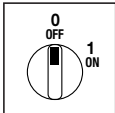
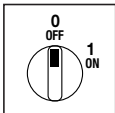
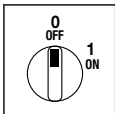
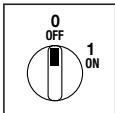
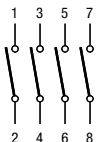
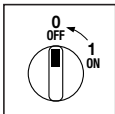
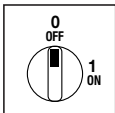
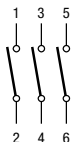
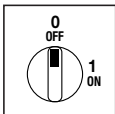
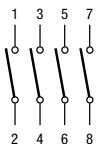


# Circuit diagrams

| Switches                                                                            |             |                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|-----|---|-------|-----|-----|----------|----------|----------|----|---|---------|---|---------|---|---------|-----|---------|----------|---|---|-------|----|----------|---------|----------|----------|----------|----------|--|--|--|--|-------|--|----------|--|----------|
| plate                                                                               | diagram     | function                                         | circuit diagram                                                                     | contact/element description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | element no. |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|    | <b>0001</b> | ON-OFF switch 1 pole                             |    | <table border="1"><tr><td></td><td><b>0</b></td><td></td><td></td><td>CR</td><td>60°</td></tr><tr><td></td><td><b>1</b></td><td>X</td><td></td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>3</td><td>4</td><td>CQ</td><td>90°</td></tr><tr><td>Element</td><td><b>1</b></td><td></td><td></td><td>Angle</td><td></td></tr></table>                                                                                                                                               |             | <b>0</b> |     |   | CR    | 60° |     | <b>1</b> | X        |          | CA |   | Contact | 1 | 3       | 4 | CQ      | 90° | Element | <b>1</b> |   |   | Angle |    | <b>1</b> |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>0</b>    |                                                  |                                                                                     | CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60°         |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>1</b>    | X                                                |                                                                                     | CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Contact                                                                             | 1           | 3                                                | 4                                                                                   | CQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90°         |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Element                                                                             | <b>1</b>    |                                                  |                                                                                     | Angle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|    | <b>0002</b> | ON-OFF switch 2 pole                             |    | <table border="1"><tr><td></td><td><b>0</b></td><td></td><td></td><td>CR</td><td>60°</td></tr><tr><td></td><td><b>1</b></td><td>X</td><td>X</td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>3</td><td>4</td><td>CQ</td><td>90°</td></tr><tr><td>Element</td><td><b>1</b></td><td></td><td></td><td>Angle</td><td></td></tr></table>                                                                                                                                              |             | <b>0</b> |     |   | CR    | 60° |     | <b>1</b> | X        | X        | CA |   | Contact | 1 | 3       | 4 | CQ      | 90° | Element | <b>1</b> |   |   | Angle |    | <b>1</b> |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>0</b>    |                                                  |                                                                                     | CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60°         |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>1</b>    | X                                                | X                                                                                   | CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Contact                                                                             | 1           | 3                                                | 4                                                                                   | CQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90°         |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Element                                                                             | <b>1</b>    |                                                  |                                                                                     | Angle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|    | <b>0003</b> | ON-OFF switch 3 pole                             |    | <table border="1"><tr><td></td><td><b>0</b></td><td></td><td></td><td></td><td>CR</td><td>60°</td></tr><tr><td></td><td><b>1</b></td><td>X</td><td>X</td><td>X</td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>CQ</td><td>90°</td></tr><tr><td>Element</td><td><b>1</b></td><td><b>2</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table>                    |             | <b>0</b> |     |   |       | CR  | 60° |          | <b>1</b> | X        | X  | X | CA      |   | Contact | 1 | 2       | 3   | 4       | 5        | 6 | 7 | 8     | CQ | 90°      | Element | <b>1</b> | <b>2</b> |          |          |  |  |  |  | Angle |  | <b>2</b> |  |          |
|                                                                                     | <b>0</b>    |                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CR          | 60°      |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>1</b>    | X                                                | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CA          |          |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Contact                                                                             | 1           | 2                                                | 3                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5           | 6        | 7   | 8 | CQ    | 90° |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Element                                                                             | <b>1</b>    | <b>2</b>                                         |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |          |     |   | Angle |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|   | <b>0004</b> | ON-OFF switch 4 pole                             |   | <table border="1"><tr><td></td><td><b>0</b></td><td></td><td></td><td></td><td></td><td>CR</td><td>60°</td></tr><tr><td></td><td><b>1</b></td><td>X</td><td>X</td><td>X</td><td>X</td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>CQ</td><td>90°</td></tr><tr><td>Element</td><td><b>1</b></td><td><b>2</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table> |             | <b>0</b> |     |   |       |     | CR  | 60°      |          | <b>1</b> | X  | X | X       | X | CA      |   | Contact | 1   | 2       | 3        | 4 | 5 | 6     | 7  | 8        | CQ      | 90°      | Element  | <b>1</b> | <b>2</b> |  |  |  |  |       |  | Angle    |  | <b>2</b> |
