



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, spring-loaded 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 current-dependent                                                          | 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                                                                                                      | 15 g / 5 ms, 10 g / 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                |
| Net Weight                                                                                                   | 0.721 g                   |
| <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 %                      |

| Main circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| number of poles for main current circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                                                                                                                                                                                                                                                                                             |
| number of NO contacts for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2                                                                                                                                                                                                                                                                                                             |
| number of NC contacts for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2                                                                                                                                                                                                                                                                                                             |
| operational current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at AC-1 up to 690 V <ul style="list-style-type: none"> <li>at ambient temperature 40 °C rated value</li> <li>at ambient temperature 60 °C rated value</li> </ul> </li> <li>at AC-2 at AC-3 at 400 V <ul style="list-style-type: none"> <li>per NO contact rated value</li> <li>per NC contact rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 40 A<br>35 A<br>25 A<br>20 A                                                                                                                                                                                                                                                                                  |
| minimum cross-section in main circuit at maximum AC-1 rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 mm <sup>2</sup>                                                                                                                                                                                                                                                                                            |
| operational current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at 1 current path at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1 <ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul> </li> <li>at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> <li>at 24 V per NC contact rated value</li> <li>at 24 V per NO contact rated value</li> <li>at 110 V per NC contact rated value</li> <li>at 110 V per NO contact rated value</li> <li>at 220 V per NC contact rated value</li> <li>at 220 V per NO contact rated value</li> <li>at 440 V per NC contact rated value</li> <li>at 440 V per NO contact rated value</li> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>at 24 V per NC contact rated value</li> <li>at 24 V per NO contact rated value</li> <li>at 110 V per NC contact rated value</li> <li>at 110 V per NO contact rated value</li> <li>at 220 V per NC contact rated value</li> <li>at 220 V per NO contact rated value</li> <li>at 440 V per NC contact rated value</li> <li>at 440 V per NO contact rated value</li> </ul> </li> </ul> | 35 A<br>4.5 A<br>1 A<br>0.4 A<br>35 A<br>35 A<br>5 A<br>1 A<br>20 A<br>20 A<br>1.25 A<br>2.5 A<br>0.5 A<br>1 A<br>0.045 A<br>0.09 A<br>35 A<br>35 A<br>7.5 A<br>15 A<br>1.5 A<br>3 A<br>0.135 A<br>0.27 A                                                                                                     |
| operating power at AC-2 at AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at 230 V per NC contact rated value</li> <li>at 230 V per NO contact rated value</li> <li>at 400 V per NC contact rated value</li> <li>at 400 V per NO contact rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.5 kW<br>5.5 kW<br>7.5 kW<br>11 kW                                                                                                                                                                                                                                                                           |
| short-time withstand current in cold operating state up to 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200 A; Use minimum cross-section acc. to AC-1 rated value<br>200 A; Use minimum cross-section acc. to AC-1 rated value<br>200 A; Use minimum cross-section acc. to AC-1 rated value<br>128 A; Use minimum cross-section acc. to AC-1 rated value<br>106 A; Use minimum cross-section acc. to AC-1 rated value |
| power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.9 W                                                                                                                                                                                                                                                                                                         |
| power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.9 W                                                                                                                                                                                                                                                                                                         |
| no-load switching frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>at AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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 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>UL File Number (CCN)</b>                                                                               | E31519 (NLDX, NLDX7)                            |
| <b>Short-circuit protection</b>                                                                           |                                                 |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA                  |
| <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 coordination 2 required                                                                    | gG: 35 A (690 V, 50 kA)                         |
| • for short-circuit protection of the auxiliary switch required                                           | gG: 10 A (690 V, 1 kA)                          |
| <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 |
| <b>fastening method side-by-side mounting</b>                                         | Yes                                                                                                                                  |
| <b>fastening method</b>                                                               | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022                                                             |
| <b>height</b>                                                                         | 102 mm                                                                                                                               |
| <b>width</b>                                                                          | 61 mm                                                                                                                                |
| <b>depth</b>                                                                          | 107 mm                                                                                                                               |
| <b>required spacing</b>                                                               |                                                                                                                                      |
| • with side-by-side mounting                                                          |                                                                                                                                      |
| — forwards                                                                            | 0 mm                                                                                                                                 |
| — backwards                                                                           | 0 mm                                                                                                                                 |
| — upwards                                                                             | 0 mm                                                                                                                                 |
