



power contactor, AC-3, 25 A, 11 kW / 400 V, 4-pole, 24 V AC, 50/60 Hz, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

|  |                            |
|--|----------------------------|
| <b>product brand name</b>  | SIRIUS                     |
| <b>product designation</b>   | contactor                  |
| <b>product type designation</b>  | 3RT25                      |
| <b>General technical data</b>  |                            |
| <b>size of contactor</b>   | S0                         |
| <b>product extension</b>   |                            |
| • function module for communication  | No                         |
| • auxiliary switch   | Yes                        |
| <b>power loss [W] for rated value of the current</b>   |                            |
| • at AC in hot operating state per pole  | 1.9 W                      |
| • without load current share typical   | 2.7 W                      |
| <b>type of calculation of power loss depending on pole</b>   | quadratic                  |
| <b>insulation voltage</b>  |                            |
| • of main circuit with degree of pollution 3 rated value   | 690 V                      |
| • of auxiliary circuit with degree of pollution 3 rated value  | 690 V                      |
| <b>surge voltage resistance</b>  |                            |
| • 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                      |
| <b>shock resistance at rectangular impulse</b>   |                            |
| • at AC  | 8,3g / 5 ms, 5,3g / 10 ms  |
| <b>shock resistance with sine pulse</b>  |                            |
| • at AC  | 13,5g / 5 ms, 8,3g / 10 ms |
| <b>mechanical service life (operating cycles)</b>  |                            |
| • 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                 |
| <b>reference code according to IEC 81346-2</b>   | Q                          |
| <b>Substance Prohibitance (Date)</b>   | 10/01/2009                 |
| <b>Weight</b>  | 0.546 kg                   |
| <b>Ambient conditions</b>  |                            |
| installation altitude at height above sea level maximum  | 2 000 m                    |
| <b>ambient temperature</b>   |                            |
| • during operation   | -25 ... +60 °C             |
| • during storage   | -55 ... +80 °C             |
| <b>relative humidity minimum</b>   | 10 %                       |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>  | 95 %                       |
| <b>Environmental footprint</b>   |                            |

|  |   |
|--|---|
| Environmental Product Declaration(EPD)   | Yes   |
| global warming potential [CO2 eq] total  | 74.2 kg   |
| global warming potential [CO2 eq] during manufacturing   | 1.9 kg  |
| global warming potential [CO2 eq] during operation   | 72.4 kg   |
| global warming potential [CO2 eq] after end of life  | -0.117 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>   |   |
| <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>  | <br>40 A<br>35 A<br><br>25 A<br>25 A  |
| minimum cross-section in main circuit at maximum AC-1 rated value  | 10 mm <sup>2</sup>  |
| <b>operational current</b>   |   |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-1</b> <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>● <b>with 2 current paths in series at DC-1</b> <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>● <b>at 1 current path at DC-3 at DC-5</b> <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>● <b>with 2 current paths in series at DC-3 at DC-5</b> <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> | <br>35 A<br>4.5 A<br>1 A<br>0.4 A<br><br>35 A<br>35 A<br>5 A<br>1 A<br><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><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>   | <br>5.5 kW<br>5.5 kW<br>11 kW<br>11 kW  |
| <b>short-time withstand current in cold operating state up to 40 °C</b>  |   |
| <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>  | <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>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 |
| <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>                                  | AC           |
| <b>control supply voltage at AC</b>   |              |
| • at 50 Hz rated value  | 24 V         |
| • at 60 Hz rated value  | 24 V         |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |              |
| • at 50 Hz  | 0.8 ... 1.1  |
| • at 60 Hz  | 0.85 ... 1.1 |
| <b>apparent pick-up power of magnet coil at AC</b>                                    | 81 VA        |
| • at 50 Hz  | 81 VA        |
| • at 60 Hz  | 79 VA        |
| <b>inductive power factor with closing power of the coil</b>                          | 0.72         |
| • at 50 Hz  | 0.72         |
| • at 60 Hz  | 0.74         |
| <b>apparent holding power of magnet coil at AC</b>                                    | 10.5 VA      |
| • at 50 Hz  | 10.5 VA      |
| • at 60 Hz  | 8.5 VA       |
| <b>inductive power factor with the holding power of the coil</b>                      | 0.25         |
| • at 50 Hz  | 0.25         |
| • at 60 Hz  | 0.28         |
| <b>closing delay</b>  |              |
| • at AC   | 8 ... 40 ms  |
| <b>opening delay</b>  |              |
| • at AC   | 4 ... 16 ms  |
| <b>arcing time</b>  | 10 ... 10 ms |
| <b>residual current of the electronics for control with signal &lt;0&gt;</b>          |              |
| • at AC at 230 V maximum permissible  | 0.007 A      |
| <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        |