|                                                                                     | <b>0</b>    |                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | CR       | 60° |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>1</b>    | X                                                | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X           | CA       |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Contact                                                                             | 1           | 2                                                | 3                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5           | 6        | 7   | 8 | CQ    | 90° |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Element                                                                             | <b>1</b>    | <b>2</b>                                         |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |          |     |   | Angle |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|  | <b>0035</b> | ON-OFF switch 3 pole with spring return to "OFF" |  | <table border="1"><tr><td></td><td><b>0</b></td><td></td><td></td><td></td><td></td><td>CR</td><td>45°</td></tr><tr><td></td><td><b>1</b></td><td>X</td><td>X</td><td>X</td><td></td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>CQ</td><td></td></tr><tr><td>Element</td><td><b>1</b></td><td><b>2</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table>     |             | <b>0</b> |     |   |       |     | CR  | 45°      |          | <b>1</b> | X  | X | X       |   | CA      |   | Contact | 1   | 2       | 3        | 4 | 5 | 6     | 7  | 8        | CQ      |          | Element  | <b>1</b> | <b>2</b> |  |  |  |  |       |  | Angle    |  | <b>2</b> |
|                                                                                     | <b>0</b>    |                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | CR       | 45° |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>1</b>    | X                                                | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | CA       |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Contact                                                                             | 1           | 2                                                | 3                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5           | 6        | 7   | 8 | CQ    |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Element                                                                             | <b>1</b>    | <b>2</b>                                         |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |          |     |   | Angle |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|  | <b>00G3</b> | ON-OFF switch 3 pole with padlockable handle     |  | <table border="1"><tr><td></td><td><b>0</b></td><td></td><td></td><td></td><td></td><td>CR</td><td>90°</td></tr><tr><td></td><td><b>1</b></td><td>X</td><td>X</td><td>X</td><td></td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>CQ</td><td></td></tr><tr><td>Element</td><td><b>1</b></td><td><b>2</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table>     |             | <b>0</b> |     |   |       |     | CR  | 90°      |          | <b>1</b> | X  | X | X       |   | CA      |   | Contact | 1   | 2       | 3        | 4 | 5 | 6     | 7  | 8        | CQ      |          | Element  | <b>1</b> | <b>2</b> |  |  |  |  |       |  | Angle    |  | <b>2</b> |
|                                                                                     | <b>0</b>    |                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | CR       | 90° |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>1</b>    | X                                                | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | CA       |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Contact                                                                             | 1           | 2                                                | 3                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5           | 6        | 7   | 8 | CQ    |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Element                                                                             | <b>1</b>    | <b>2</b>                                         |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |          |     |   | Angle |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|  | <b>00G4</b> | ON-OFF switch 4 pole with padlockable handle     |  | <table border="1"><tr><td></td><td><b>0</b></td><td></td><td></td><td></td><td></td><td>CR</td><td>90°</td></tr><tr><td></td><td><b>1</b></td><td>X</td><td>X</td><td>X</td><td>X</td><td>CA</td><td></td></tr><tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>CQ</td><td></td></tr><tr><td>Element</td><td><b>1</b></td><td><b>2</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Angle</td><td></td></tr></table>    |             | <b>0</b> |     |   |       |     | CR  | 90°      |          | <b>1</b> | X  | X | X       | X | CA      |   | Contact | 1   | 2       | 3        | 4 | 5 | 6     | 7  | 8        | CQ      |          | Element  | <b>1</b> | <b>2</b> |  |  |  |  |       |  | Angle    |  | <b>2</b> |
|                                                                                     | <b>0</b>    |                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | CR       | 90° |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
|                                                                                     | <b>1</b>    | X                                                | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X           | CA       |     |   |       |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Contact                                                                             | 1           | 2                                                | 3                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5           | 6        | 7   | 8 | CQ    |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |
| Element                                                                             | <b>1</b>    | <b>2</b>                                         |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |          |     |   | Angle |     |     |          |          |          |    |   |         |   |         |   |         |     |         |          |   |   |       |    |          |         |          |          |          |          |  |  |  |  |       |  |          |  |          |

