



power contactor, AC-3, 25 A, 11 kW / 400 V, 4-pole, 24 V DC, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

|                                                                                                              |                          |
|--------------------------------------------------------------------------------------------------------------|--------------------------|
| product brand name                                                                                           | SIRIUS                   |
| product designation                                                                                          | contactor                |
| product type designation                                                                                     | 3RT25                    |
| <b>General technical data</b>                                                                                |                          |
| size of contactor                                                                                            | S0                       |
| product extension                                                                                            |                          |
| • function module for communication                                                                          | No                       |
| • auxiliary switch                                                                                           | Yes                      |
| power loss [W] for rated value of the current                                                                |                          |
| • at AC in hot operating state per pole                                                                      | 1.9 W                    |
| • without load current share typical                                                                         | 5.9 W                    |
| type of calculation of power loss depending on pole                                                          | quadratic                |
| insulation voltage                                                                                           |                          |
| • of main circuit with degree of pollution 3 rated value                                                     | 690 V                    |
| • of auxiliary circuit with degree of pollution 3 rated value                                                | 690 V                    |
| surge voltage resistance                                                                                     |                          |
| • of main circuit rated value                                                                                | 6 kV                     |
| • of auxiliary circuit rated value                                                                           | 6 kV                     |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                    |
| shock resistance at rectangular impulse                                                                      |                          |
| • at DC                                                                                                      | 10g / 5 ms, 7,5g / 10 ms |
| shock resistance with sine pulse                                                                             |                          |
| • at DC                                                                                                      | 15g / 5 ms, 10g / 10 ms  |
| mechanical service life (operating cycles)                                                                   |                          |
| • of contactor typical                                                                                       | 10 000 000               |
| • of the contactor with added electronically optimized auxiliary switch block typical                        | 5 000 000                |
| • of the contactor with added auxiliary switch block typical                                                 | 10 000 000               |
| reference code according to IEC 81346-2                                                                      | Q                        |
| Substance Prohibitance (Date)                                                                                | 10/01/2009               |
| Weight                                                                                                       | 0.661 kg                 |
| <b>Ambient conditions</b>                                                                                    |                          |
| installation altitude at height above sea level maximum                                                      | 2 000 m                  |
| ambient temperature                                                                                          |                          |
| • during operation                                                                                           | -25 ... +60 °C           |
| • during storage                                                                                             | -55 ... +80 °C           |
| relative humidity minimum                                                                                    | 10 %                     |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum                                               | 95 %                     |
| <b>Environmental footprint</b>                                                                               |                          |

|                                                                                                 |                                                           |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Environmental Product Declaration(EPD)                                                          | Yes                                                       |
| global warming potential [CO2 eq] total                                                         | 221 kg                                                    |
| global warming potential [CO2 eq] during manufacturing                                          | 2.65 kg                                                   |
| global warming potential [CO2 eq] during operation                                              | 219 kg                                                    |
| global warming potential [CO2 eq] after end of life                                             | -0.639 kg                                                 |
| <b>Main circuit</b>                                                                             |                                                           |
| <b>number of poles for main current circuit</b>                                                 | 4                                                         |
| <b>number of NO contacts for main contacts</b>                                                  | 2                                                         |
| <b>number of NC contacts for main contacts</b>                                                  | 2                                                         |
| <b>operational current</b>                                                                      |                                                           |
| • at AC-1 up to 690 V                                                                           |                                                           |
