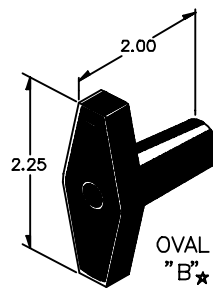
THE FOLLOWING DETAILS THE MOST COMMON APPLICATIONS, CONTACT ARRANGEMENTS AND ESCUTCHEON PLATE MARKINGS. FOR COMBINATION OF CONTACT ARRANGEMENTS, HANDLES, ESCUTCHEON PLATE MARKINGS AND SPECIAL FEATURES NOT SHOWN CONTACT FACTORY FOR AVAILABILITY.



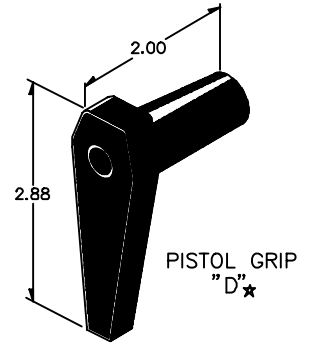
DRILL PATTERN & ESCUTCHEON PLATE DIMENSIONS



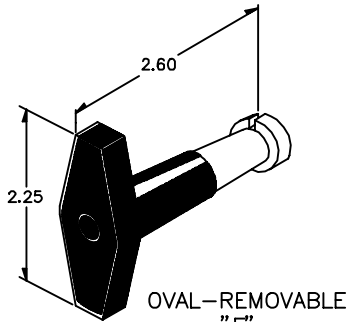
KNURLED "C"★



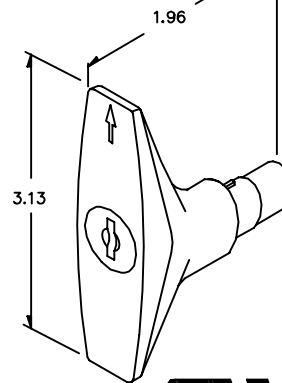
OVAL "B"★



PISTOL GRIP "D"★



OVAL-REMOVABLE "E"★



KEY LOCK "T" -HANDLE "RH"★

DEPTH BEHIND PANEL	
NUMBER OF DECKS	DEPTH INCHES "D"
1	2.4
2	2.9
3	3.6
4	4.3
5	4.8
6	5.4
7	6.2
8	6.6
9	7.4
10	8.0

Slip Contacts - add 1.5"
Pull-to-lock - add 1"

(These are approximate dimensions)



INTERRUPTING RATINGS:

UL & CUL GENERAL PURPOSE
UL FILE NO. E101598

20A-120VAC

15A-240VAC

6A-600VAC

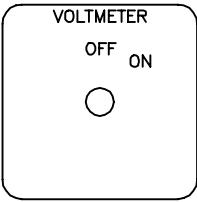
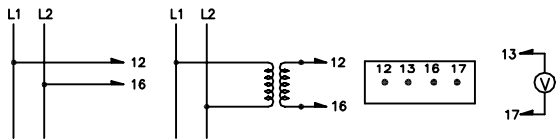
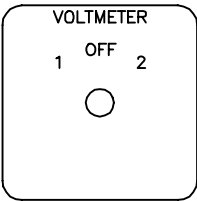
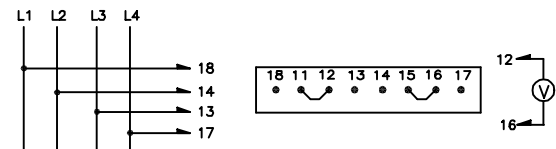
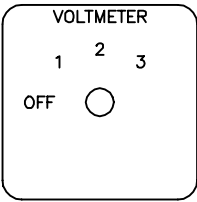
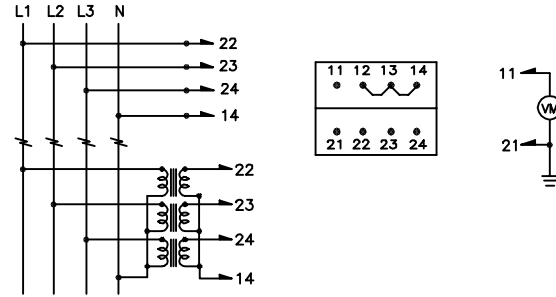
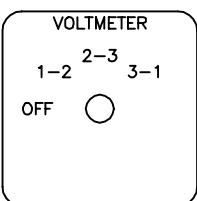
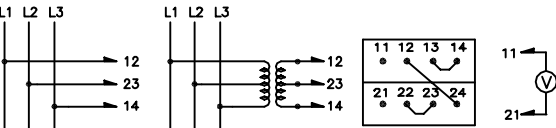
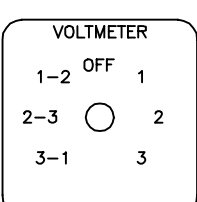
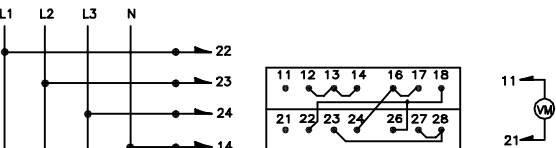
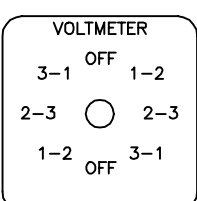
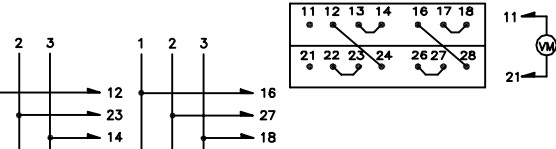
3A-125VDC

1A-250VDC

OPEN CONTINUOUS RATING - 30A-600V
DIELECTRIC STRENGTH - 2200VRMS

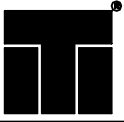
★ LETTER APPEARING AFTER MODEL NO: i.e., 952401C

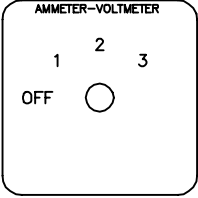
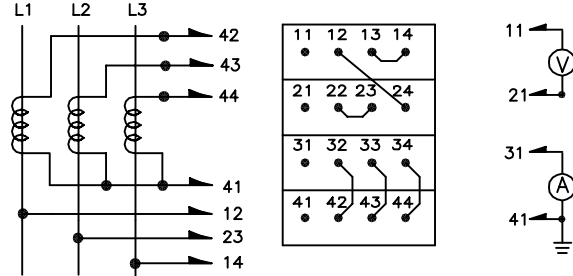
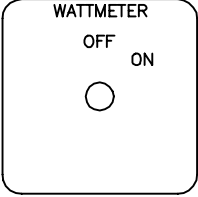
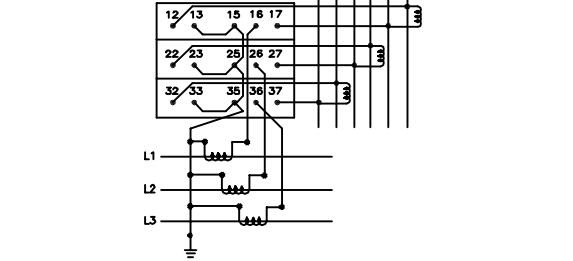
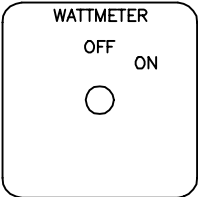
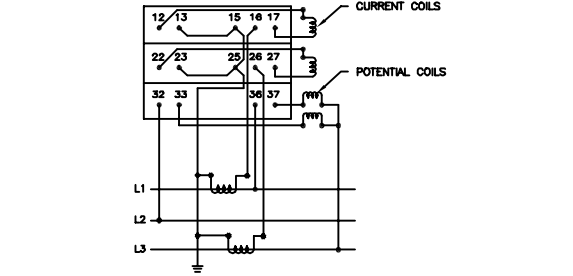
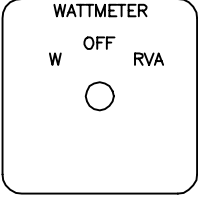
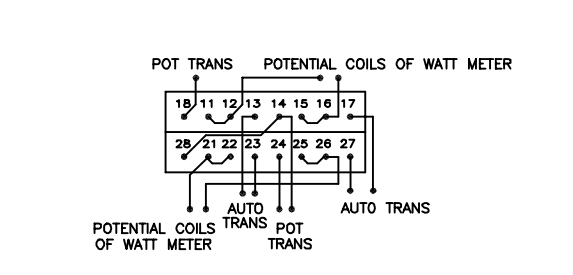
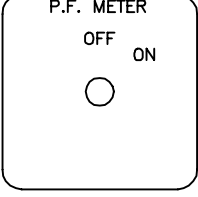
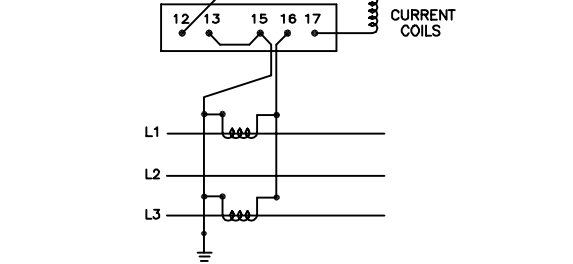
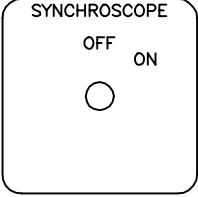
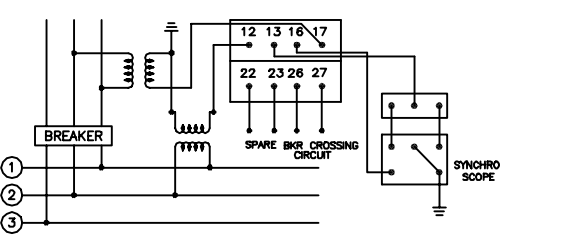