| Switches |             |                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |       |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
|----------|-------------|---------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-----|----|-----|-------|-----|-----|----|-------|----|-----|----|-------|----|--|---|---|----|----|-----|---------|----|-----|---------|---|---|-------|---------|-----|---------|---|---|---|-------|----------|---------|---|---|---|---|----|----|----|-------|---------|----------|----|----|----|----|----|----|----|-------|---------|--|---|--|--|----------|---|--|--|--|---|--|--|--|---|--|--|--|--|----------|
| plate    | diagram     | function                  | circuit diagram | contact/element description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | element no. |       |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
|          | <b>0005</b> | Change-over switch 1 pole |                 | <table><tr><td>2</td><td></td><td></td><td>X</td><td></td><td>CR</td><td>60°</td></tr><tr><td>0</td><td></td><td></td><td></td><td></td><td>CA</td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td></td><td>CQ</td><td>45°</td></tr><tr><td colspan="2">Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>Angle</td></tr><tr><td colspan="2">Element</td><td>1</td><td></td><td></td><td></td><td></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                            | 2           |       |     | X  |     | CR    | 60° | 0   |    |       |    |     | CA |       | 1  |  |   | X |    | CQ | 45° | Contact |    | 1   | 2       | 3 | 4 | Angle | Element |     | 1       |   |   |   |       | <b>1</b> |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 2        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CR          | 60°   |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 0        |             |                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CA          |       |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 1        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CQ          | 45°   |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Contact  |             | 1                         | 2               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4           | Angle |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Element  |             | 1                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |       |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
|          | <b>0006</b> | Change-over switch 2 pole |                 | <table><tr><td>2</td><td></td><td></td><td>X</td><td></td><td>X</td><td>CR</td><td>60°</td></tr><tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td>CA</td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td></td><td>X</td><td>CQ</td><td>45°</td></tr><tr><td colspan="2">Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>Angle</td></tr><tr><td colspan="2">Element</td><td>1</td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td></tr></table>                                                                                                                                                                                                                                                                                  | 2           |       |     | X  |     | X     | CR  | 60° | 0  |       |    |     |    |       | CA |  | 1 |   |    | X  |     | X       | CQ | 45° | Contact |   | 1 | 2     | 3       | 4   | 5       | 6 | 7 | 8 | Angle | Element  |         | 1 |   |   |   | 2  |    |    |       |         | <b>2</b> |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 2        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           | CR    | 60° |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 0        |             |                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | CA    |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 1        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           | CQ    | 45° |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Contact  |             | 1                         | 2               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4           | 5     | 6   | 7  | 8   | Angle |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Element  |             | 1                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 2     |     |    |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
|          | <b>0007</b> | Change-over switch 3 pole |                 | <table><tr><td>2</td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td>CR</td><td>60°</td></tr><tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>CA</td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td>CQ</td><td>45°</td></tr><tr><td colspan="2">Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>Angle</td></tr><tr><td colspan="2">Element</td><td>1</td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td></tr></table>                                                                                                                                          | 2           |       |     | X  |     | X     |     | X   | CR | 60°   | 0  |     |    |       |    |  |   |   | CA |    | 1   |         |    | X   |         | X |   | X     | CQ      | 45° | Contact |   | 1 | 2 | 3     | 4        | 5       | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Angle | Element |          | 1  |    |    |    | 2  |    |    |       | 3       |  |   |  |  | <b>3</b> |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 2        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |       | X   | CR | 60° |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 0        |             |                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |       |     | CA |     |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 1        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |       | X   | CQ | 45° |       |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Contact  |             | 1                         | 2               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4           | 5     | 6   | 7  | 8   | 9     | 10  | 11  | 12 | Angle |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Element  |             | 1                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 2     |     |    |     | 3     |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
|          | <b>0039</b> | Change-over switch 4 pole |                 | <table><tr><td>2</td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td>CR</td><td>60°</td></tr><tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>CA</td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td>CQ</td><td>45°</td></tr><tr><td colspan="2">Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>Angle</td></tr><tr><td colspan="2">Element</td><td>1</td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td></tr></table> | 2           |       |     | X  |     | X     |     | X   |    | X     | CR | 60° | 0  |       |    |  |   |   |    |    |     |         | CA |     | 1       |   |   | X     |         | X   |         | X |   | X | CQ    | 45°      | Contact |   | 1 | 2 | 3 | 4  | 5  | 6  | 7     | 8       | 9        | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Angle | Element |  | 1 |  |  |          | 2 |  |  |  | 3 |  |  |  | 4 |  |  |  |  | <b>4</b> |
| 2        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |       | X   |    | X   | CR    | 60° |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 0        |             |                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |       |     |    |     | CA    |     |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| 1        |             |                           | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |       | X   |    | X   | CQ    | 45° |     |    |       |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Contact  |             | 1                         | 2               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4           | 5     | 6   | 7  | 8   | 9     | 10  | 11  | 12 | 13    | 14 | 15  | 16 | Angle |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |
| Element  |             | 1                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 2     |     |    |     | 3     |     |     |    | 4     |    |     |    |       |    |  |   |   |    |    |     |         |    |     |         |   |   |       |         |     |         |   |   |   |       |          |         |   |   |   |   |    |    |    |       |         |          |    |    |    |    |    |    |    |       |         |  |   |  |  |          |   |  |  |  |   |  |  |  |   |  |  |  |  |          |