| — at ambient temperature 40 °C rated value                                                      | 40 A                                                      |
| — at ambient temperature 60 °C rated value                                                      | 35 A                                                      |
| • at AC-2 at AC-3 at 400 V                                                                      |                                                           |
| — per NO contact rated value                                                                    | 25 A                                                      |
| — per NC contact rated value                                                                    | 20 A                                                      |
| minimum cross-section in main circuit at maximum AC-1 rated value                               | 10 mm <sup>2</sup>                                        |
| <b>operational current</b>                                                                      |                                                           |
| • <b>at 1 current path at DC-1</b>                                                              |                                                           |
| — at 24 V rated value                                                                           | 35 A                                                      |
| — at 110 V rated value                                                                          | 4.5 A                                                     |
| — at 220 V rated value                                                                          | 1 A                                                       |
| — at 440 V rated value                                                                          | 0.4 A                                                     |
| • <b>with 2 current paths in series at DC-1</b>                                                 |                                                           |
| — at 24 V rated value                                                                           | 35 A                                                      |
| — at 110 V rated value                                                                          | 35 A                                                      |
| — at 220 V rated value                                                                          | 5 A                                                       |
| — at 440 V rated value                                                                          | 1 A                                                       |
| • <b>at 1 current path at DC-3 at DC-5</b>                                                      |                                                           |
| — at 24 V per NC contact rated value                                                            | 20 A                                                      |
| — at 24 V per NO contact rated value                                                            | 20 A                                                      |
| — at 110 V per NC contact rated value                                                           | 1.25 A                                                    |
| — at 110 V per NO contact rated value                                                           | 2.5 A                                                     |
| — at 220 V per NC contact rated value                                                           | 0.5 A                                                     |
| — at 220 V per NO contact rated value                                                           | 1 A                                                       |
| — at 440 V per NC contact rated value                                                           | 0.045 A                                                   |
| — at 440 V per NO contact rated value                                                           | 0.09 A                                                    |
| • <b>with 2 current paths in series at DC-3 at DC-5</b>                                         |                                                           |
| — at 24 V per NC contact rated value                                                            | 35 A                                                      |
| — at 24 V per NO contact rated value                                                            | 35 A                                                      |
| — at 110 V per NC contact rated value                                                           | 7.5 A                                                     |
| — at 110 V per NO contact rated value                                                           | 15 A                                                      |
| — at 220 V per NC contact rated value                                                           | 1.5 A                                                     |
| — at 220 V per NO contact rated value                                                           | 3 A                                                       |
| — at 440 V per NC contact rated value                                                           | 0.135 A                                                   |
| — at 440 V per NO contact rated value                                                           | 0.27 A                                                    |
| <b>operating power at AC-2 at AC-3</b>                                                          |                                                           |
| • at 230 V per NC contact rated value                                                           | 5.5 kW                                                    |
| • at 230 V per NO contact rated value                                                           | 5.5 kW                                                    |
| • at 400 V per NC contact rated value                                                           | 7.5 kW                                                    |
| • at 400 V per NO contact rated value                                                           | 11 kW                                                     |
| <b>short-time withstand current in cold operating state up to 40 °C</b>                         |                                                           |
| • limited to 1 s switching at zero current maximum                                              | 200 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 5 s switching at zero current maximum                                              | 200 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 10 s switching at zero current maximum                                             | 200 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 30 s switching at zero current maximum                                             | 128 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 60 s switching at zero current maximum                                             | 106 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</b> | 1.9 W                                                     |
| <b>power loss [W] at AC-3e at 400 V for rated value of the</b>                                  | 1.9 W                                                     |