APPLICATION	ESCUTCHEON	CONTACTING AND WIRING DIAGRAMS																																																																				
<p>TRANSFER SWITCH</p> <p>2-wire, Single-phase or d-c Double-pole single-throw</p> <p>Handle: Round, knurled Cat. No. 952401C Depth behind panel - 2.40</p>	<p>VOLTMETER</p> <p>OFF ON</p>  <p>9510D-2V14</p>	<table border="1" data-bbox="748 331 976 447"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="2">POSITION</th> </tr> <tr> <th>OFF</th> <th>ON</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12-11-13</td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>16-11-17</td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION		OFF	ON	1	12-11-13		X		16-11-17		X																																																						
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	16-11-17		X																																																																			
<p>TRANSFER SWITCH</p> <p>4-wire, Two-phase or two separate d-c circuits Double-pole double-throw</p> <p>Handle: Round, knurled Cat. No. 952402C Depth behind panel - 2.40</p>	<p>VOLTMETER</p> <p>1 OFF 2</p>  <p>9510C-3V14</p>	<table border="1" data-bbox="748 594 976 730"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="2">POSITION</th> </tr> <tr> <th>1 OFF</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11-11-18</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>12-11-13</td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>15-11-14</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>16-11-17</td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION		1 OFF	2	1	11-11-18	X			12-11-13		X		15-11-14	X			16-11-17		X																																														
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<p>TRANSFER SWITCH</p> <p>3-phase, phase-to-neutral Double-pole triple throw</p> <p>Handle: Round, knurled Cat. No. 952403C Depth behind panel - 2.90</p>	<p>VOLTMETER</p> <p>1 2 3</p> <p>OFF</p>  <p>9510C-4V15A</p>	<table border="1" data-bbox="748 846 976 1066"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>1 OFF</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11-11-12</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>11-11-13</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>11-11-14</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>2</td> <td>21-21-22</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>21-21-23</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>21-21-24</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION			1 OFF	2	3	1	11-11-12	X				11-11-13		X			11-11-14			X	2	21-21-22	X				21-21-23		X			21-21-24			X																														
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<p>TRANSFER SWITCH</p> <p>3-phase, phase-to-phase Double-pole triple throw</p> <p>Handle: Round, knurled Cat. No. 952404C Depth behind panel - 2.90</p>	<p>VOLTMETER</p> <p>1-2 2-3 3-1</p> <p>OFF</p>  <p>9510C-4V21</p>	<table border="1" data-bbox="748 1150 976 1360"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>1 OFF</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11-11-12</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>11-11-13</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>11-11-14</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>2</td> <td>21-21-22</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>21-21-23</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>21-21-24</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION			1 OFF	2	3	1	11-11-12	X				11-11-13		X			11-11-14			X	2	21-21-22	X				21-21-23		X			21-21-24			X																														
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<p>TRANSFER SWITCH</p> <p>3-phase, phase-to-phase and phase-to-neutral Double-pole six throw</p> <p>Handle: Round, knurled Cat. No. 952405C Depth behind panel - 2.90</p>	<p>VOLTMETER</p> <p>1-2 OFF 1</p> <p>2-3 2</p> <p>3-1 3</p>  <p>9510E-7V24</p>	<table border="1" data-bbox="748 1402 976 1654"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>1 OFF</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11-11-12</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>11-11-13</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>11-11-14</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>11-11-17</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>11-11-18</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>2</td> <td>21-21-22</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>21-21-23</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>21-21-24</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>21-21-26</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>21-21-27</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>21-21-28</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION			1 OFF	2	3	1	11-11-12	X				11-11-13		X			11-11-14			X		11-11-17	X				11-11-18		X		2	21-21-22	X				21-21-23		X			21-21-24			X		21-21-26	X				21-21-27		X			21-21-28			X					
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<p>TRANSFER SWITCH</p> <p>6-wire, Two 3-phase circuits; phase-to-phase Double-pole six throw</p> <p>Handle: Round, knurled Cat. No. 952406C Depth behind panel - 2.90</p>	<p>VOLTMETER</p> <p>3-1 OFF 1-2</p> <p>2-3 2-3</p> <p>1-2 OFF 3-1</p>  <p>9510E-8V33</p>	<table border="1" data-bbox="748 1707 976 1938"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>1 OFF</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11-11-12</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>11-11-13</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>11-11-14</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>11-11-16</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>11-11-17</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>11-11-18</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>2</td> <td>21-21-22</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>21-21-23</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>21-21-24</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>21-21-26</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>21-21-27</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>21-21-28</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION			1 OFF	2	3	1	11-11-12	X				11-11-13		X			11-11-14			X		11-11-16	X				11-11-17		X			11-11-18			X	2	21-21-22	X				21-21-23		X			21-21-24			X		21-21-26	X				21-21-27		X			21-21-28			X
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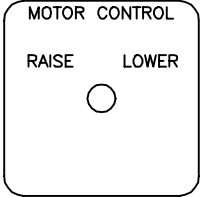
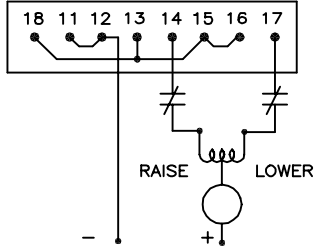
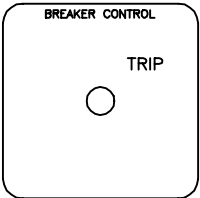
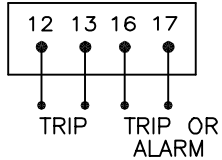
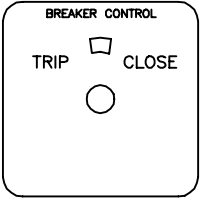
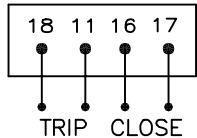
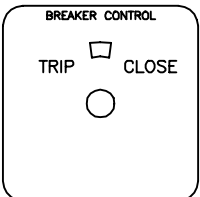
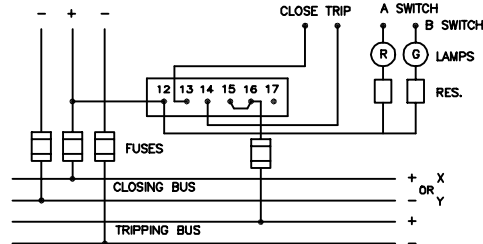
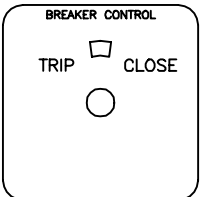
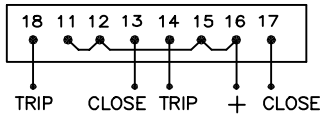
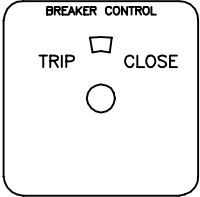
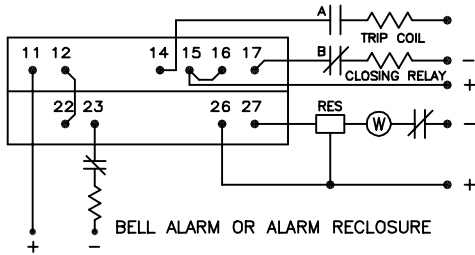


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<p>TRANSFER SWITCH</p> <p>3-phase, two current-transformers</p> <p>Handle: Round, knurled Cat. No. 952407C Depth behind panel - 2.90</p>	<p>AMMETER</p> <p>1 2 3</p> <p>9510C-3A10A</p>	<table border="1"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11-13 11-14</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>2</td> <td>21-23 21-24</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table> <p>★ DENOTES MAKE BEFORE BREAK</p>	DECK	CONTACT	POSITION			1	2	3	1	11-13 11-14	X	X	X	2	21-23 21-24	X	X	X																																													
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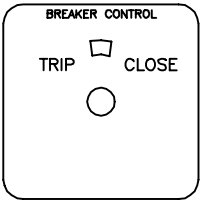
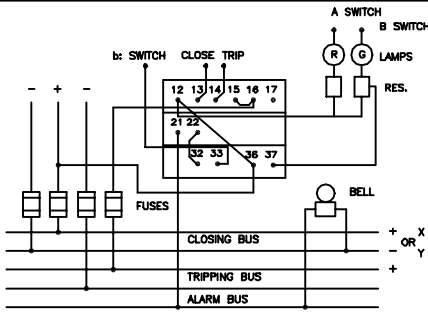
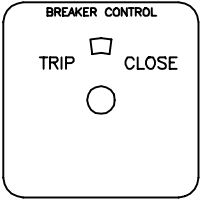
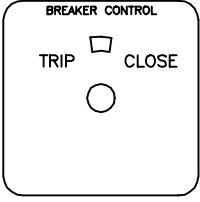
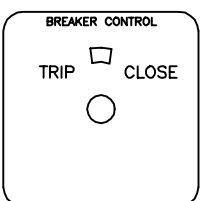
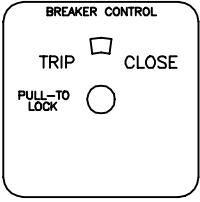
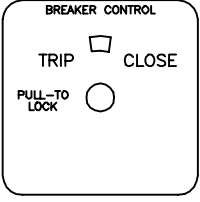


