



Circuit breaker size S00 for transformer protection A-release 2.2...3.2 A N release 65 A screw terminal Standard switching capacity

|                                                                 |                            |
|-----------------------------------------------------------------|----------------------------|
| product brand name                                              | SIRIUS                     |
| product designation                                             | Circuit breaker            |
| design of the product                                           | For transformer protection |
| product type designation                                        | 3RV2                       |
| <b>General technical data</b>                                   |                            |
| size of the circuit-breaker                                     | S00                        |
| size of contactor can be combined company-specific              | S00, S0                    |
| product extension auxiliary switch                              | Yes                        |
| power loss [W] for rated value of the current                   |                            |
| • at AC in hot operating state                                  | 7.25 W                     |
| • at AC in hot operating state per pole                         | 2.4 W                      |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V                      |
| surge voltage resistance rated value                            | 6 kV                       |
| shock resistance according to IEC 60068-2-27                    | 25g / 11 ms                |
| mechanical service life (operating cycles)                      |                            |
| • of the main contacts typical                                  | 100 000                    |
| • of auxiliary contacts typical                                 | 100 000                    |
| electrical endurance (operating cycles) typical                 | 100 000                    |
| reference code according to IEC 81346-2                         | Q                          |
| Substance Prohibition (Date)                                    | 10/01/2009                 |
| SVHC substance name                                             | Lead - 7439-92-1           |
| Net Weight                                                      | 351 g                      |
| <b>Ambient conditions</b>                                       |                            |
| installation altitude at height above sea level maximum         | 2 000 m                    |
| ambient temperature                                             |                            |
| • during operation                                              | -20 ... +60 °C             |
| • during storage                                                | -50 ... +80 °C             |
| • during transport                                              | -50 ... +80 °C             |
| relative humidity during operation                              | 10 ... 95 %                |
| <b>Environmental footprint</b>                                  |                            |
| Environmental Product Declaration (EPD)                         | Yes                        |
| global warming potential [CO2 eq] total                         | 74.698 kg                  |
| global warming potential [CO2 eq] during manufacturing          | 1.98 kg                    |
| global warming potential [CO2 eq] during sales                  | 0.134 kg                   |
| global warming potential [CO2 eq] during operation              | 72.7 kg                    |
| global warming potential [CO2 eq] after end of life             | -0.116 kg                  |

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| Siemens Eco Profile (SEP)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Siemens EcoTech                                                                  |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                  |
| <b>number of poles for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                                                                                |
| <b>adjustable current response value current of the current-dependent overload release</b>                                                                                                                                                                                                                                                                                                                                                                                             | 2.2 ... 3.2 A                                                                    |
| <b>type of voltage for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | AC                                                                               |
| <b>operating voltage</b> <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> </ul>                                                                                                                                                                                                                                                                                                                | 20 ... 690 V<br>690 V<br>690 V                                                   |
| <b>operating frequency rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50 ... 60 Hz                                                                     |
| <b>operational current rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.2 A                                                                            |
| <b>operational current</b> <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> <li>• at AC-3e at 400 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                   | 3.2 A<br>3.2 A                                                                   |
| <b>operating power</b> <ul style="list-style-type: none"> <li>• at AC-3               <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> <li>• at AC-3e               <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul> | 0.6 kW<br>1.1 kW<br>1.5 kW<br>2.2 kW<br><br>0.6 kW<br>1.1 kW<br>1.5 kW<br>2.2 kW |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>• at AC-3 maximum</li> <li>• at AC-3e maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                             | 15 1/h<br>15 1/h                                                                 |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                  |
| <b>type of voltage for auxiliary and control circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | AC/DC                                                                            |
| <b>number of NC contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0                                                                                |
| <b>number of NO contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0                                                                                |
| <b>number of CO contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0                                                                                |
| <b>Protective and monitoring functions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  |
| <b>product function</b> <ul style="list-style-type: none"> <li>• ground fault detection</li> <li>• phase failure detection</li> </ul>                                                                                                                                                                                                                                                                                                                                                  | No<br>Yes                                                                        |
| <b>trip class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CLASS 10                                                                         |
| <b>design of the overload release</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | thermal                                                                          |
| <b>maximum short-circuit current breaking capacity (Icu)</b> <ul style="list-style-type: none"> <li>• at AC at 240 V rated value</li> <li>• at AC at 400 V rated value</li> <li>• at AC at 500 V rated value</li> <li>• at AC at 690 V rated value</li> </ul>                                                                                                                                                                                                                          | 100 kA<br>100 kA<br>100 kA<br>10 kA                                              |
| <b>operating short-circuit current breaking capacity (Ics) at AC</b> <ul style="list-style-type: none"> <li>• at 240 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                                                          | 100 kA<br>100 kA<br>100 kA<br>10 kA                                              |
| <b>response value current of instantaneous short-circuit trip unit</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | 65 A                                                                             |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |
| <b>full-load current (FLA) for 3-phase AC motor</b> <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                           | 3.2 A<br>3.2 A                                                                   |
| <b>yielded mechanical performance [hp]</b> <ul style="list-style-type: none"> <li>• for single-phase AC motor               <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                   | <br>0.1 hp<br>0.25 hp                                                            |