|                                                                                       |                                                                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>operational current per conductor</b>                                              |                                                                                                                                      |
| <b>no-load switching frequency</b>                                                    |                                                                                                                                      |
| • at AC                                                                               | 5 000 1/h                                                                                                                            |
| • at DC                                                                               | 1 500 1/h                                                                                                                            |
| <b>operating frequency</b>                                                            |                                                                                                                                      |
| • at AC-1 maximum                                                                     | 1 000 1/h                                                                                                                            |
| <b>Control circuit/ Control</b>                                                       |                                                                                                                                      |
| <b>type of voltage of the control supply voltage</b>                                  | DC                                                                                                                                   |
| <b>control supply voltage at DC rated value</b>                                       | 24 V                                                                                                                                 |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b> |                                                                                                                                      |
| • initial value                                                                       | 0.8                                                                                                                                  |
| • full-scale value                                                                    | 1.1                                                                                                                                  |
| <b>closing power of magnet coil at DC</b>                                             | 5.9 W                                                                                                                                |
| <b>holding power of magnet coil at DC</b>                                             | 5.9 W                                                                                                                                |
| <b>closing delay</b>                                                                  |                                                                                                                                      |
| • at DC                                                                               | 50 ... 170 ms                                                                                                                        |
| <b>opening delay</b>                                                                  |                                                                                                                                      |
| • at DC                                                                               | 15 ... 18 ms                                                                                                                         |
| <b>arcing time</b>                                                                    | 10 ... 10 ms                                                                                                                         |
| <b>Auxiliary circuit</b>                                                              |                                                                                                                                      |
| number of NC contacts for auxiliary contacts instantaneous contact                    | 1                                                                                                                                    |
| number of NO contacts for auxiliary contacts instantaneous contact                    | 1                                                                                                                                    |
| operational current at AC-12 maximum                                                  | 10 A                                                                                                                                 |
| <b>operational current at AC-15</b>                                                   |                                                                                                                                      |
| • at 230 V rated value                                                                | 10 A                                                                                                                                 |
| • at 400 V rated value                                                                | 3 A                                                                                                                                  |
| • at 500 V rated value                                                                | 2 A                                                                                                                                  |
| • at 690 V rated value                                                                | 1 A                                                                                                                                  |
| <b>operational current at DC-12</b>                                                   |                                                                                                                                      |
| • at 24 V rated value                                                                 | 10 A                                                                                                                                 |
| • at 48 V rated value                                                                 | 6 A                                                                                                                                  |
| • at 60 V rated value                                                                 | 6 A                                                                                                                                  |
| • at 110 V rated value                                                                | 3 A                                                                                                                                  |
| • at 125 V rated value                                                                | 2 A                                                                                                                                  |
| • at 220 V rated value                                                                | 1 A                                                                                                                                  |
| • at 600 V rated value                                                                | 0.15 A                                                                                                                               |
| <b>operational current at DC-13</b>                                                   |                                                                                                                                      |
| • at 24 V rated value                                                                 | 10 A                                                                                                                                 |
| • at 48 V rated value                                                                 | 2 A                                                                                                                                  |
| • at 60 V rated value                                                                 | 2 A                                                                                                                                  |
| • at 110 V rated value                                                                | 1 A                                                                                                                                  |
| • at 125 V rated value                                                                | 0.9 A                                                                                                                                |
| • at 220 V rated value                                                                | 0.3 A                                                                                                                                |
| • at 600 V rated value                                                                | 0.1 A                                                                                                                                |
| <b>contact reliability of auxiliary contacts</b>                                      | 1 faulty switching per 100 million (17 V, 1 mA)                                                                                      |
| <b>UL/CSA ratings</b>                                                                 |                                                                                                                                      |
| <b>yielded mechanical performance [hp]</b>                                            |                                                                                                                                      |
| • for single-phase AC motor at 230 V rated value                                      | 3 hp                                                                                                                                 |
| • for 3-phase AC motor at 460/480 V rated value                                       | 15 hp                                                                                                                                |
| <b>contact rating of auxiliary contacts according to UL</b>                           | A600 / Q600                                                                                                                          |
| <b>Short-circuit protection</b>                                                       |                                                                                                                                      |
| <b>design of the fuse link</b>                                                        |                                                                                                                                      |
| • for short-circuit protection of the main circuit                                    |                                                                                                                                      |
| — with type of coordination 1 required                                                | gG: 63 A (690 V, 100 kA)                                                                                                             |
| — with type of assignment 2 required                                                  | gG: 35 A (690 V, 50 kA)                                                                                                              |
| • for short-circuit protection of the auxiliary switch required                       | fuse gG: 10 A                                                                                                                        |
| <b>Installation/ mounting/ dimensions</b>                                             |                                                                                                                                      |
| <b>mounting position</b>                                                              | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| fastening method side-by-side mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Yes                                                                                                                                                                                                                                                       |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022                                                                                                                                                                                  |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 85 mm                                                                                                                                                                                                                                                     |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 61 mm                                                                                                                                                                                                                                                     |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 107 mm                                                                                                                                                                                                                                                    |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>6 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>0 mm<br>6 mm                                                                                                                              |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                           |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals                                                                                                                                                              |
| type of connectable conductor cross-sections for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• solid</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>                         |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG cables for auxiliary contacts</li> </ul>                                                                                                                                                                                                                                                                                                                      | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14) |
| AWG number as coded connectable conductor cross section for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16 ... 8                                                                                                                                                                                                                                                  |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                           |
| <b>product function</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1</li> <li>• positively driven operation according to IEC 60947-5-1</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes<br>No                                                                                                                                                                                                                                                 |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                           |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IP20                                                                                                                                                                                                                                                      |
| <b>touch protection on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | finger-safe, for vertical contact from the front                                                                                                                                                                                                          |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                           |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                           |