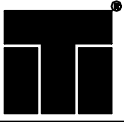
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<p>TRANSFER SWITCH</p> <p>3-phase, phase-to-phase three current-transformers</p> <p>Handle: Round, knurled Cat. No. 952415C Depth behind panel - 4.30</p>	 <p>9510C-4A23C</p>	<table border="1"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>OFF</th> <th>☆</th> <th>ON</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1</td> <td>11-12</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>11-13</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>11-14</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>21-22</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="4">2</td> <td>21-22</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>21-23</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>21-24</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>31-32</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="4">3</td> <td>31-32</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>31-33</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>31-34</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>41-42</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="4">4</td> <td>41-42</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>41-43</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>41-44</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>42-43</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table> <p>☆ DENOTES MAKE BEFORE BREAK</p>	DECK	CONTACT	POSITION			OFF	☆	ON	1	11-12	X	X	X	11-13	X	X	X	11-14	X	X	X	21-22	X	X	X	2	21-22	X	X	X	21-23	X	X	X	21-24	X	X	X	31-32	X	X	X	3	31-32	X	X	X	31-33	X	X	X	31-34	X	X	X	41-42	X	X	X	4	41-42	X	X	X	41-43	X	X	X	41-44	X	X	X	42-43	X	X	X	
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<p>TRANSFER SWITCH</p> <p>3-phase, two current-transformers two current-coils two potential coils</p> <p>Handle: Round, knurled Cat. No. 952420C Depth behind panel - 3.60</p>	 <p>9510D-2W14</p>	<table border="1"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>OFF</th> <th>☆</th> <th>ON</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1</td> <td>12-13</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>16-15</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>16-17</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="3">2</td> <td>22-23</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>26-25</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>26-27</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="3">3</td> <td>32-33</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>36-35</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>36-37</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table> <p>☆ DENOTES MAKE BEFORE BREAK</p>	DECK	CONTACT	POSITION			OFF	☆	ON	1	12-13	X	X	X	16-15	X	X	X	16-17	X	X	X	2	22-23	X	X	X	26-25	X	X	X	26-27	X	X	X	3	32-33	X	X	X	36-35	X	X	X	36-37	X	X	X																														
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<p>REVERSING SWITCH</p> <p>Handle: Round, knurled Cat. No. 952421C Depth behind panel - 2.90</p>	 <p>9510C-3W16</p>	<table border="1"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>W</th> <th>OFF</th> <th>RVA</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1</td> <td>11-18</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>12-13</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>15-14</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>18-17</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="4">2</td> <td>21-28</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>22-23</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>25-24</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>26-27</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>	DECK	CONTACT	POSITION			W	OFF	RVA	1	11-18	X	X	X	12-13	X	X	X	15-14	X	X	X	18-17	X	X	X	2	21-28	X	X	X	22-23	X	X	X	25-24	X	X	X	26-27	X	X	X																																			
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<p>SWITCH</p> <p>3-phase, two current-transformers one or two current-coils</p> <p>Handle: Round, knurled Cat. No. 952422C Depth behind panel - 2.40</p>	 <p>9510D-2P14</p>	<table border="1"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="2">POSITION</th> </tr> <tr> <th>OFF</th> <th>ON</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>12-13</td> <td>X</td> <td>X</td> </tr> <tr> <td>16-15</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">1</td> <td>16-17</td> <td>X</td> <td>X</td> </tr> </tbody> </table>	DECK	CONTACT	POSITION		OFF	ON	1	12-13	X	X	16-15	X	X	1	16-17	X	X																																																												
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	<p>SWITCH</p> <p>Machine-to-bus with interlocks</p> <p>Handle: Oval, removable Cat. No. 952424E Depth behind panel - 2.90</p>	 <p>9511D-2S17</p>	<table border="1"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="2">POSITION</th> </tr> <tr> <th>OFF</th> <th>ON</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1</td> <td>12-13</td> <td>X</td> <td>X</td> </tr> <tr> <td>16-17</td> <td>X</td> <td>X</td> </tr> <tr> <td>22-23</td> <td>X</td> <td>X</td> </tr> <tr> <td>26-27</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="4">2</td> <td>22-23</td> <td>X</td> <td>X</td> </tr> <tr> <td>26-27</td> <td>X</td> <td>X</td> </tr> <tr> <td>12-13</td> <td>X</td> <td>X</td> </tr> <tr> <td>16-17</td> <td>X</td> <td>X</td> </tr> </tbody> </table>	DECK	CONTACT	POSITION		OFF	ON	1	12-13	X	X	16-17	X	X	22-23	X	X	26-27	X	X	2	22-23	X	X	26-27	X	X	12-13	X	X	16-17	X	X																																												
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<p style="text-align: center;">SWITCH GOVERNOR OR RHEOSTAT</p> <p>Split-field motor</p> <p>Handle: Pistol-grip, spring-return Cat. No. 952427D Depth behind panel - 2.40</p>	<p style="text-align: center;">MOTOR CONTROL</p> <p style="text-align: center;">RAISE LOWER</p>  <p style="text-align: center;">9510B-2M22</p>	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>RAISE</th> <th>NORMAL</th> <th>LOWER</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1</td> <td>11-18</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>12-13</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>15-14</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>16-17</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION			RAISE	NORMAL	LOWER	1	11-18	X			12-13			X	15-14	X			16-17			X	
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<p style="text-align: center;">TRIP SWITCH</p> <p>Double-pole single-throw contacts normally open</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952436D Depth behind panel - 2.40</p>	<p style="text-align: center;">BREAKER CONTROL</p> <p style="text-align: center;">TRIP</p>  <p style="text-align: center;">9510D-1B18</p>	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="2">POSITION</th> </tr> <tr> <th>NORMAL</th> <th>TRIP</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>12-13</td> <td></td> <td>X</td> </tr> <tr> <td>16-17</td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION		NORMAL	TRIP	1	12-13		X	16-17		X													
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<p style="text-align: center;">CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952438D Depth behind panel - 2.40</p>	<p style="text-align: center;">BREAKER CONTROL</p> <p style="text-align: center;">TRIP CLOSE</p>  <p style="text-align: center;">9518B-2B23</p>	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NORMAL</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>11-18</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>16-17</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> 	DECK	CONTACT	POSITION			TRIP	NORMAL	CLOSE	1	11-18	X			16-17			X									
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<p style="text-align: center;">CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952440D Depth behind panel - 2.40</p>	<p style="text-align: center;">BREAKER CONTROL</p> <p style="text-align: center;">TRIP CLOSE</p>  <p style="text-align: center;">9518B-2B23</p>	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NORMAL</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>12-13</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>15-16</td> <td>X</td> <td></td> <td>X</td> </tr> </tbody> </table>  <p>• Contacts 15-16 connected internally in Normal Position.</p>	DECK	CONTACT	POSITION			TRIP	NORMAL	CLOSE	1	12-13			X	15-16	X		X									
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<p style="text-align: center;">CONTROL SWITCH</p> <p>Operate two breakers</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952441D Depth behind panel - 2.40</p>	<p style="text-align: center;">BREAKER CONTROL</p> <p style="text-align: center;">TRIP CLOSE</p>  <p style="text-align: center;">9518B-2B23</p>	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NORMAL</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>11-12</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>15-16</td> <td>X</td> <td></td> <td>X</td> </tr> </tbody> </table>  <p>• Contacts 11-12 & 15-16 connected internally in Normal Position.</p>	DECK	CONTACT	POSITION			TRIP	NORMAL	CLOSE	1	11-12	X			15-16	X		X									
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<p style="text-align: center;">CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952442D Depth behind panel - 4.30</p>	<p style="text-align: center;">BREAKER CONTROL</p> <p style="text-align: center;">TRIP CLOSE</p>  <p style="text-align: center;">9518B-2B23</p>	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NAT</th> <th>NAC</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>11-12</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>15-16</td> <td>X</td> <td></td> <td>X</td> </tr> <tr> <td rowspan="2">2</td> <td>22-23</td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>26-27</td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table>  <p>• Contacts 15-16 connected internally in Normal Position.</p>	DECK	CONTACT	POSITION			TRIP	NAT	NAC	1	11-12	X	X	X	15-16	X		X	2	22-23		X	X	26-27		X	X
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<p>CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952443D Depth behind panel - 4.70</p>	 <p>9518B-2B23</p>	<table border="1" data-bbox="792 331 1076 552"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="4">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NAT</th> <th>NAC</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>12 - - -13</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>15-16 - - -14</td> <td>X</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td rowspan="2">2</td> <td>21 - - -22</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>32 - - -33</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">3</td> <td>36 - - -37</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table>  <p>• Contacts 15-16 connected internally in Normal Position.</p>	DECK	CONTACT	POSITION				TRIP	NAT	NAC	CLOSE	1	12 - - -13				X	15-16 - - -14	X			X	2	21 - - -22		X	X	X	32 - - -33			X	X	3	36 - - -37			X	X																
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	<p>CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952444D Depth behind panel - 4.70</p>	 <p>9518B-2B23</p>	<table border="1" data-bbox="792 657 1076 877"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="4">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NAT</th> <th>NAC</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>11 - - -18</td> <td>X</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>16 - - -17</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td rowspan="2">2</td> <td>21 - - -22</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>25 - - -26</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">3</td> <td>32 - - -33</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>36 - - -37</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table> <p>} MEMORY DECK</p>	DECK	CONTACT	POSITION				TRIP	NAT	NAC	CLOSE	1	11 - - -18	X			X	16 - - -17				X	2	21 - - -22		X	X	X	25 - - -26		X	X	X	3	32 - - -33			X	X	36 - - -37			X	X										
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<p>CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952445D Depth behind panel - 5.40</p>	 <p>9518B-2B23</p>	<table border="1" data-bbox="792 919 1076 1140"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="4">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NAT</th> <th>NAC</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>11 - - -18</td> <td>X</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>16 - - -17</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td rowspan="2">2</td> <td>21 - - -22</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>32 - - -33</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">3</td> <td>36 - - -37</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>41 - - -42</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">4</td> <td>45 - - -46</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table> <p>} MEMORY DECK</p>	DECK	CONTACT	POSITION				TRIP	NAT	NAC	CLOSE	1	11 - - -18	X			X	16 - - -17				X	2	21 - - -22		X	X	X	32 - - -33			X	X	3	36 - - -37			X	X	41 - - -42	X	X			4	45 - - -46	X	X							
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	<p>CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952446D Depth behind panel - 5.40</p>	 <p>9518B-2B23</p>	<table border="1" data-bbox="792 1186 1076 1407"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="4">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NAT</th> <th>NAC</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>11 - - -18</td> <td>X</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>14 - - -15</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td rowspan="2">2</td> <td>21 - - -22</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>26 - - -27</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">3</td> <td>32 - - -33</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>36 - - -37</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">4</td> <td>42 - - -43</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>46 - - -47</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table> <p>} MEMORY DECK</p>	DECK	CONTACT	POSITION				TRIP	NAT	NAC	CLOSE	1	11 - - -18	X			X	14 - - -15				X	2	21 - - -22		X	X	X	26 - - -27		X	X	X	3	32 - - -33			X	X	36 - - -37			X	X	4	42 - - -43			X	X	46 - - -47			X
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<p>CONTROL SWITCH</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952452D Depth behind panel - 6.90</p>	 <p>9518B-2B23</p>	<table border="1" data-bbox="792 1743 1076 1963"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="4">POSITION</th> </tr> <tr> <th>PTL</th> <th>TRIP</th> <th>NAT</th> <th>NAC</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>12 - - -13</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>16 - - -17</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td rowspan="2">2</td> <td>21 - - -22</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>25 - - -26</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">3</td> <td>31 - - -38</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>41 - - -48</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">4</td> <td>52 - - -53</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>56 - - -57</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table> <p>Decks 3 & 4 are make-before-break } MEMORY DECK</p>	DECK	CONTACT	POSITION				PTL	TRIP	NAT	NAC	1	12 - - -13				X	16 - - -17				X	2	21 - - -22			X	X	25 - - -26			X	X	3	31 - - -38	X	X			41 - - -48	X	X			4	52 - - -53			X	X	56 - - -57			X	X
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<p style="text-align: center;">CONTROL SWITCH UNIVERSAL CIRCUIT</p> <p>Handle: Pistol-grip Spring-return Cat. No. 952457D Depth behind panel – 6.20</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>BREAKER CONTROL</p> <p>TRIP CLOSE</p> <p></p> </div> <p style="text-align: center;">9518B-2B23</p>	<table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="4">POSITION</th> </tr> <tr> <th>TRIP</th> <th>NAT</th> <th>NAC</th> <th>CLOSE</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>12 - - 13</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>16 - - 17</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td rowspan="2">2</td> <td>21 - - 23</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>24 - - 25</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">3</td> <td>31 - - 32</td> <td></td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>35 - - 36</td> <td></td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td rowspan="2">4</td> <td>42 - - 43</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>46 - - 47</td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td rowspan="2">5</td> <td>51 - - 52</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>55 - - 56</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">} MEMORY DECKS</p>	DECK	CONTACT	POSITION				TRIP	NAT	NAC	CLOSE	1	12 - - 13				X	16 - - 17				X	2	21 - - 23	X				24 - - 25					3	31 - - 32		X	X		35 - - 36		X	X		4	42 - - 43		X	X	X	46 - - 47		X	X	X	5	51 - - 52	X	X	X		55 - - 56	X	X													
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DESCRIPTION	<p>This first deck is shown. Contacting is identical for all decks. The contact number changes. The first digit is the deck number; e.g. <u>1</u>1 is deck 1, <u>2</u>1 is deck 2, etc.</p> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th rowspan="2">DECK</th> <th rowspan="2">CONTACT</th> <th colspan="7">POSITION</th> </tr> <tr> <th>OFF</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td rowspan="8" style="writing-mode: vertical-rl; transform: rotate(180deg);">1</td> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>17</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>	DECK	CONTACT	POSITION							OFF	1	2	3	4	5	6	7	1	11									12	X								13		X							14			X						15				X					16					X				17						X			18							X		<p>**The catalog numbers are for universal switches that provide all contacting shown. Oval handle supplied.</p> <p>To limit switches to positions shown put limit screws in holes in rear stop plate shown as "STOPS".</p> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>DECKS</th> <th>CATALOG NO.</th> <th>INCHES *</th> </tr> </thead> <tbody> <tr><td>1</td><td>9524301B</td><td>2.4</td></tr> <tr><td>2</td><td>9524302B</td><td>2.9</td></tr> <tr><td>3</td><td>9524303B</td><td>3.6</td></tr> <tr><td>4</td><td>9524304B</td><td>4.3</td></tr> <tr><td>5</td><td>9524305B</td><td>4.8</td></tr> <tr><td>6</td><td>9524306B</td><td>5.4</td></tr> <tr><td>7</td><td>9524307B</td><td>6.2</td></tr> <tr><td>8</td><td>9524308B</td><td>6.6</td></tr> <tr><td>9</td><td>9524309B</td><td>7.4</td></tr> <tr><td>10</td><td>9524310B</td><td>8.0</td></tr> </tbody> </table> <p>* DEPTH BEHIND PANEL</p>	DECKS	CATALOG NO.	INCHES *	1	9524301B	2.4	2	9524302B	2.9	3	9524303B	3.6	4	9524304B	4.3	5	9524305B	4.8	6	9524306B	5.4	7	9524307B	6.2	8	9524308B	6.6	9	9524309B	7.4	10	9524310B	8.0
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JUMPERS