## Motor control switches 3 phase

Motor control switches 3 phase

| plate | diagram | function | circuit diagram | contact/element description | <div><div><div>L1</div><div>L2</div><div>L3</div></div><div><div>R</div><div>S</div><div>T</div></div></div> |
|-------|---------|----------|-----------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|
|-------|---------|----------|-----------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|

element no.

|  | 0008 | Reversing switch 3 pole |  | |         |   |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |       |     | |---------|---|---|---|---|---|---|---|---|---|----|----|----|--|--|--|--|--|-------|-----| | 2       |   |   | × | × |   | × |   |   |   |    |    |    |  |  |  |  |  | CR    | 60° | | 0       |   |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  | CA    |     | | 1       | × |   |   |   |   |   |   |   | × | ×  | ×  |    |  |  |  |  |  | CQ    | 45° | | Contact | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |  |  |  | Angle |     | | Element | 1 | 2 | 3 |   |   |   |   |   |   |    |    |    |  |  |  |  |  |       |     | |  | 3 |
|  | 0036 | Reversing switch 3 pole with spring return to "off" |  | |         |   |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  |       |     | |---------|---|---|---|---|---|---|---|---|---|----|----|----|--|--|--|--|--|-------|-----| | 2       |   |   | × | × |   |   |   |   |   | ×  |    |    |  |  |  |  |  | CR    | 45° | | 0       |   |   |   |   |   |   |   |   |   |    |    |    |  |  |  |  |  | CA    |     | | 1       | × |   |   |   |   |   |   |   |   | ×  | ×  | ×  |  |  |  |  |  | CQ    |     | | Contact | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |  |  |  | Angle |     | | Element | 1 | 2 | 3 |   |   |   |   |   |   |    |    |    |  |  |  |  |  |       |     | |  | 3 |
|  | 0009 | Changing switch Dahlander pole |  | |         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |  |       |     | |---------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--|-------|-----| | 2       | × |   |   | × | × |   |   |   |   | ×  | ×  |    |    |    |    |    |  | CR    | 60° | | 0       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |  | CA    |     | | 1       |   |   | × |   |   |   |   | × | × | ×  |    |    |    |    |    |    |  | CQ    | 45° | | Contact | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  | Angle |     | | Element | 1 | 2 | 3 | 4 |   |   |   |   |   |    |    |    |    |    |    |    |  |       |     | |  | 4 |
|  | 0010 | STAR-DELTA Starter |  | |         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |  |       |     | |---------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--|-------|-----| | Δ       | × | × | × |   |   | × |   | × | × | ×  |    |    |    |    |    |    |  | CR    | 60° | | Y       | × |   |   |   |   | × | × | × | × | ×  |    |    |    |    |    |    |  | CA    |     | | 0       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |  | CQ    |     | | Contact | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  | Angle |     | | Element | 1 | 2 | 3 | 4 |   |   |   |   |   |    |    |    |    |    |    |    |  |       |     | |  | 4 |
|  | 0011 | Reversing switch Pole changing |  | |         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    | |---------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----| | 2       | × |   |   | × | × | × |   | × | × | ×  |    |    |    |    |    |    |    | CR | 45° |    |    |    |    |    | | 0       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    | CA |     |    |    |    |    |    | | 1       | × |   | × |   |   |   |   | × | × |    |    |    | ×  |    |    |    |    | CQ |     |    |    |    |    |    | | 0       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    | | 1       |   | × | × |   |   |   |   | × | × |    |    |    | ×  |    |    |    |    |    |     |    |    |    |    |    | | 0       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    | | 2       |   | × | × |   |   |   |   | × | × |    |    |    | ×  | ×  | ×  |    |    |    |     |    |    |    |    |    | | Contact | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19  | 20 | 21 | 22 | 23 | 24 | | Element | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19  | 20 | 21 | 22 | 23 | 24 | |  | 6 |

## Motor control switches single phase

Motor control switches single phase

L1

R

S

element no.

plate

diagram

function

circuit diagram

contact/element description

0

OFF

1

ON

START

0031

Switch single-phase motor + aux phase

R

S

|            |   |   |   |   |   |   |   |   |       |    |    |     |    |
|------------|---|---|---|---|---|---|---|---|-------|----|----|-----|----|
| <b>Avv</b> | 1 |   |   |   |   |   |   |   |       | CR | CA | 45° | CQ |
| <b>0</b>   |   |   |   |   |   |   |   |   |       |    |    |     |    |
| Contact    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Angle |    |    |     |    |
| Element    | 1 |   | 2 |   |   |   |   |   |       |    |    |     |    |

RUN

START

2

0

OFF

1

START

2

START

0032

Reversing Switch single-phase motor + aux phase

R

S

|            |   |   |   |   |   |   |   |   |   |    |    |    |       |    |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|-------|----|
| <b>Avv</b> | 1 |   |   |   |   |   |   |   |   |    | CR | CA | 45°   | CQ |
| <b>0</b>   |   |   |   |   |   |   |   |   |   |    |    |    |       |    |
| <b>1</b>   |   |   |   |   |   |   |   |   |   |    |    |    |       |    |
| <b>Avv</b> | 1 |   |   |   |   |   |   |   |   |    |    |    |       |    |
| Contact    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Angle |    |
| Element    | 1 |   | 2 |   | 3 |   |   |   |   |    |    |    |       |    |

RUN

START

3

0

OFF

1

2

0034

Reversing Switch single-phase motor + centrif.