[Confirmation](#)



|     |                   |                   |
|-----|-------------------|-------------------|
| EMV | Test Certificates | Marine / Shipping |
|-----|-------------------|-------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



| Marine / Shipping | other | Railway |
|-------------------|-------|---------|
|-------------------|-------|---------|



[Miscellaneous](#)

[Confirmation](#)

[Special Test Certificate](#)

| Dangerous goods | Environment |
|-----------------|-------------|
|-----------------|-------------|

[Transport Information](#)



[Environmental Confirmations](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2526-1BB40>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-1BB40>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BB40>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

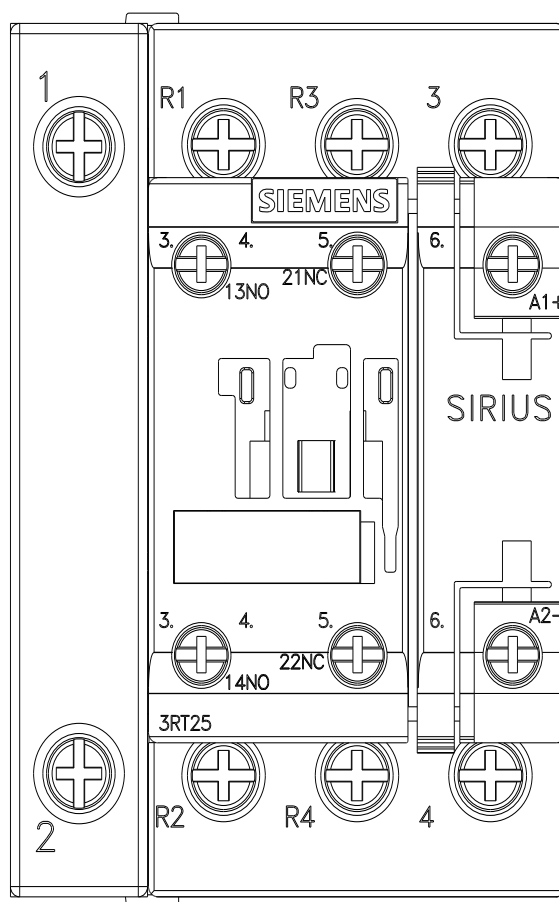
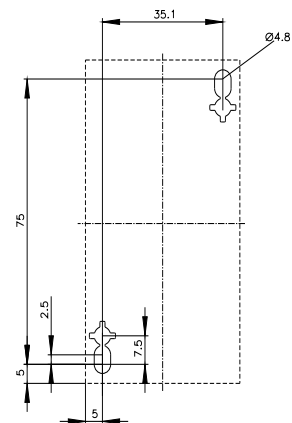
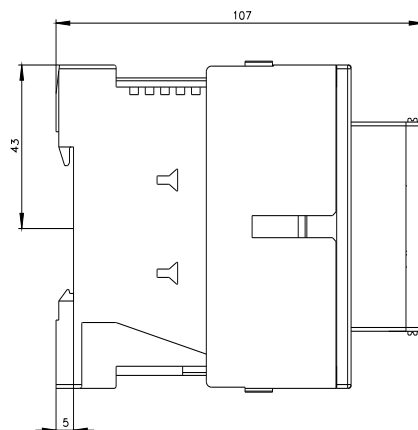
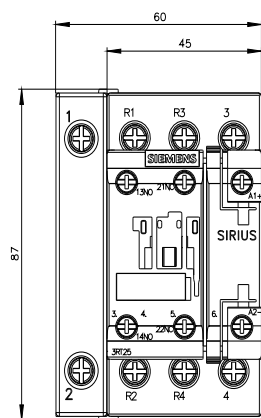
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2526-1BB40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1BB40&lang=en)

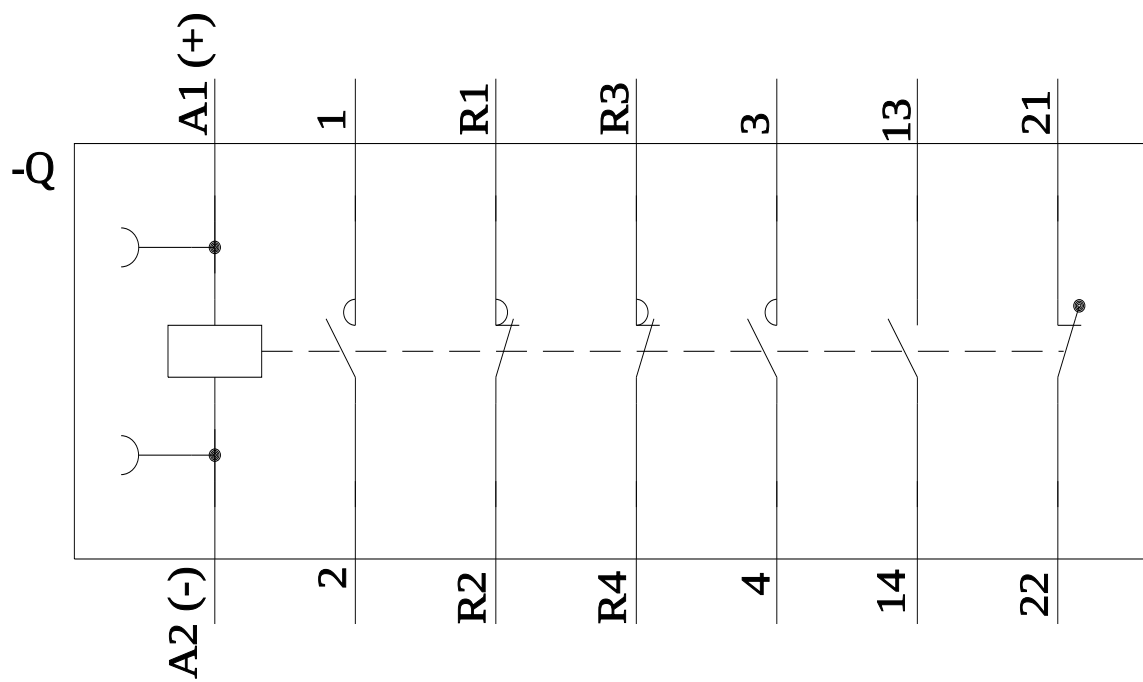
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BB40/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1BB40&objecttype=14&gridview=view1>





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