Strap jumpers are available for adjacent contacts, and wire and lug assemblies are available for other terminal jumpering. The strap jumpers are available in packages of ten or twenty-five. The wire and lug assemblies are ordered individually. Data is as follows:

(Strap jumpers are silver-plated brass.)

CATALOG NO.	DESCRIPTION
9502011-10-C3	Jumper, adjacent terminals on the same deck.
9502012-12-C3	Jumper, same terminal location on adjacent deck.

(Wire and lug assemblies have #10 AWG wire and insulated ring lugs.)

CATALOG NO.	LENGTH (L)
95002012-1	3-1/16"
95002012-2	4-1/4"
95002012-3	5-5/8"



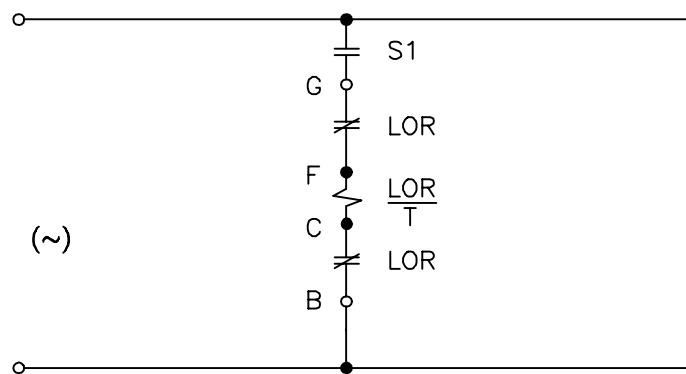


The Lock-out Relay (LOR) with up to 20 sets of N.O. & 20 sets of N.C. contacts is used in the electrical power industry. These control relays are often used in conjunction with differential relays for the protection of transformers, buses, and rotating machinery. During a predetermined condition a LOR that has been RESET is electrically tripped to the TRIP position. As a result, the LOR automatically locks out other circuit breakers and devices and must be RESET after the condition is eliminated.

The LOR requires no special circuitry except for a N.O. contact (S1) to trip the relay. The selection of the N.O. contact S1 should take into consideration the burden of trip coil and any external targets, since it will close into this current. Since the LOR is self-interrupting the S1 contact need not be concerned with breaking the TRIP circuit.

The LOR contacts shown in Figure 1 are normally closed in the reset position. B and G connect the LOR to the control circuit. C and F are the connection points for the integral trip coil.

The state of the N.O. contact S1 determines whether the LOR is in the TRIP or RESET position. When the LOR is in the RESET position, the N.O. contact of S1 closes to energize the LOR trip coil. This causes the LOR to open it's N.C. contacts, lock into the TRIP position, and remove itself from the circuit. An orange or black mechanical flag indicates, whether it is in the TRIP or RESET position. Orange indicates TRIP position Black indicates RESET position.



- MANUAL RESET LOR CONTROL CIRCUIT IN RESET POSITION

(~)

The LOR is a self-interrupting auxiliary relay which is energized for short periods of time. Based on 105°C class insulation this relay can be subjected to it's maximum design voltage without exceeding a 50°C rise in a 55°C ambient.

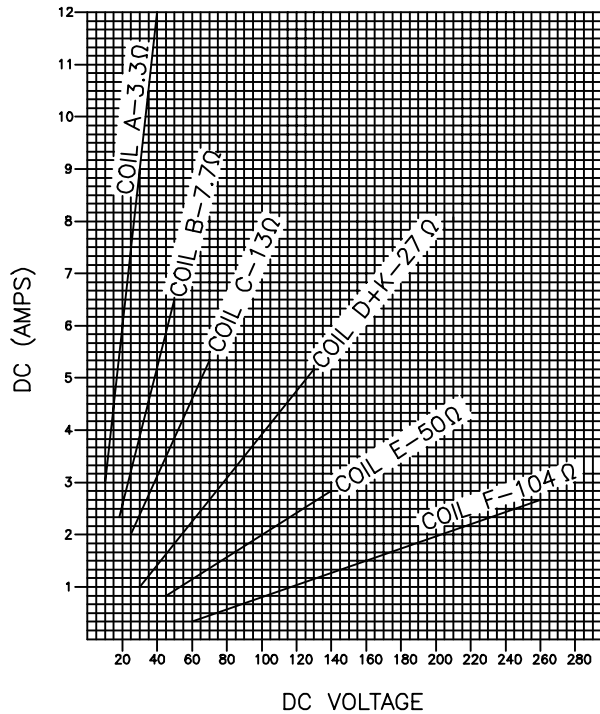


COIL	COIL CKT VOLTAGE	COIL RESISTANCE @ 25°C.	OPERATING RANGE	COIL CURRENT @ NORMAL VOLTAGE	COIL CURRENT @ MAXIMUM VOLTAGE OF OPERATING RANGE
A	24VDC	3.3	10–40VDC	7.3	12.2 AMPS DC
B	24VDC	7.7	18–50VDC	3.2	6.5 AMPS DC
C	48VDC	13	24–70VDC	3.7	5.4 AMPS DC
* D	125VDC	27	30–140VDC	4.6	5.2 AMPS DC
E	125VDC	50	45–150VDC	2.5	2.8 AMPS DC
F	250VDC	104	70–280VDC	2.4	2.7 AMPS DC
** K	125VDC	27	30–140VDC	4.6	5.2 AMPS DC

*ALSO FOR USE AT 120VAC
 **SPECIAL TIME DELAY COIL

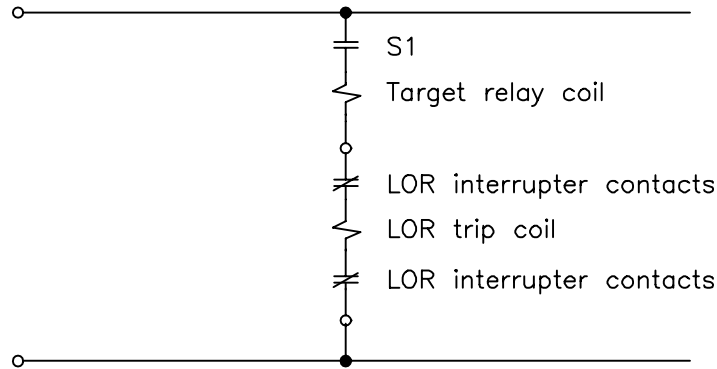
– COIL DATA

As shown in Fig 2 the LOR operates reliably over a wide range of voltages. Solenoids A,B,C,D,E, and F have overlapping voltage ranges to provide flexibility when selecting an operating speed for a specific burden current. For normal operation the voltage applied at the control bus should be within the operating range outlined in Figure 2. The current requirement for each coil is plotted against applied voltage at 20°C in Figure 3 as an additional aid in selection and system analysis. Solenoid K is a time delay coil – see Figure 13 for characteristics.



– CURRENT TO VOLTAGE RELATIONSHIPS FOR TRIPPING COILS

All LOR's have a mechanical target incorporated into the nameplate. Target position and color indicate the state of the relay, black for RESET and orange for TRIP. The target resets when the relay resets.



- SERIES LOR COIL W/TARGET

Auxiliary targets may be used in combination with the LOR to remotely indicate the status of the relay. When wired in series as in Figure 3, the .2A target operates suitably with the LOR. However, because of the relay's fast time response the 2A targets need special attention. Refer to Figures 4 thru 8 to select the appropriate coil for .2A targets at each DC operating voltage. .2A burden charecteristic assumptions are in Figure 5A.

OPERATING DC VOLTS	LOR TRIP COILS TO USE	
	.2A TARGET	2A TARGET
24	A,B,C	
48	B,C,D,E	
100	D,E,F	
125	D,E,F	D
140	D,E,F	D
190	F	D
250	F	D

- LOR COIL SELECTION

2A targets may also be selected from Figure 4 or 5. Using the target burden assumptions of Figure 5A, resistor and capacitor values from Figure 5; .2A targets may be wired per Figure 6, 7 or 8 when operated above the minimum voltages shown in figure 5.