R

S

|          |   |   |   |   |   |   |   |   |   |    |    |    |       |    |
|----------|---|---|---|---|---|---|---|---|---|----|----|----|-------|----|
| <b>2</b> | 1 |   |   |   |   |   |   |   |   |    | CR | CA | 45°   | CQ |
| <b>0</b> |   |   |   |   |   |   |   |   |   |    |    |    |       |    |
| <b>1</b> |   |   |   |   |   |   |   |   |   |    |    |    |       |    |
| Contact  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Angle |    |
| Element  | 1 |   | 2 |   | 3 |   |   |   |   |    |    |    |       |    |

RUN

START

3

## Voltmeter & Ammeter switches

| plate   | diagram | function                                                            | circuit diagram | contact/element description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | element no. |   |    |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
|---------|---------|---------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|----|-----|-------|-----|----|----|-------|-------|-----|------|--|---|---|---|----|-------|---|---|----|------|--|---|----|---|---|---|---|---|----|---|--|---------|---|---|---|---|---|---|---|---------|-------|---------|---|---|---|---|---|---|---|-------|----|----|-------|---------|---|---|---|--|--|-------|---|--|--|--|--|--|---|--|---|---------|---|---|---|---|---|---|---|---|---|----|----|----|-------|---------|---|---|---|--|--|--|--|--|--|--|--|--|--|--|---|
|         |         | Voltmeter switch<br>3 concatenated<br>voltages                      |                 | <table> <tr> <td>L3-L1</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>CR</td><td rowspan="4">45°</td></tr> <tr> <td>L2-L3</td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>CA</td></tr> <tr> <td>L1-L2</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>CQ</td></tr> <tr> <td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>Angle</td></tr> <tr> <td>Element</td><td>1</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L3-L1       |   |    | X   | X     |     |    | CR | 45°   | L2-L3 |     |      |  | X | X | X | CA | L1-L2 | X |   |    |      |  | X | CQ | 0 |   |   |   |   |    |   |  | Contact | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8       | Angle | Element | 1 | 2 |   |   |   |   |   |       |    |    | 2     |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L3-L1   |         |                                                                     | X               | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |   | CR | 45° |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L2-L3   |         |                                                                     |                 | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X           | X | CA |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L1-L2   | X       |                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | X | CQ |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| 0       |         |                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   |    |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| Contact | 1       | 2                                                                   | 3               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5           | 6 | 7  | 8   | Angle |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| Element | 1       | 2                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   |    |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
|         |         | Voltmeter switch 3<br>concatenated voltages<br>and 3 phase voltages |                 | <table> <tr> <td>L3-N</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>CR</td><td rowspan="4">45°</td></tr> <tr> <td>L2-N</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td>X</td><td>CA</td></tr> <tr> <td>L1-N</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td>CQ</td></tr> <tr> <td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>L1-L2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td></tr> <tr> <td>L2-L3</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>L3-L1</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr> <tr> <td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>Angle</td></tr> <tr> <td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | L3-N        | X |    |     |       |     |    | X  |       | CR    | 45° | L2-N |  |   |   | X |    |       |   | X | CA | L1-N |  |   |    |   |   |   | X | X | CQ | 0 |  |         |   |   |   |   |   |   |   | L1-L2   |       |         |   |   |   |   | X | X |   | L2-L3 |    |    | X     | X       |   |   |   |  |  | L3-L1 | X |  |  |  |  |  | X |  |   | Contact | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Angle | Element | 1 | 2 | 3 |  |  |  |  |  |  |  |  |  |  |  | 3 |