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| <ul style="list-style-type: none"> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.5 hp<br>0.75 hp<br>2 hp<br>2 hp                                                                                                                                                                |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                  |
| <b>product function short circuit protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                                                                                                                                                                              |
| <b>design of the short-circuit trip</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | magnetic                                                                                                                                                                                         |
| <b>design of the fuse link for IT network for short-circuit protection of the main circuit</b> <ul style="list-style-type: none"> <li>• at 400 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | gL/gG 25 A<br>gL/gG 32 A<br>gL/gG 25 A                                                                                                                                                           |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                  |
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | any                                                                                                                                                                                              |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                                                                                                                         |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 97 mm                                                                                                                                                                                            |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45 mm                                                                                                                                                                                            |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 97 mm                                                                                                                                                                                            |
| <b>required spacing</b> <ul style="list-style-type: none"> <li>• with side-by-side mounting at the side</li> <li>• for grounded parts at 400 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for live parts at 400 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts at 500 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for live parts at 500 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts at 690 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> </ul> </li> <li>• for live parts at 690 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> </ul> </li> </ul> | 0 mm<br><br><br>30 mm<br>30 mm<br>9 mm<br><br>30 mm<br>30 mm<br>9 mm<br><br>30 mm<br>30 mm<br>9 mm<br><br>50 mm<br>50 mm<br>0 mm<br>30 mm<br>0 mm<br><br>50 mm<br>50 mm<br>0 mm<br>30 mm<br>0 mm |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                  |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | screw-type terminals                                                                                                                                                                             |
| <b>arrangement of electrical connectors for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Top and bottom                                                                                                                                                                                   |
| <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 or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG cables for main contacts</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 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 (18 ... 14), 2x 12                                       |

|                                                                      |                                                  |
|----------------------------------------------------------------------|--------------------------------------------------|
| <b>tightening torque</b>                                             |                                                  |
| • for main contacts with screw-type terminals                        | 0.8 ... 1.2 N·m                                  |
| <b>design of screwdriver shaft</b>                                   | Diameter 5 to 6 mm                               |
| <b>size of the screwdriver tip</b>                                   | Pozidriv size 2                                  |
| <b>design of the thread of the connection screw</b>                  |                                                  |
| • for main contacts                                                  | M3                                               |
| <b>Safety related data</b>                                           |                                                  |
| product function suitable for safety function                        | Yes                                              |
| <b>suitability for use</b>                                           |                                                  |
| • safety-related switching on                                        | No                                               |
| • safety-related switching OFF                                       | Yes                                              |
| <b>service life maximum</b>                                          | 10 a                                             |
| <b>test wear-related service life necessary</b>                      | Yes                                              |
| <b>proportion of dangerous failures</b>                              |                                                  |
| • with low demand rate according to SN 31920                         | 40 %                                             |
| • with high demand rate according to SN 31920                        | 50 %                                             |
| <b>B10 value with high demand rate according to SN 31920</b>         | 5 000                                            |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b> | 50 FIT                                           |
| <b>ISO 13849</b>                                                     |                                                  |
| <b>device type according to ISO 13849-1</b>                          | 3                                                |
| <b>overdimensioning according to ISO 13849-2 necessary</b>           | Yes                                              |
| <b>IEC 61508</b>                                                     |                                                  |
| <b>safety device type according to IEC 61508-2</b>                   | Type A                                           |
| <b>T1 value</b>                                                      |                                                  |
| • for proof test interval or service life according to IEC 61508     | 10 a                                             |
| <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>Display</b>                                                       |                                                  |
| display version for switching status                                 | Handle                                           |
| <b>Approvals Certificates</b>                                        |                                                  |
| <b>General Product Approval</b>                                      |                                                  |