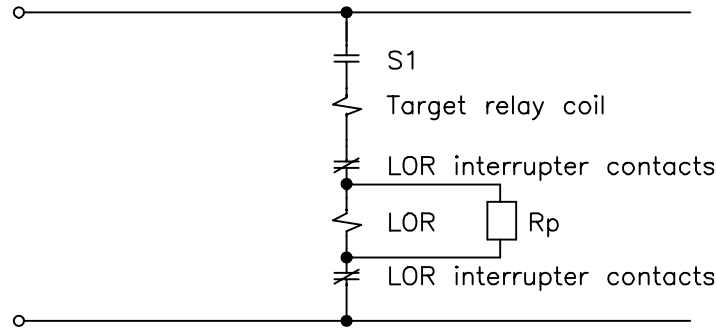
LOR TRIP COIL	NO ADDITIONAL CIRCUITRY (TARGET)			2A TARGET RESISTOR(Rp) IN PARALLEL		2A TARGET RC CIRCUIT (C1)		2A TARGET SERIES RESISTOR(RS)		
	.2A	.6A	2A	25 OHMS	50 OHMS	40 MFD	20 MFD	7 OHMS	12.3 OHMS	16.7 OHMS
A										90
B	12	12	12						90	
C								95		
D	24	40	118		80	95	105			
E				75	105					
F	40	150		70	125					

- MINIMUM D.C. VOLTAGE FOR OPERATION OF TARGET

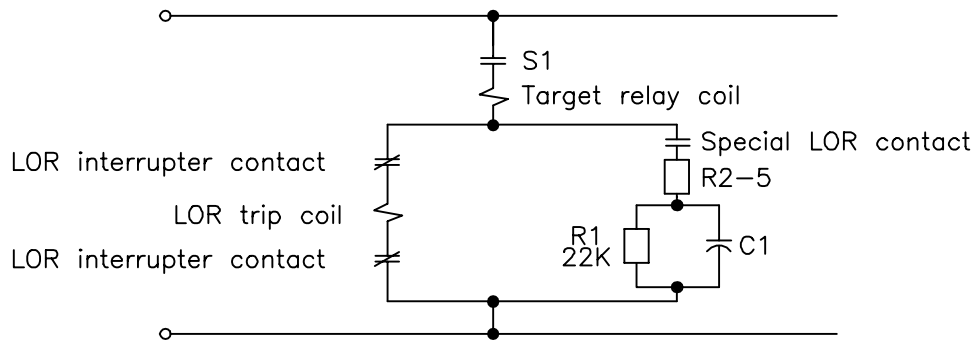


Values based on these Target coil characteristics	TARGET		
	.2A	.6A	2A
Coil resistance (ohms)	8.15	.71	.195
Pull-in current (amps)	.15	.45	1.75

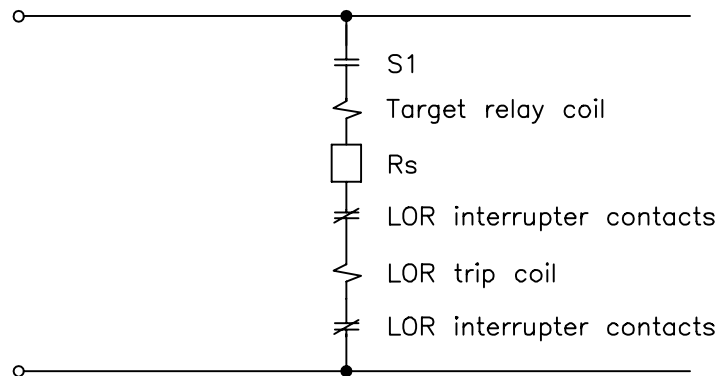
- MINIMUM D.C. VOLTAGE FOR OPERATION OF TARGET



- LOR TRIP CIRCUIT WITH PARALLEL RESISTOR (R_p).
SEE FIG. 6 FOR RECOMMENDED VALUES OF R_p .



- LOR TRIP CIRCUIT BRIEFLY CONNECTED WITH RC NETWORK INCREASES CURRENT THROUGH 2A TARGET. SEE FIGURE 5 FOR RECOMMEND CAPACITOR VALUES.



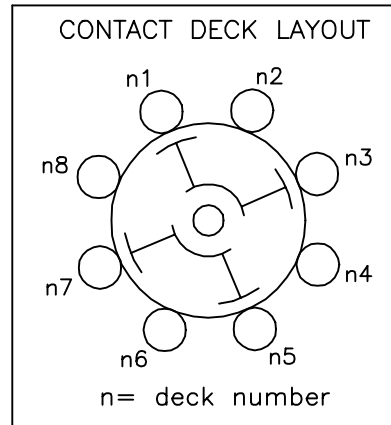
- SERIES RESISTOR (R_s) IN LOR TRIP CIRCUIT TO REDUCE COIL WATTAGE. SEE FIGURE 5 FOR CORRECT RESISTOR VALUES.



The LOR operates similar to a knife switch with double sided, spring wiper blades that close on a stationary terminal. A N.C. contact is achieved by bridging two stationary terminals. Made of phosphor-bronze, the wiper blades take advantage of the fine electrical conductivity and spring quality it provides. The blades are formed and riveted together to provide uniform pressure between the mating surfaces. The stationary terminals are made of copper.

All contact surfaces are clad with silver. A final overall silver plating of the terminals insures good contact for external connections. The contact construction insures low resistance, low bounce performance. Contact configuration is indicated in Figure 11.

DECK	CONTACTS	POSITION	
		TRIP	RESET
	11 ○ — — — —○ 13		
	12 ○ — — — —○ 18		
	15 ○ — — — —○ 17		
	16 ○ — — — —○ 14		
	21 ○ — — — —○ 23		
	22 ○ — — — —○ 28		
	25 ○ — — — —○ 27		
	26 ○ — — — —○ 24		
	91 ○ — — — —○ 98		
	92 ○ — — — —○ 98		
	95 ○ — — — —○ 97		
	96 ○ — — — —○ 94		
	101 ○ — — — —○ 103		
	102 ○ — — — —○ 108		
	105 ○ — — — —○ 107		
	106 ○ — — — —○ 104		



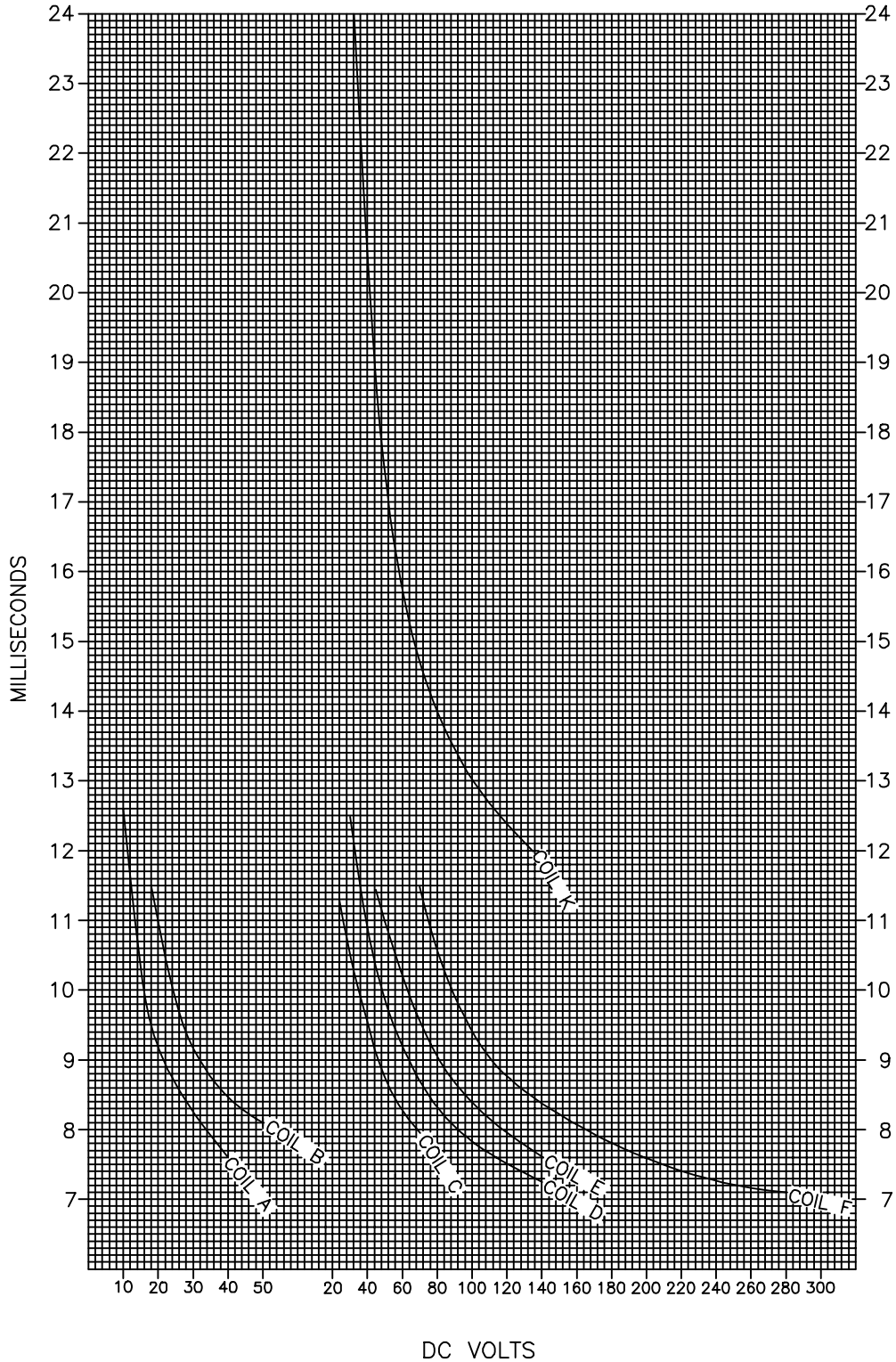
Contacts are indicated in the reset (or normally closed position).

— CONTACT CHART & DECK LAYOUT

A maximum number of 10 decks are available on the LOR for a total of twenty sets of NO and twenty sets of NC contacts. Using a blade and terminal configuration allows each deck to provide two N.O. and two N.C. contacts. Multi-deck LOR's have a two digit number associated with each terminal. The first digit refers to the deck number and the second indicates angular position. Consequently, terminal 68 would be located on the sixth deck in the eighth position.