| — downwards                                                                           | 0 mm                                                                                                                                 |
| — at the side                                                                         | 0 mm                                                                                                                                 |
| • for grounded parts                                                                  |                                                                                                                                      |
| — forwards                                                                            | 0 mm                                                                                                                                 |
| — backwards                                                                           | 0 mm                                                                                                                                 |
| — upwards                                                                             | 0 mm                                                                                                                                 |
| — at the side                                                                         | 6 mm                                                                                                                                 |
| — downwards                                                                           | 0 mm                                                                                                                                 |
| • for live parts                                                                      |                                                                                                                                      |
| — forwards                                                                            | 0 mm                                                                                                                                 |
| — backwards                                                                           | 0 mm                                                                                                                                 |
| — upwards                                                                             | 0 mm                                                                                                                                 |
| — downwards                                                                           | 0 mm                                                                                                                                 |
| — at the side                                                                         | 6 mm                                                                                                                                 |
| <b>Connections/ Terminals</b>                                                         |                                                                                                                                      |
| <b>type of electrical connection</b>                                                  |                                                                                                                                      |
| • for main current circuit                                                            | spring-loaded terminals                                                                                                              |
| • for auxiliary and control circuit                                                   | spring-loaded terminals                                                                                                              |
| • at contactor for auxiliary contacts                                                 | Spring-type terminals                                                                                                                |
| • of magnet coil                                                                      | Spring-type terminals                                                                                                                |
| <b>type of connectable conductor cross-sections</b>                                   |                                                                                                                                      |
| • for main contacts                                                                   |                                                                                                                                      |
| — solid                                                                               | 2x (1 ... 10 mm²)                                                                                                                    |
| — solid or stranded                                                                   | 2x (1 ... 10 mm²)                                                                                                                    |
| — finely stranded with core end processing                                            | 2x (1 ... 6 mm²)                                                                                                                     |
| — finely stranded without core end processing                                         | 2x (1 ... 6 mm²)                                                                                                                     |
| • for AWG cables for main contacts                                                    | 2x (18 ... 8)                                                                                                                        |
| <b>type of connectable conductor cross-sections</b>                                   |                                                                                                                                      |
| • for auxiliary contacts                                                              |                                                                                                                                      |
| — solid                                                                               | 2x (0.5 ... 2.5 mm²)                                                                                                                 |
| — solid or stranded                                                                   | 2x (0.5 ... 2.5 mm²)                                                                                                                 |
| — finely stranded with core end processing                                            | 2x (0.5 ... 1.5 mm²)                                                                                                                 |
| — finely stranded without core end processing                                         | 2x (0.5 ... 1.5 mm²)                                                                                                                 |
| • for AWG cables for auxiliary contacts                                               | 2x (20 ... 14)                                                                                                                       |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>      | 18 ... 8                                                                                                                             |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b> | 20 ... 14                                                                                                                            |
| <b>Safety related data</b>                                                            |                                                                                                                                      |
| <b>product function</b>                                                               |                                                                                                                                      |
| • mirror contact according to IEC 60947-4-1                                           | Yes                                                                                                                                  |
| • positively driven operation according to IEC 60947-5-1                              | 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>Environmental Product Declaration</b>                                              |                                                                                                                                      |
| • global warming potential [CO2 eq] / during manufacturing                            | 2.65 kg                                                                                                                              |