|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>General Product Approval</b>                                                     | <b>Test Certificates</b>                                                            | <b>Maritime application</b>                                                         |                                                                                     |                                                                                       |                                                                                       |
|  | <a href="#">Special Test Certificate</a>                                            | <a href="#">Type Test Certificates/Test Report</a>                                  |  |  |  |
| <b>Maritime application</b>                                                         | <b>other</b>                                                                        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|  |  |  | <a href="#">Miscellaneous</a>                                                       |  | <a href="#">Confirmation</a>                                                          |
| <b>other</b>                                                                        | <b>Railway</b>                                                                      | <b>Environment</b>                                                                  |                                                                                     |                                                                                       |                                                                                       |



#### 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=3RV2411-1DA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1DA10>

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

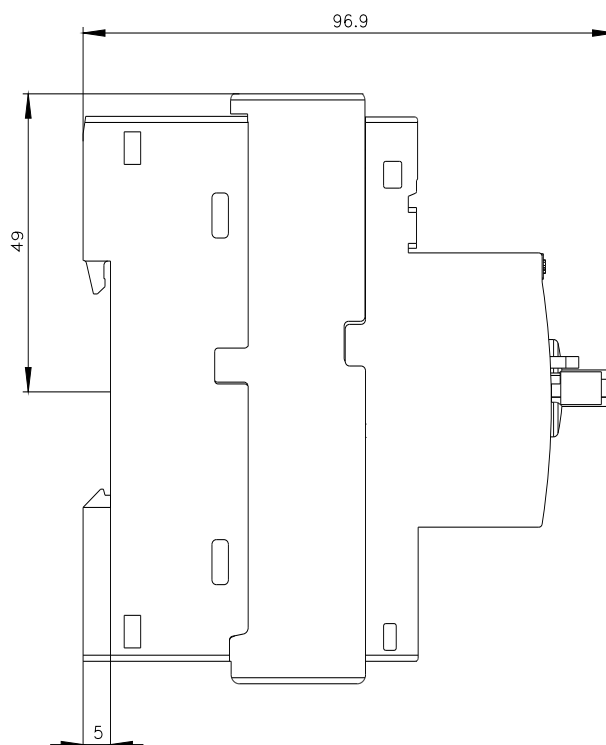
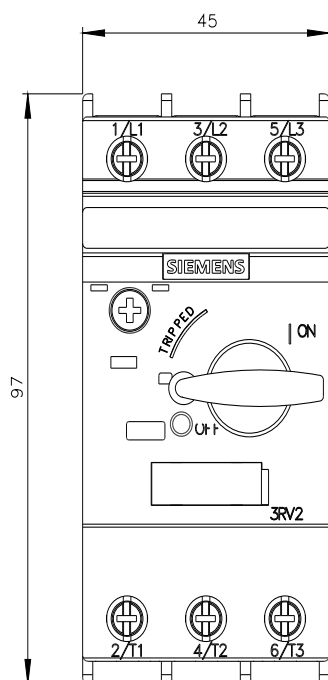
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2411-1DA10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1DA10&lang=en)

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1DA10>

**Characteristic curves**

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





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