The trip time for Coils A thru K at an ambient temperature of 20°C is indicated in Figure 12. This plot indicates the time to close normally open contacts on a 10 deck LOR.



- LOR TRIP TIME



The LOR's were witness tested by Underwriters Laboratories, Inc. (UL) and results are documented in UL File Number E101598. See Figure 13 for actual general purpose UL and Canadian UL (CUL) recognized ratings. These general purpose ratings are make, break, and carry ratings.

UL and CUL RECOGNIZED CONTACT RATINGS				
120Vac	240Vac	600Vac	125Vac	250Vac
20A	15A	6A	3A	1A

– CONTACT RATING CHART

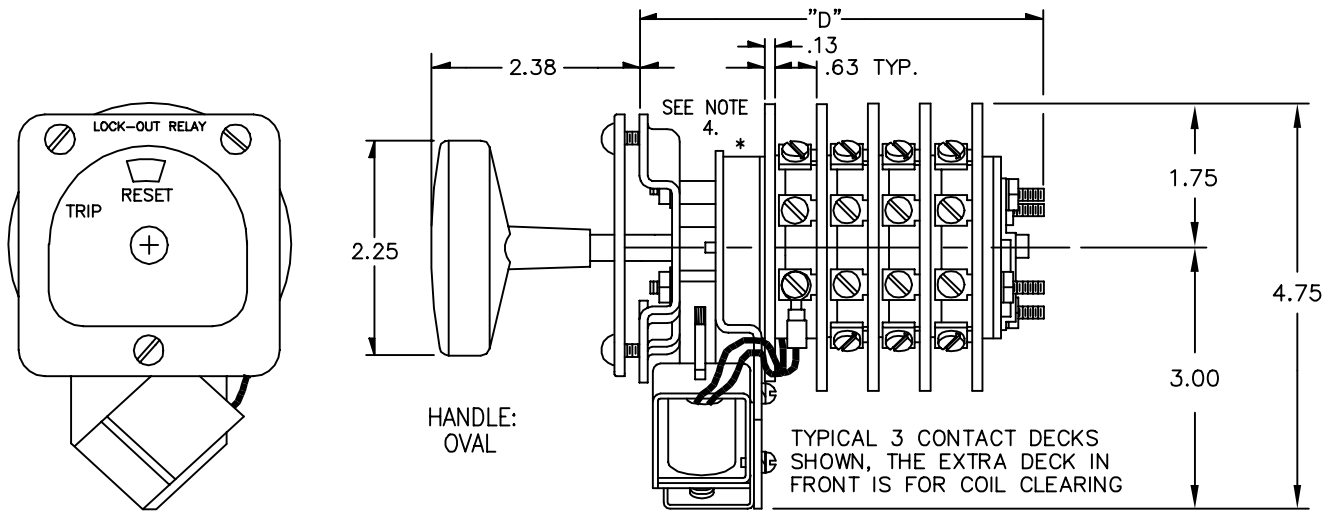
Figure 14 make only ratings were established by 6000 closing operations testing.

MAKE ONLY CONTACT RATINGS			
120Vac	240Vac	24–125Vdc	250Vdc
75A	37.5A	75A	37.5A

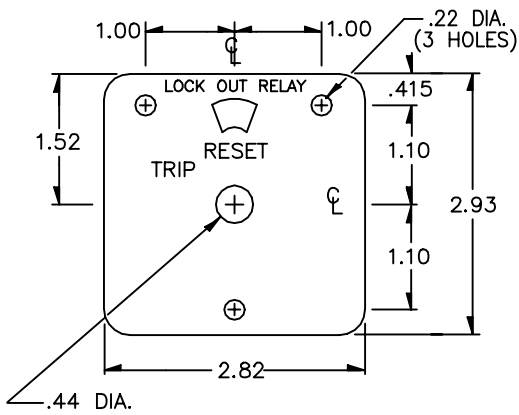
– MAKE ONLY RATINGS

The LOR uses a small linear solenoid with a mechanical advantage to control the heavy spring action required for tripping. A lever mechanism locks the LOR into the RESET position. Once RESET the full force of the main spring is transmitted perpendicular to a rolling surface. Switches with 6 decks or more will have dual torsion spring assemblies.

This locks the relay into the RESET position so that neither the lever nor a small roller can move. When energized the solenoid pushes against the lever, the small roller moves, and the LOR trips. To reset the LOR the handle must be rotated clockwise until the roller aligns again with the lever.



DRILL PATTERN & ESCUTCHEON PLATE DIMENSIONS



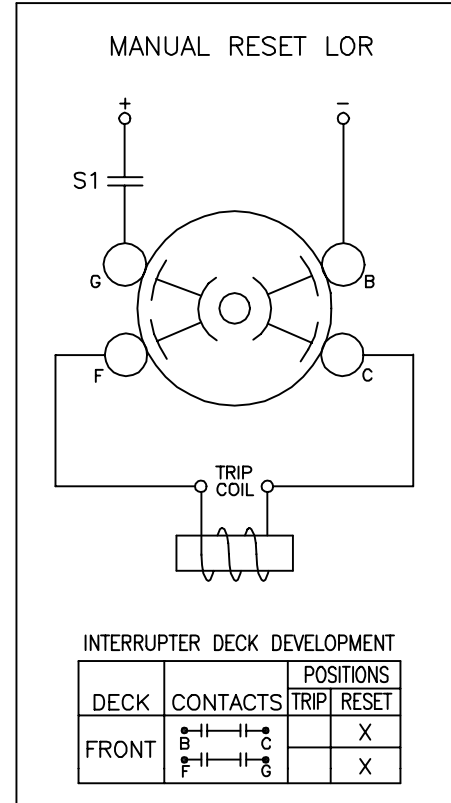
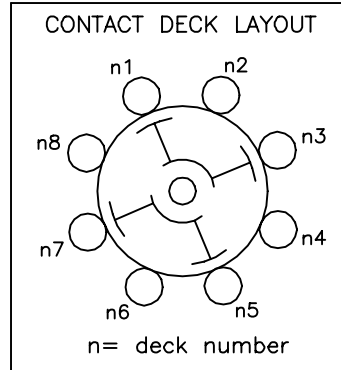
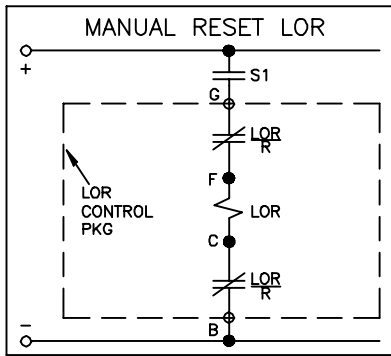
NOTES:

- All switch assemblies include the following
- 1. 1 - Escutcheon plate.
- 2. 3 - No.10-32 X 5/8" black mounting screws.
- 3. Handle, (oval) and 6-32 x 5/8 screw.
- 4. Switches with 6 or more decks require 2nd torsion spring assembly.

Complete technical data is outlined in Technical Publication ITLOR95.

GENERAL PURPOSE RATING			
	30A	600V open	CARRY
	20A	600V enclosed	CARRY
 E101598	20A	120VAC	.8 pf, MAKE & BREAK
	15A	240VAC	.8 pf, MAKE & BREAK
	6A	600VAC	.8 pf, MAKE & BREAK
	3A	125VDC	RESISTIVE, MAKE & BREAK
	1A	250VDC	RESISTIVE, MAKE & BREAK

DEPTH BEHIND PANEL	
NUMBER OF DECKS	DEPTH INCHES "D"
1	3.6
2	4.3
3	4.7
4	5.5
5	6.2
6	7.5
7	8.1
8	8.5
9	9.2
10	9.6



MINIMUM D.C. VOLTAGE FOR POSITIVE OPERATION OF TARGET

LOR TRIP COIL	NO ADDITIONAL CIRCUITRY (TARGET)			2A TARGET RESISTOR (RO) IN PARALLEL		2A TARGET RC CIRCUIT		2A TARGET SERIES RESISTOR (RS)		
	.2A	.6A	2A	25 OHMS	50 OHMS	40 MFD	20 MFD	7 OHMS	12.3 OHMS	16.7 OHMS
A	12	12	42						90	90
B								95		
C	24	40	118		80	95	105			
D	40	150		75	105					
E				70	125					
F										

COIL	COIL CKT VOLTAGE	COIL CURRENT @ NORMAL VOLTAGE	OPERATING RANGE	COIL CURRENT @ MAXIMUM VOLTAGE OF OPERATING RANGE	COIL RESISTANCE @ 25°C.
A	24VDC	7.3	10-40VDC	12.2 AMPS DC	3.3
B	24VDC	3.2	18-50VDC	6.5 AMPS DC	7.7
C	48VDC	3.7	24-70VDC	5.4 AMPS DC	13
D	125VDC	4.6	30-140VDC	5.2 AMPS DC	27
E	125VDC	2.5	45-150VDC	2.8 AMPS DC	50
F	250VDC	2.4	70-280VDC	2.7 AMPS DC	104
K	125VDC	4.6	30-140VDC	5.2 AMPS DC	27

TYPICAL SWITCH DEVELOPMENT FOR DECKS 1 THRU 10

DECKS	CONTACTS	POSITIONS	
		TRIP	RESET
n	n1 — — — n3		X
	n2 — — — n8	X	
	n5 — — — n7		X
	n4 — — — n6	X	

WHERE "n" IS DECK NUMBER

DECKS	10-40 VDC A COIL	18-50 VDC B COIL	24-70 VDC C COIL	30-140 VDC D COIL *	45-140 VDC E COIL	70-280 VDC F COIL	30-140 VDC K COIL
1	957801A	957801B	957801C	957801D	957801E	957801F	957801K
2	957802A	957802B	957802C	957802D	957802E	957802F	957802K
3	957803A	957803B	957803C	957803D	957803E	957803F	957803K
4	957804A	957804B	957804C	957804D	957804E	957804F	957804K
5	957805A	957805B	957805C	957805D	957805E	957805F	957805K
6	957806A	957806B	957806C	957806D	957806E	957806F	957806K
7	957807A	957807B	957807C	957807D	957807E	957807F	957807K
8	957808A	957808B	957808C	957808D	957808E	957808F	957808K
9	957809A	957809B	957809C	957809D	957809E	957809F	957809K
10	957810A	957810B	957810C	957810D	957810E	957810F	957810K

OPERATING DC VOLTS	LOR TRIP COILS TO USE	
	.2A TARGET	2A TARGET
24	A,B,C	
48	B,C,D,E	
100	D,E,F	
125	D,E,F	D
140	D,E,F	D
190	F	D
250	F	D

* D COIL HAS BEEN TESTED AND APPROVED FOR USE AT 120V AC.