| L3-N    | X       |                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   | X  |     | CR    | 45° |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L2-N    |         |                                                                     |                 | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |   |    | X   | CA    |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L1-N    |         |                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   | X  | X   | CQ    |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| 0       |         |                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   |    |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L1-L2   |         |                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   | X  | X   |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L2-L3   |         |                                                                     | X               | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |   |    |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| L3-L1   | X       |                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   | X  |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| Contact | 1       | 2                                                                   | 3               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5           | 6 | 7  | 8   | 9     | 10  | 11 | 12 | Angle |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| Element | 1       | 2                                                                   | 3               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   |    |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
|         |         | Ammeter switch 1<br>pole 3 current<br>transformers                  |                 | <table> <tr> <td>3</td><td></td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td></td><td></td><td>CR</td><td rowspan="4">90°</td></tr> <tr> <td>2</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>CA</td></tr> <tr> <td>1</td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>CQ</td></tr> <tr> <td>0</td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr> <td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>Angle</td></tr> <tr> <td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>                                                                                                                                                                                                                                                                                                                                 | 3           |   | X  | X   |       | X   | X  |    |       | CR    | 90° | 2    |  | X | X | X | X  | X     | X |   | CA | 1    |  |   |    | X | X | X | X | X | CQ | 0 |  |         |   | X |   | X | X | X |   | Contact | 1     | 2       | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10    | 11 | 12 | Angle | Element | 1 | 2 | 3 |  |  |       |   |  |  |  |  |  |   |  | 3 |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| 3       |         | X                                                                   | X               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | X           | X |    |     | CR    | 90° |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| 2       |         | X                                                                   | X               | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X           | X | X  |     | CA    |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| 1       |         |                                                                     |                 | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X           | X | X  | X   | CQ    |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| 0       |         |                                                                     |                 | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | X | X  | X   |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| Contact | 1       | 2                                                                   | 3               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5           | 6 | 7  | 8   | 9     | 10  | 11 | 12 | Angle |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |
| Element | 1       | 2                                                                   | 3               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |   |    |     |       |     |    |    |       |       |     |      |  |   |   |   |    |       |   |   |    |      |  |   |    |   |   |   |   |   |    |   |  |         |   |   |   |   |   |   |   |         |       |         |   |   |   |   |   |   |   |       |    |    |       |         |   |   |   |  |  |       |   |  |  |  |  |  |   |  |   |         |   |   |   |   |   |   |   |   |   |    |    |    |       |         |   |   |   |  |  |  |  |  |  |  |  |  |  |  |   |