- global warming potential [CO2 eq] / during operation
- global warming potential [CO2 eq] / after end of life
- global warming potential [CO2 eq] / total

219 kg  
-0.639 kg  
221 kg

#### Environment

#### General Product Approval

[Environmental Confirmations](#)



#### General Product Approval

#### EMV

#### Test Certificates

#### Maritime application



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



#### Maritime application



#### other

#### Railway

#### Dangerous goods

[Confirmation](#)

[Confirmation](#)



[Miscellaneous](#)

[Special Test Certificate](#)

[Transport Information](#)

#### Further information

##### Information on the packaging

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

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### 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=3RT2526-2BB40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2BB40>

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

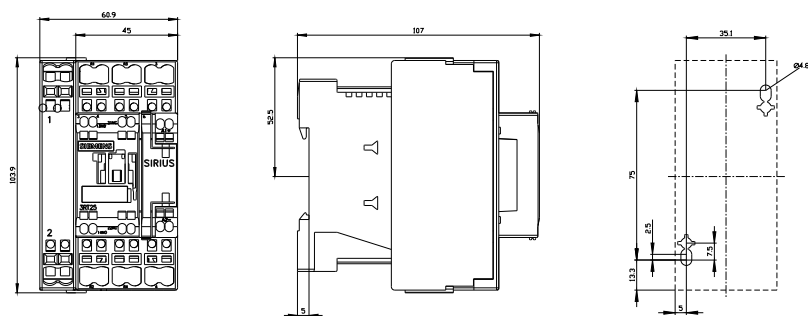
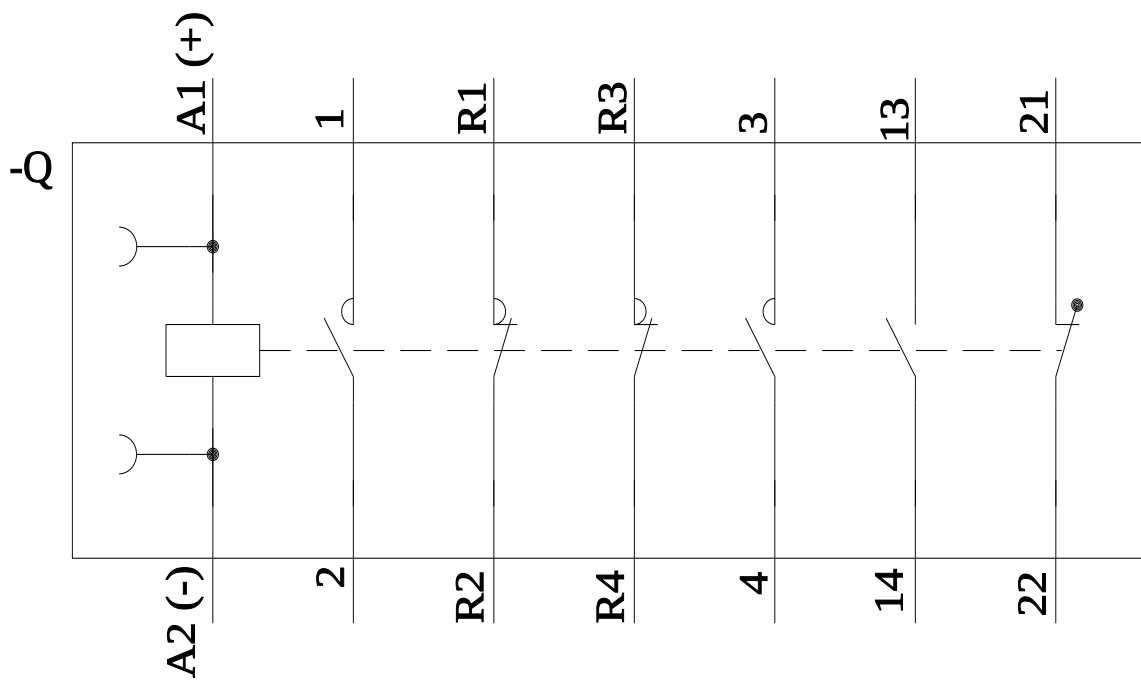
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2526-2BB40&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-2BB40&lang=en)

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-2BB40>

##### Characteristic curves

[https://curves.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)



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