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|--|---|
| <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>   |   |
| <ul style="list-style-type: none"> <li>● for single-phase AC motor at 230 V rated value</li> <li>● for 3-phase AC motor at 460/480 V rated value</li> </ul>  | <p>3 hp</p> <p>15 hp</p>  |
| <b>contact rating of auxiliary contacts according to UL</b>  | A600 / Q600   |
| <b>Category Control 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>   |   |
| <ul style="list-style-type: none"> <li>● for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of coordination 2 required</li> </ul> </li> <li>● for short-circuit protection of the auxiliary switch required</li> </ul>  | <p>gG: 63 A (690 V, 100 kA)</p> <p>gG: 35 A (690 V, 50 kA)</p> <p>gG: 10 A (690 V, 1 kA)</p>  |
| <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>  | 102 mm  |
| <b>width</b>   | 61 mm   |
| <b>depth</b>   | 97 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> | <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>6 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>6 mm</p> |
| <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>   | <p>spring-loaded terminals</p> <p>spring-loaded terminals</p> <p>Spring-type terminals</p> <p>Spring-type terminals</p>   |
| <b>type of connectable conductor cross-sections</b>  |   |
| <ul style="list-style-type: none"> <li>● 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> <li>— finely stranded without core end processing</li> </ul> </li> <li>● for AWG cables for main contacts</li> </ul>   | <p>2x (1 ... 10 mm<sup>2</sup>)</p> <p>2x (1 ... 10 mm<sup>2</sup>)</p> <p>2x (1 ... 6 mm<sup>2</sup>)</p> <p>2x (1 ... 6 mm<sup>2</sup>)</p> <p>2x (18 ... 8)</p>      |
| <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> <li>— finely stranded without core end processing</li> </ul> </li> </ul>  | <p>2x (0.5 ... 2.5 mm<sup>2</sup>)</p> <p>2x (0.5 ... 2.5 mm<sup>2</sup>)</p> <p>2x (0.5 ... 1.5 mm<sup>2</sup>)</p> <p>2x (0.5 ... 1.5 mm<sup>2</sup>)</p>             |

|   |                |
|---|----------------|
| • 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      |

### Safety related data

|  |     |
|--|-----|
| <b>product function</b>                                  |     |
| • mirror contact according to IEC 60947-4-1              | Yes |
| • positively driven operation according to IEC 60947-5-1 | No  |

### Electrical Safety

|  |  |
|--|--|
| <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 |

### Approvals Certificates

|                                 |     |
|---------------------------------|-----|
| <b>General Product Approval</b> | EMV |
|---------------------------------|-----|



### Test Certificates

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <a href="#">Special Test Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> |  |  |  |  |
|--|--|--|--|--|--|

### Maritime application

|  |  |  |                               |  |                              |
|--|--|--|-------------------------------|--|------------------------------|
|  |  |  | <a href="#">Miscellaneous</a> |  | <a href="#">Confirmation</a> |
|--|--|--|-------------------------------|--|------------------------------|

### Railway

|  |  |   |
|--|--|---|
| <a href="#">Special Test Certificate</a> |  | <a href="#">Environmental Confirmations</a> |
|--|--|---|