| Multi-step change-over switches |         |          |                 |                             |             |
|---------------------------------|---------|----------|-----------------|-----------------------------|-------------|
| plate                           | diagram | function | circuit diagram | contact/element description | element no. |

[illegible]

## Cam switches

### International standards and approvals

| Country             | USA /<br>Canada                                                                                                                  | Canada                                                                                                              | Germany                                                                                                      | Switzerland                                                                                      | Denmark                                                                                          | Norway                                                                            | Sweden                                                                             | Finland                                                                             | Austria                                                                             | Great<br>Britain                 | IEC<br>International electrical<br>Commission |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------|
| Authority           | UL investigated<br>according to CSA                                                                                              | CSA International                                                                                                   | Verband Deutscher<br>Elektrotechniker                                                                        | Schweizerischer<br>Elektrotechnischer<br>Verein                                                  | Danmarks<br>Elektriske<br>Materielkontroll                                                       | Norges Elektriske<br>Materielkontroll                                             | Svenska Elektriske<br>Materielkontroll-anstalten                                   | Sähkötar-kastuskeskus                                                               | Österreichischer<br>Verband für Elektrotechnik                                      | British Standards<br>Institution |                                               |
| Mark of<br>standard |  <sup>(1)</sup><br>c <sub>UL</sub> LISTED<br>us |  <sup>(1)</sup><br>C <sub>RA</sub> |  <sup>(2)</sup><br>VDE 0660 |  <sup>(3)</sup> |  <sup>(4)</sup> |  |  |  |  | BS <sup>(3)</sup><br>EN 60947    | IEC 60947 <sup>(4)</sup>                      |
| CA012               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA016               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA020               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA025               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA032               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA040               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA050               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA063               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA100               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA200               |                                                                                                                                  | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA400               |                                                                                                                                  | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CA630               |                                                                                                                                  | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CQ012               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CQ016               | •                                                                                                                                | •                                                                                                                   | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CQ025               |                                                                                                                                  |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CQ032               |                                                                                                                                  |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CR012               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CR016               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CR020               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CR025               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CR032               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |
| CR040               | •                                                                                                                                |                                                                                                                     | +                                                                                                            | +                                                                                                | +                                                                                                | +                                                                                 | +                                                                                  | +                                                                                   | +                                                                                   | +                                | +                                             |

• Approved

+ conforms to requirements

#### Note:

1) UL Approval File E101686

2) CSA Approval File 039540-0-000

3) It is not required to bear a symbol but switches must conform to requirements.

4) IEC does not operate an approval diagram