SERIES 95 LIGHTED ESCUTCHEON PLATES

OPERATION – 4 ROWS OF LEDS:

Style 1, Standard Light Configuration

When the handle is turned to the CLOSE position, the flag shows red and the red lights are turned on by an auxiliary switch contact in the circuit breaker.

If there is a fault and the circuit breaker trips, an auxiliary switch contact (bell circuit) in the circuit breaker will close and the yellow lights will flash – see typical circuit on page 22.

When the handle is turned to TRIP position, the flag shows green and the green lights are turned on by an auxiliary switch contact in the circuit breaker.

If Style 2 (Reversed Light Configuration) is selected, the above operation will apply but exchange red for green and green for red.

OPERATION – 2 ROWS OF LEDS:

Style 1, Standard Light Configuration

When the handle is turned to the CLOSE position, the flag shows red and the red lights are turned on by an auxiliary switch contact in the circuit breaker.

When the handle is turned to TRIP position, the flag shows green and the green lights are turned on by an auxiliary switch contact in the circuit breaker.

If Style 2 (Reversed Light Configuration) is selected, the above operation will apply but exchange red for green and green for red.

MATERIALS LIST:

All lighted flag assemblies include the following–

- Escutcheon plate with flag assembly.
- Pistol grip handle with #6–32 x 5/8" screw.
- Wire connections are made with #6–32 x 3/8" slotted brass screws with lock washers.
- Switch mounting hardware, 3 ea #10–32 x 1" slotted truss head, black zinc plated screws.

NOTES:

1. Panel mounting thickness – 0.060" to 0.125".
2. Jumper may be added to terminals D, E and/or F for common circuit connections for LEDs.
3. Voltage input is not polarity sensitive.

ORDERING INSTRUCTIONS:

Specify standard switch catalog number and add Lighted Escutcheon DASH NUMBER, ex: 952438D–L4R120.

The Lighted Escutcheon requires a special shaft so the DASH NUMBER must be included on the initial switch order.

STYLE 1 STANDARD LIGHT CONFIGURATION

LED VOLTAGE RATING	ROWS OF LEDS	SERIES 95 DASH #
120VAC, 50/60Hz OR 125VDC	2	–L2R120
240VAC, 50/60Hz OR 250VDC	2	–L2R240
48VDC	2	–L2R48
120VAC, 50/60Hz OR 125VDC	4	–L4R120
240VAC, 50/60Hz OR 250VDC	4	–L4R240
48VDC	4	–L4R48

INDICATION	COLOR	TERMINAL DESIGNATIONS	DISPLAY
OPEN	GREEN	A & D	STEADY
CLOSE	RED	B & E	STEADY
*TRIPPED	YELLOW	C & F	FLASHING

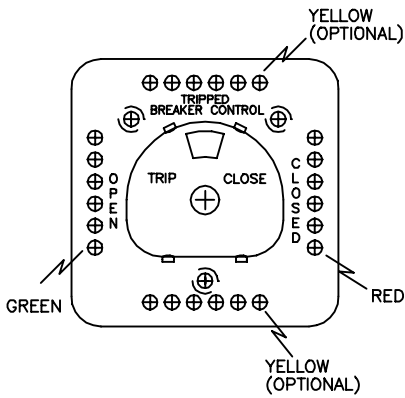
* WHEN PRESENT

STYLE 2 REVERSED LIGHT CONFIGURATION

LED VOLTAGE RATING	ROWS OF LEDS	SERIES 95 DASH #
120VAC, 50/60Hz OR 125VDC	2	–L2R120R
240VAC, 50/60Hz OR 250VDC	2	–L2R240R
48VDC	2	–L2R48R
120VAC, 50/60Hz OR 125VDC	4	–L4R120R
240VAC, 50/60Hz OR 250VDC	4	–L4R240R
48VDC	4	–L4R48R

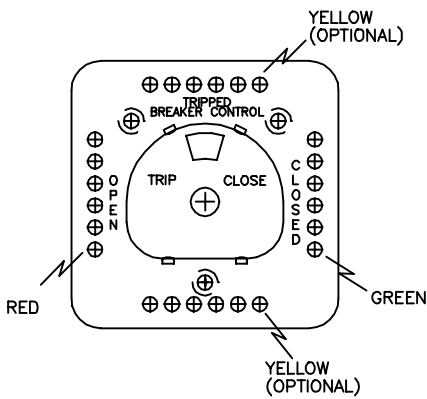
INDICATION	COLOR	TERMINAL DESIGNATIONS	DISPLAY
OPEN	RED	A & D	STEADY
CLOSE	GREEN	B & E	STEADY
*TRIPPED	YELLOW	C & F	FLASHING