### 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=3RT2526-2AC20>

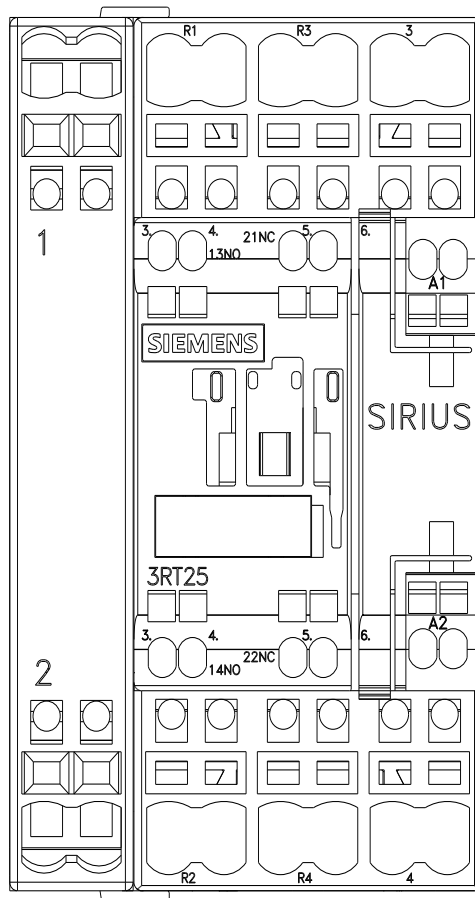
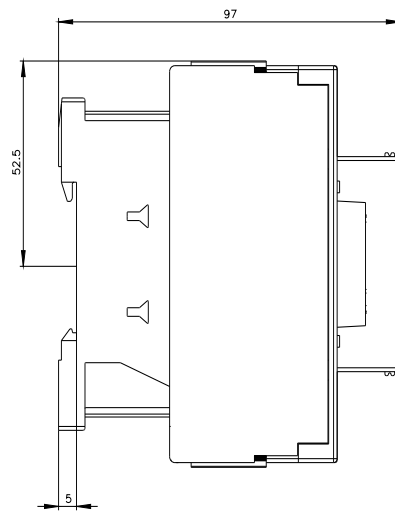
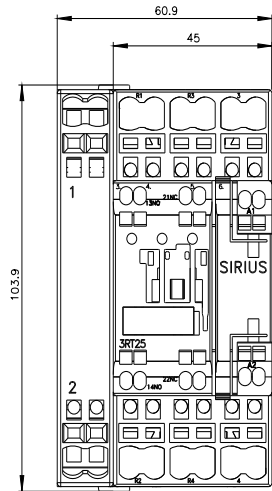
Cax online generator  
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-2AC20>

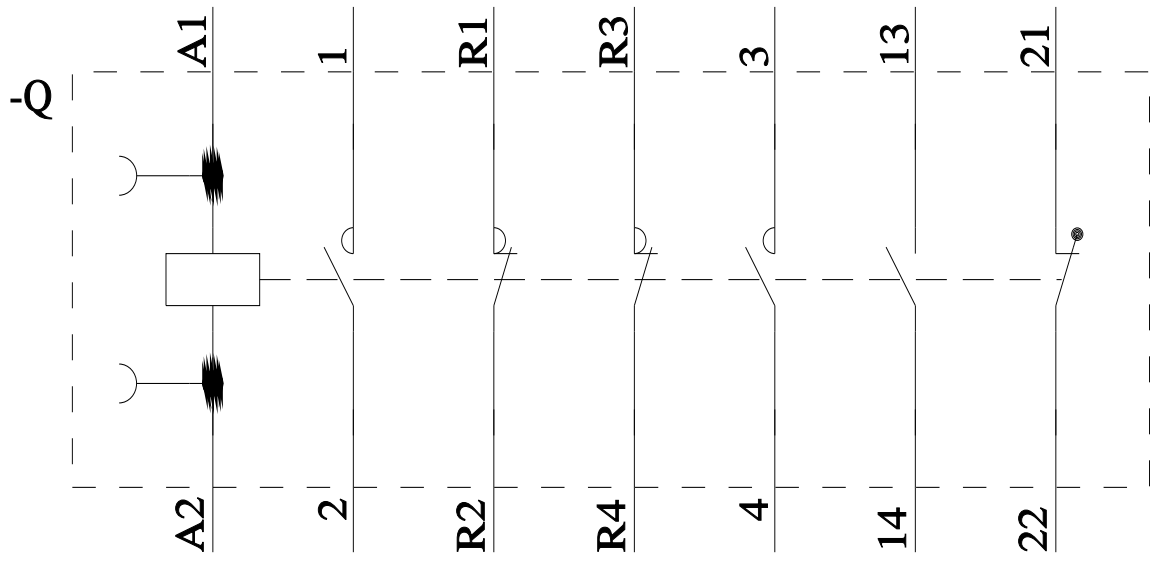
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AC20>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2526-2AC20&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-2AC20&lang=en)

Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current  
<https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AC20/char>

Further characteristics (e.g. electrical endurance, switching frequency)  
<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-2AC20&objecttype=14&gridview=view1>





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