* WHEN PRESENT



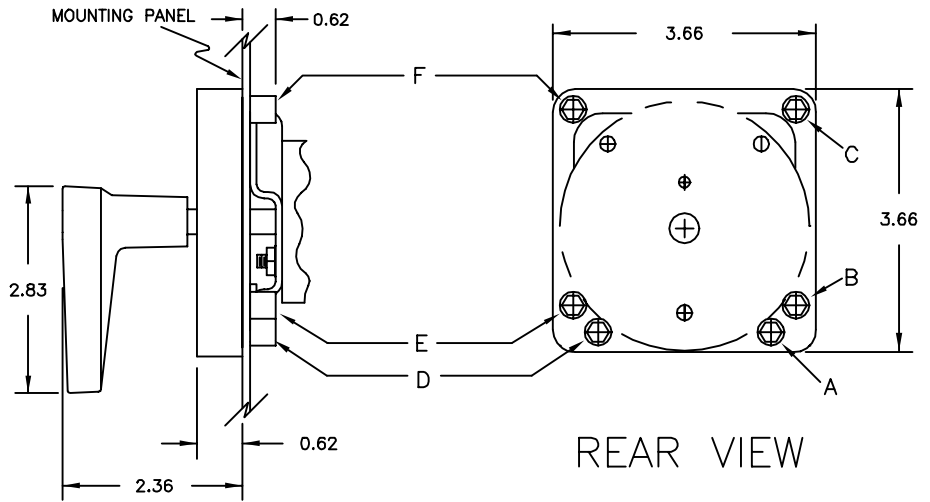
STYLE 1

STANDARD LIGHT CONFIGURATION

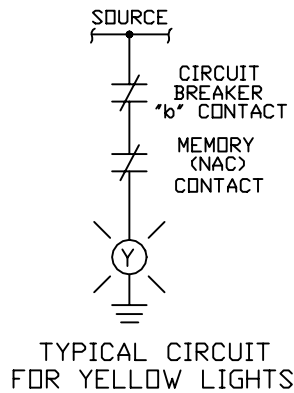


STYLE 2

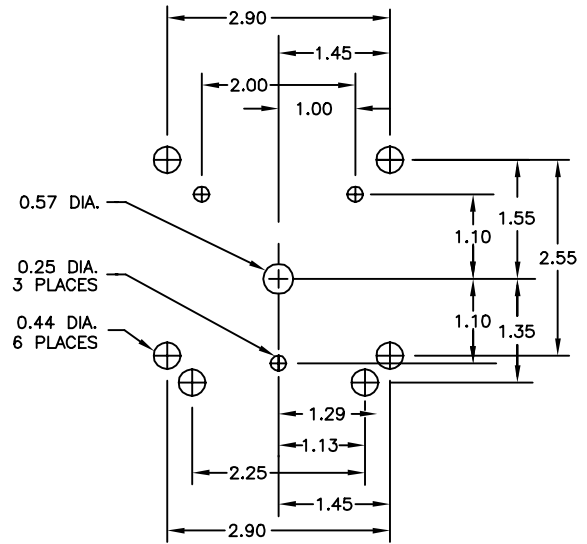
REVERSED LIGHT CONFIGURATION



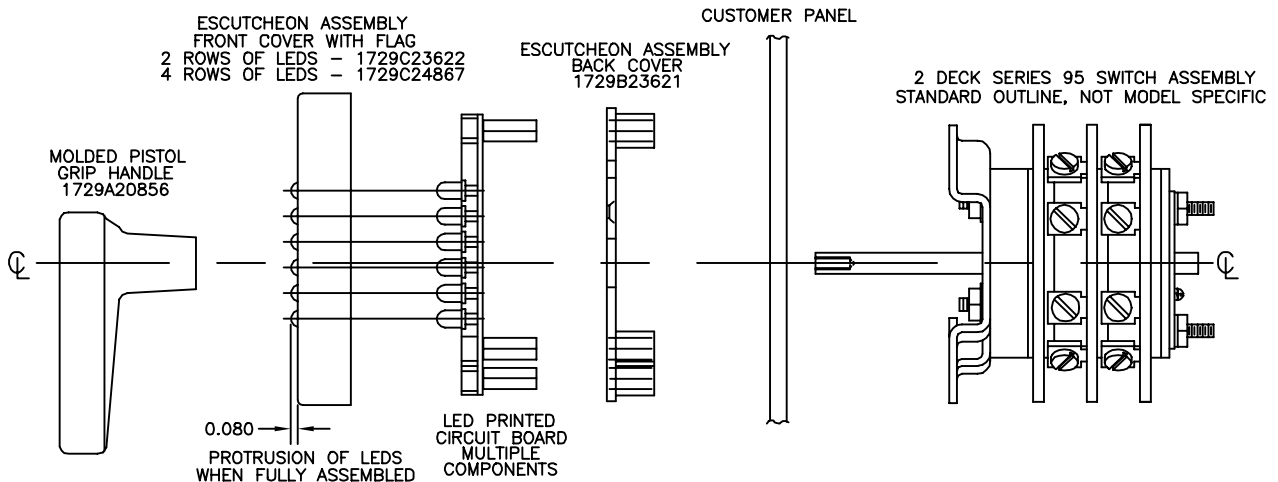
REAR VIEW



TYPICAL CIRCUIT FOR YELLOW LIGHTS



DRILL PATTERN

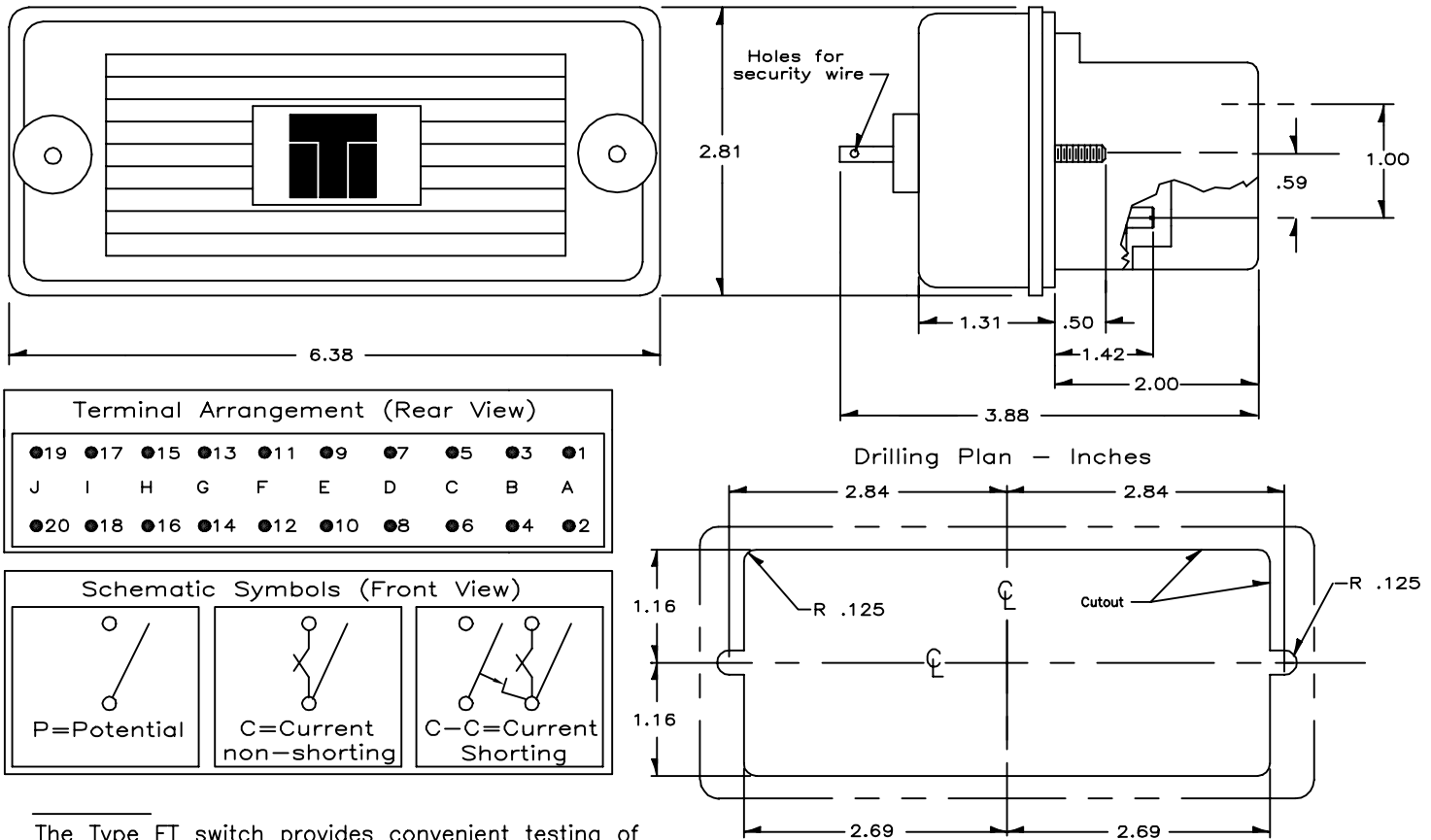


MULTI-CIRCUIT TEST SWITCH TYPE FT

REGULATORY AGENCY APPROVALS



- Up to 10 individual knife blade switches.
- Molded base & cover.
- For use with clips or test plug.
- Safe & convenient multi-circuit testing.
- Semi-flush mounting.



The Type FT switch provides convenient testing of multiple circuits on switchboard relays, meters, and instruments.

Versatility: Clip lead or test plug connections can be used. Independent knife blade switches may be mechanically interlocked to match testing requirements.

Accuracy: One properly connected test plug can rapidly and accurately test numerous circuits and devices.

Safety: Front panel testing provides safety and convenience.

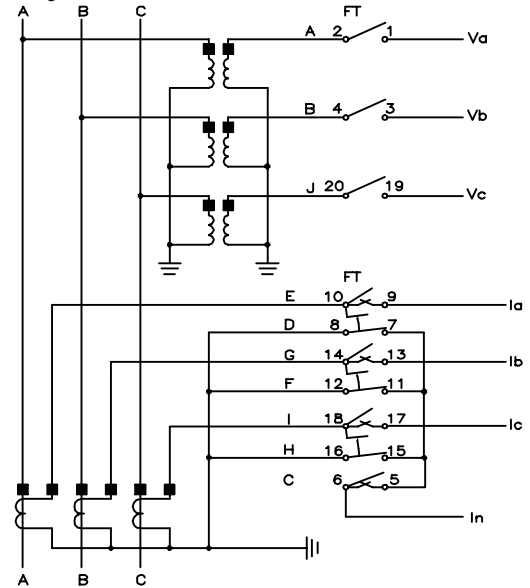
Durable one piece molded base has integral barriers between switches and rear accessible stud type terminals which provide adequate insulation and wiring space.

Circuit identification tag retainers and a hole for installing horizontal mechanical lock bar thru holes in handles are molded into each switch knob.

Current transformer circuits automatically short-circuit as knife blades are opened prior to test plug insertion.

Semi-flush front panel mounting provides convenient inspection and testing.

Typical FT Switch Connection Schematic using an FT-76 switch



- Each customer connection stud is provided with:
- 1- 8/32 Hex nut
 - 1- #8 Lock washer
 - 2- #8 Flat washers
 - 2- 10/32 Slotted mounting sleeve



MULTI-CIRCUIT TEST SWITCH TYPE FT

CONFIGURATION SELECTION CHART

	ITI CATALOG NO. FT-	ITI CATALOG NO. TP-	SWITCH CONFIGURATION									
			P=POTENTIAL * C=CURRENT (NON-SHORTING) * C-C=CURRENT (SHORTING)									
			A	B	C	D	E	F	G	H	I	J
2 POLE	-01	-109	P	P								
	-02	-109				P			P			
	-03	-106		C	C							
	-04	-107						C	C			
	-05	-101								C	C	
4 POLE	-06	-109	P	P	P							P
	-07	-109	P	P							P	P
	-08	-109	P						P	P	P	
	-09	-109			P	P	P	P				
	-10	-101	P	P						C	C	
	-11	-101	P							C	C	P
	-12	-108		C	C	C	C					
	-13	-102						C	C	C	C	
5 POLE	-15	-109	P	P						P	P	P
	-16	-101	P	P						C	C	P
	-17	-106	P	C	C	P						P
	-18			C	C		C		C			P
	-19		C		C		C		C		C	
6 POLE	-20	-109	P	P	P	P					P	P
	-21	-109	P	P	P					P	P	P
	-22	-109				P	P	P	P	P	P	
	-23	-101	P					P	P	C	C	P
	-24	-102	P	P					C	C	C	P
	-25	-102	P					C	C	C	C	P
	-26		C		C		C			C	C	C
	-27			C	C		C	C		C	C	
	-28				C	C	C	C	C	C		
	-29	-103				C	C	C	C	C	C	
	-30					C	C	C	C	C	C	
7 POLE	-31	-109	P	P	P	P			P	P	P	
	-32	-109	P	P	P	P				P	P	P
	-33	-109		P	P	P	P	P	P	P		
	-34	-109	P			P	P	P	P	P	P	
	-35	-109	P			P	P	P		P	P	P
	-36	-101	P	P	P	P	P			C	C	
	-37	-107	P	P					C	C	P	P
	-38	-106	P	C	C	P				P	P	P
	-39	-113	P	P	C		C		C		P	P
	-40	-102	P	P	P				C	C	C	C
	-41	-102	P	P					C	C	C	P
	-42		P	C	C		C		C			P



MULTI-CIRCUIT TEST SWITCH TYPE FT

CONFIGURATION SELECTION CHART

	ITI CATALOG NO. FT-	ITI CATALOG NO. TP-	SWITCH CONFIGURATION									
			P=POTENTIAL * C=CURRENT (NON-SHORTING) * C-C=CURRENT (SHORTING)									
			A	B	C	D	E	F	G	H	I	J
8 P O L E	-43	-109	P	P	P	P	P			P	P	P
	-44	-109	P	P	P	P			P	P	P	P
	-45	-109	P			P	P	P	P	P	P	P
	-46	-101	P	P	P	P	P			C—C		P
	-47	-107	P	P	P			C—C		P	P	P
	-48	-102	P	P	P	P		C—C		C—C		
	-49		P	P		C	C	C				P
	-50	-110	P	P		C—C		C—C			P	P
	-51	-105	P	C—C		P			P	C—C		P
	-52	-102			P	P	P	C—C		C—C		P
	-53	-108		C—C		C—C		C—C		P	P	
	-54	-108		C—C		C—C		C—C			P	P
	-55	-111	P		C	C—C		C—C		C—C		
	-56		C	C	C	C			C	C	C	C
-57			C	C	C	C	C	C	C	C		
-58	-111		C—C		C—C		C—C		C—C			
9 P O L E	-59	-109	P	P	P	P		P	P	P	P	P
	-60	-109	P	P		P	P	P	P	P	P	P
	-61		P	P	P	P	P		C—C		C	P
	-62	-102	P	P	P	P	P		C—C		C—C	
	-63	-102	P	P	P	P			C—C		C—C	P
	-64	-103	P	P		C—C		C—C		C—C		P
-65		C	C—C		C—C		C—C		C—C			
10 P O L E	-66	-109	P	P	P	P	P	P	P	P	P	P
	-67		C	P	P	P	P	P	P	P	P	P
	-68	-101	P	P	P	P	P	P	P	C—C		P
	-69		P	P	P	P	P	P	C	C—C		P
	-70	-102	P	P	P	P	P		C—C		C—C	P
	-71	-104	P	P	P	C—C		P	P	C—C		P
	-72	-105	P	C—C		P	P	P	P	C—C		P
	-73		C—C		C—C	P	P	P	P	P	P	P
	-74	-112	P	P	P	C—C		C—C		C—C		P
	-75		P	C—C		P	C—C		C—C		C—C	P
	-76	-111	P	P	C	C—C		C—C		C—C		P
	-77		P	C	C	C	C	C	C	C	C	P
	-78	-111	P	C—C		C—C		C—C		C—C		P
	-79		C—C		C—C	C—C		C—C		C—C*		P
	-80		C	C	C	C	C	C	C	C	C	P
	-81		C	C	C	C	C	C	C	C	C	C
	-82		C—C		C—C	C—C		C—C		C—C		C—C
-83		T	T	T	T	T	T	T	T	T	T	
-84		P	P	P	P	C—C		C—C		C—C		
-85		C—C		C—C	C—C		C—C		C—C		P	

* NO JAWS OR BLADE IN POSITION "H".